

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	nAPP2200758512
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Solaris Water, LLC	OGRID 371643
Contact Name Rob Kirk	Contact Telephone O 575- 300-5155 C 469-978-5620
Contact email rob.kirk@ariswater.com	Incident # (assigned by OCD)
Contact mailing address 3305 Boyd Drive, Carlsbad, NM 88220	

Location of Release Source

Latitude 32.06168 Longitude -103.97983
(NAD 83 in decimal degrees to 5 decimal places)

Site Name JR Horz Booster Pump	Site Type Booster Pump
Date Release Discovered 01/07/2021	API# (if applicable)

Unit Letter	Section	Township	Range	County
D	10	26S	29E	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) 93.5	Volume Recovered (bbls) 48
	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

At this booster pump station, the pump was reported to be recirculating water and the temperature dropped below freezing. The pump head failed and produced water was released.

Incident ID	nAPP2200758512
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? 93.5 BBLs of Produced Water was released.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Rob Kirk notified by NMOCD Web Portal, emails to Aretsia office of OCD	

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: Rob Kirk	Title: VP & GM, HSE & Compliance
Signature: 	Date: 01/20/2023
email: rob.kirk@ariswater.com	Telephone: O 575- 300-5155 C 469-978-5620
<u>OCD Only</u>	
Received by: Jocelyn Harimon	Date: 01/20/2023

Incident ID	nAPP2200758512
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>78</u> (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.

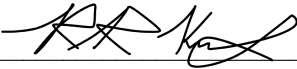
- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile 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	nAPP2200758512
District RP	
Facility ID	
Application ID	

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

Printed Name: Rob Kirk Title: VP & GM, HSE & Compliance
Signature:  Date: 01/20/2023
email: rob.kirk@ariswater.com Telephone: O 575- 300-5155 C 469-978-5620

OCD Only

Received by: Jocelyn Harimon Date: 01/20/2023

Incident ID	nAPP2200758512
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

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

Printed Name: Rob Kirk Title: VP & GM, HSE & Compliance
Signature:  Date: 01/20/2023
email: rob.kirk@ariswater.com Telephone: O 575- 300-5155 C 469-978-5620

OCD Only

Received by: Jocelyn Harimon Date: 01/20/2023

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

Signature: _____ Date: _____

Aris Midstream LLC
JR Horz Booster Pump
D, S10, T26S, R29E
NMOCD Reference # nAPP2200758512
Terracon Project # AR227020



Release Investigation and Remedial Action Plan

Attn: Mr. Rob Kirk
P: 469-978-5620
E: rob.kirk@ariswater.com

RE: Release Investigation and Remedial Action Plan
JR Horz Booster Pump
Unit D, Section 10, Township 26 South, Range 29 East
Eddy County, New Mexico
Terracon Project No. AR227020

Dear Mr. Kirk,

Terracon Consultants, Inc. (Terracon) is pleased to submit our Release Investigation and Remedial Action Plan (RAP) for the site referenced above. The Release Investigation and RAP were 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. Based on the release investigation assessment, Terracon recommends the following actions be taken to achieve protection of fresh water and the environment in accordance with NMOCD regulations. Terracon developed the Release Investigation and RAP in general accordance with our scope of work (AR227020) dated February 22, 2022.

Action Items

Completed Actions

- 1) The release has been horizontally and vertically delineated.
- 2) Background samples have been collected up gradient of the release location.
- 3) A geophysical survey was completed to evaluate the conductivity of shallow soil conditions at the sites so that measurements could be qualitatively related to chlorides.
- 4) The depth of water at the site is presumed to be 75 feet below grade surface (bgs).
- 5) Subsurface hazards at the site have been identified in preparation of future subsurface work.

Anticipated Actions

- 1) An exploratory boring will be installed at the site to assess the depth of groundwater at the site.
- 2) Remediation at the site will take place in 3 phases. The structured approach of the remedial plan is to reduce the potential for erosion, and to reduce the duration of pipeline exposure.
- 3) Floor and wall samples will be collected every 200 sq. ft.
- 4) All soils exhumed from surface to 4 ft. bgs. will be stockpiled on plastic liners, with berms to reduce the potential loss of impacted soils. Terracon will dispose of soils at a permitted facility as O&G exempted waste.

Aris Midstream LLC
JR Horz Booster Pump
D, S10, T26S, R29E
NMOCD Reference # nAPP2200758512



Variance Requested

- 1) This site sits on a hillside that is subject to erosion, with that in mind we will be requesting a variance to terminate excavation depths at 4 ft. bgs., and to install a liner at that depth to protect freshwater and groundwater.
- 2) Considering the dangers associated with excavation around the high-pressure gas pipelines in the area and the erosion potential in this area, Terracon recommends terminating remedial efforts at 4 ft. bg. Additionally, all impacted material in place directly below and around the high-pressure lines will be remediated at time of abandonment.
- 3) Terracon will also utilize gypsum to treat the remaining soils below 4 ft. bgs.
- 4) Considering the inflation of time needed to execute site investigations and remediation work in southeast New Mexico and the size and scope of this project in this sensitive area, Terracon is requesting a 6-month timeline to complete this remediation.

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

Sincerely,
Terracon Consultants, Inc.



Joseph Guesnier
Senior Staff Scientist
Office Manager – Carlsbad



Erin Loyd, P.G. (TX)
Principal
Office Manager – Lubbock

TABLE OF CONTENTS

Incident Information	2
General Site Characteristics	3
Regulatory Framework and Response Action Levels	4
Soil Investigation Discussion	5
Background Data Evaluation	5
Release Margins Data Evaluation	5
Release Investigation Data Summary	7
Soil Management Plan	7

Attachments:

Appendix A – Exhibits

- Exhibit 1 – Topo Map
- Exhibit 2 – Site Map
- Exhibit 3 – Chloride Concentration Map (1/19/2022)
- Exhibit 4 – Supplemental Investigation Map (3/22/22-3/23/22)
- Exhibit 5 – Boring Investigation Map (6/16/2022)
- Exhibit 6 – NMOSE POD Location Map
- Exhibit 7 – Cave Karst Public UCP Map

Appendix B – Tables, Procedures, and Figures

- 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 – Waste Manifest

Appendix F – Terracon Standard of Care, Limitation, and Reliance

Airs Midstream LLC
JR Horz Booster Pump
D, S10, T26S, R29E
NMOCD Reference # nAPP2200758512



Incident Information

The following table provides detailed information regarding the January 7, 2022 release at the JR Horz booster pump site in Eddy County, New Mexico:

Required Information	Site and Release information	
Responsible party	The facility is operated by Arris Midstream LLC	
Local contact	Contact: Mr. Rob Kirk	P: (469)978-5620 E: rob.kirk@ariswater.com
NMOCD Notification	Notice of the release was provided to the NMOCD online portal by Rob Kirk (Aris) on January 7, 2022.	
Time of incident	January 7, 2022	
Discharge event	The cause of the produced water release at the site was identified as equipment failure at a booster pump. The path of the release is illustrated in Figure 2 of Appendix A	
Type of discharge	The documented fluids release occurred at a pipeline right-of-way and followed the natural topography travelling from the pipeline right-of-way on to native pastureland and terminating before it reached pipeline road.	
Quantity of spilled material	Total Fluids: 94 bbls	Produced Water: 94 bbls Total Petroleum Hydrocarbons: 0 bbls
Immediate corrective actions	The booster pump was turned off and repaired, while vacuum trucks were utilized to recover all standing water. The recovered water totaled 48 bbls.	

Airs Midstream LLC
JR Horz Booster Pump
D, S10, T26S, R29E
NMOCD Reference # nAPP2200758512



General Site Characteristics	
Remedial Determining Information	Site Ranking Characteristics
Facility description Site Map – (Exhibit 2 in Appendix A)	The JR Horz is in Eddy County, New Mexico. It is an approximate 3-acre area located within Unit D, Section 10, Township 26 South, Range 29 East, approximately 12.4 miles southeast of Malaga, New Mexico. The site is predominantly pipeline rights-of-way and undeveloped native pastureland.
Site characteristics Topographic Map – (Exhibit 1 in Appendix A)	Relatively flat with drainage following the native ground surface; very gently sloping to the northeast.
Groundwater NMOSE POD Location Map – (Exhibit 6 in Appendix A)	<u>POD Number:</u> (CP-03507-POD1) <u>Depth to Groundwater:</u> 78 ft. bgs <u>Distance to Well:</u> 1.4 miles to the west <u>Date Drilled:</u> August 26, 2011
	<u>Groundwater Quality:</u> Groundwater quality at the site is unknown but is known to be utilized predominately for livestock production.
Surface Water	Pecos River (Central Eddy County, NM), approximately 1.4 miles to the west of the site.
Soil Characteristics	Soils at the site are mapped as Upton-Simona complex, 1 to 15 percent slopes, eroded. Soil from, 0 to 13 inches is gravelly loam, 13 to 21 inches cemented, 21 to 60 inches very gravelly loam. This soil has a surface layer of loamy fine sand. Restrictive features are present at 13 inches bgs resulting in the formation being categorized with a high runoff classification.
Karst Characterization Cave Karst Public UCP Map – (Exhibit 7 in Appendix A)	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 moderate-level Karst risk area. Based on on-site observations within the extent of the release margins the potential for Karst formations in this specific area are of low potential. A layer of consolidated rock was encountered from 8 to 9 feet bgs within the release margins. The full extent of release quantities and excavation activities did extend greater than 48 inches bgs.

Airs Midstream LLC
JR Horz Booster Pump
D, S10, T26S, R29E
NMOCD Reference # nAPP2200758512



Regulatory Framework and Response Action Levels

Oil and gas exploration and production facilities in New Mexico are generally regulated by the New Mexico Oil Conservation Division (NMOCD). The NMOCD has issued the *Closure Criteria for Soils Impacted by a Release, June 21, 2018*, and *Restoration, Reclamation, and Re-vegetation (19.15.29.13) NMAC – D (Reclamation of areas no longer in use)* as guidance documents for the remediation and reclamation of sites impacted by releases from oil and gas exploration and production activities. The following Sections discuss the applicability of these guidance documents to the site-specific characteristics associated with the Jr Horz Booster Pump release.

Reclamation Levels (Surface to 4 ft. bgs)

Reclamation Limits for chlorides, TPH (GRO+DRO+MRO), BTEX (includes benzene, toluene, ethylbenzene, and xylenes), and benzene are defined within 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.:

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

Remediation Levels (> 4 ft. bgs)

Based on the site-specific characteristics, the applicable NMOCD remediation levels for Total BTEX, chloride, and TPH within soils, exclusive of the Reclamation Zone (surface to 4 ft. bgs), are as follows:

Constituent	Remediation Limit
Chloride	10,000 mg/kg
TPH (GRO+DRO+MRO)	2,500 mg/kg
TPH (GRO+DRO)	1,000 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

**Airs Midstream LLC
JR Horz Booster Pump
D, S10, T26S, R29E
NMOCD Reference # nAPP2200758512**



Soil Investigation Discussion

Terracon conducted release investigation activities between January 19, 2022 and June 16, 2022. During the investigation a total of 145 soil samples were collected from the site and analyzed for BTEX, chloride, and TPH. 142 of these samples were collected from within the release margins, and 3 samples were collected outside of the inferred release area to evaluate background concentrations. Analytical results are presented in Appendix B, Table 2. Laboratory reports are presented in Appendix D.

Background Data Evaluation

Three discrete soil samples were collected from background locations up-gradient from the release area and analyzed for the presence of BTEX and TPH. The laboratory results indicated that none of the three samples exhibited concentrations of BTEX or TPH constituents above laboratory Sample Detection Levels (SDLs). The background samples are identified as BG-1, BG-2 and BG-3 in Table 2 of Appendix B.

Each of the 3 background samples were also analyzed for the presence of chloride. The detected chloride concentration was 14.6 mg/kg in soil sample BG-3 (surface to 0.5 ft bgs) the other two background samples were below laboratory SDLs as summarized in Table 2.

Based on the review of the analytical results of the background soil samples, the detected constituent concentrations did not exceed NMOCD Action Levels based on the criteria ranking parameters and applicability by depth. Based on this comparison, NMOCD Action Levels will continue to be utilized as the applicable RALs for the site.

Release Margins Data Evaluation

Of the 142 soil samples collected from the inferred release area during the release investigation activities 74 samples were collected within the reclamation assessment depths of (surface to 4 ft. bgs), and 68 soil samples were collected from remediation assessment depths below 4 ft. bgs.

■ Reclamation Assessment Data Evaluation

Benzene was not detected at concentrations above the applicable NMOCD RAL (10 mg/kg) in any of the 74 samples collected from the Reclamation Assessment Target depths. Benzene was reported above sample detection limits, but below NMOCD RAG, in two of the 74 samples 0.00198 mg/kg in HA-15 (surface to 0.5 ft. bgs) and 0.00701 mg/kg in HA-15 (0.5 ft. bgs. to 1 ft. bgs).

Total BTEX was not detected at concentrations above the applicable NMOCD RAL of 50 mg/kg in any of the 74 soil samples collected from the Reclamation Assessment target depths. In four of the 74 samples total

**Airs Midstream LLC
JR Horz Booster Pump
D, S10, T26S, R29E
NMOCD Reference # nAPP2200758512**



BTEX was reported to be above applicable laboratory SDLs, but below the NMOCD RAL. The Total BTEX concentrations ranged from 0.00484 mg/kg in HA-13 (1.5 ft. bgs to 2 ft. bgs) to 0.0243 mg/kg in HA-15 (surface to 0.5 ft. bgs.)

Total TPH was detected above applicable laboratory SDLs in two of the 74 soil samples analyzed within the Reclamation Assessment target depths. The Total TPH concentrations ranged from 108 mg/kg in HA-13 (surface bgs to 0.5 ft bgs) to 222 mg/kg in HA-8 (surface to 0.5 ft. bgs.). Both of these samples collected within the release margins did 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 68 of the 74 soil samples analyzed within the Reclamation Assessment target depths. The chloride concentrations ranged from 11.5 mg/kg in soil sample HA-25 (surface to 0.5 ft bgs) to 14,400 mg/kg in soil sample B-5 (3 ft. bgs to 4 ft bgs). Of the 74 soil samples analyzed, 51 soil samples exhibited chloride concentrations above the applicable NMOCD Reclamation Assessment Limit of 600 mg/kg, as summarized in Table 2.

■ Remediation Assessment Data Evaluation

Benzene was not detected above applicable NMOCD RAL (10 mg/kg) in any of the 45 samples collected from the Remediation Assessment depths. Benzene was reported above the laboratory SDLs in only one of the 45 soil samples analyzed within Reclamation Assessment target depths (greater than 4 ft. bgs). 0.00203 mg/kg in HA-16 (4.5 ft. bgs to 5 ft. bgs).

Total BTEX was not detected above applicable laboratory SDLs in any of the 45 soil samples analyzed within Reclamation Assessment target depths. The Total BTEX concentrations did not exceed the applicable NMOCD 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 45 soil samples analyzed within the Reclamation Assessment target depths. The samples collected within the release margins did not exhibit Total TPH concentrations above the NMOCD RAL of 2,500 mg/kg for Total TPH, as summarized in Table 2.

Chloride was detected above applicable laboratory SDLs in 66 of the 68 soil samples analyzed within the Reclamation Assessment target depths. The chloride concentrations ranged from 15.6 mg/kg in soil sample B-2 (7 ft. bgs to 8 ft. bgs) to 50,200 mg/kg in soil sample B-5 (5 ft. bgs to 6 ft. bgs). Of the 68 soil samples analyzed, 7 soil samples exhibited chloride concentrations above the applicable NMOCD Reclamation Assessment Limit of 10,000 mg/kg, as summarized in Table 2.

It should be noted that soil borings BH-6 through BH-12 were utilized to attempt to source possible unknown off-site releases that may have contributed to the elevated chloride impacts seen at B-5.

Responsive ■ Resourceful ■ Reliable

**Airs Midstream LLC
JR Horz Booster Pump
D, S10, T26S, R29E
NMOCD Reference # nAPP2200758512**



Release Investigation Data Summary

Based on the review of the above release investigation analytical results, the presence of petroleum hydrocarbon constituents (BTEX/TPH) were not detected at concentrations above applicable NMOCD Reclamation and/or Remediation Action Limits. The exceptions being the surface samples collected at HA-8 and HA-13.

Fifty one of the 74 soil samples collected from Reclamation Assessment depths exhibited chloride concentrations above the applicable NMOCD Reclamation Action Limit of 600 mg/kg. Seven of the 45 samples collected from Remediation Assessment depths exhibited chlorides above the NMOCD Remediation Action Limit of 10,000 mg/kg for samples collected deeper than 4 ft. bgs.

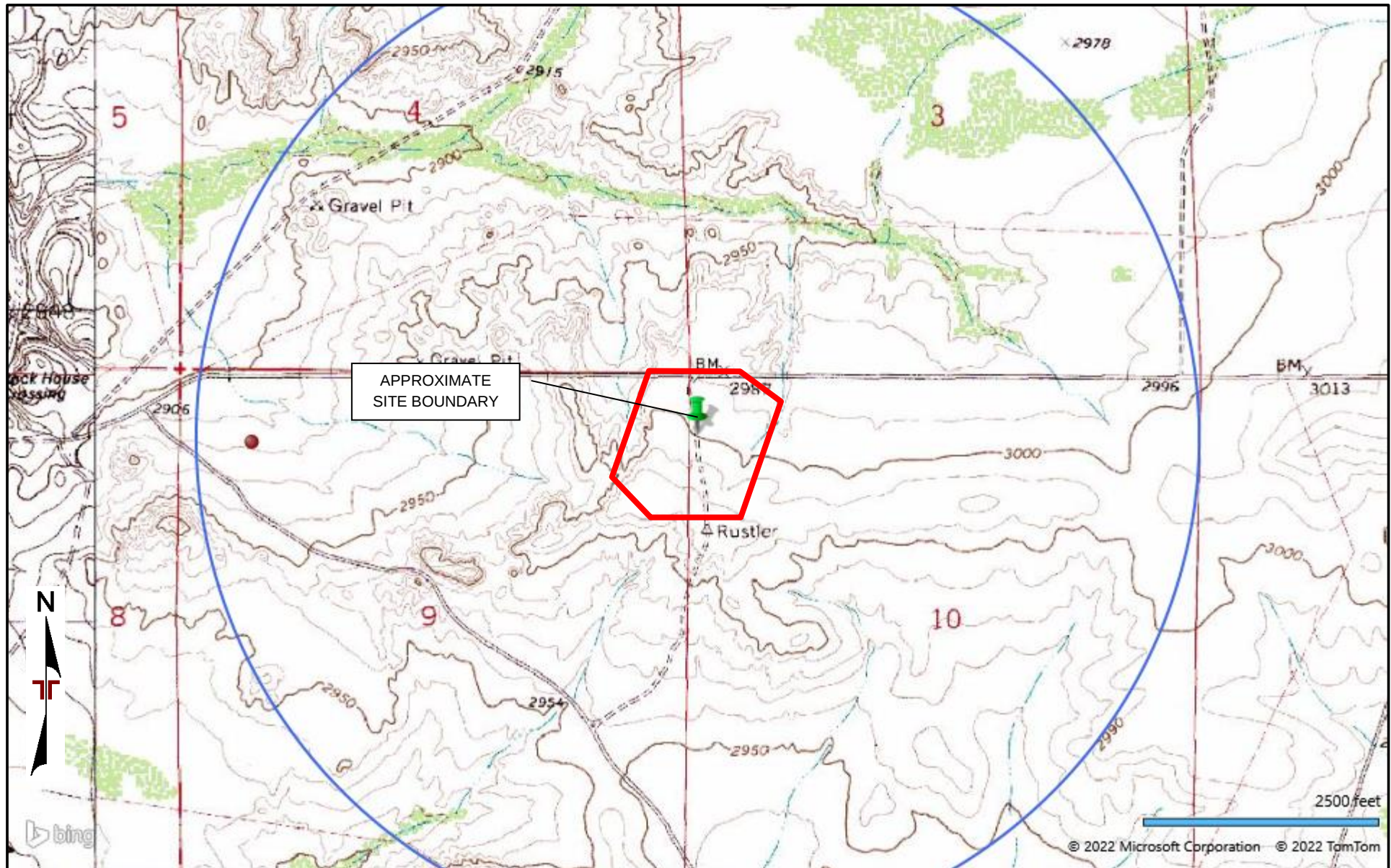
Following the extensive soil investigation at the site, there was no evidence present of any near site releases that would have contributed to the chloride concentrations reported at location B-5. The chloride concentrations at sample location B-5 were unusually high and inconsistent with the findings from across the rest of the impacted area. Considering the ease of access to this area at the end of the heavily traveled pipeline road, it is likely that this area has been utilized as an illegal dumping area for produced water by unethical waste haulers. Terracon recommends the construction of a fence to reduce illegal dumping at the site during the entirety of the remediation and into perpetuity.

Airs Midstream LLC
JR Horz Booster Pump
D, S10, T26S, R29E
NMOCD Reference # nAPP2200758512



Soil Management Plan	
Soil Objectives	Approach Actions
General Soil Plan	Exhuming impacted materials and disposing of them at the nearest R360 facility.
Reclamation Response Objectives	The excavation and disposal of all impacted materials that exceed the NMOCD RALs from surface to 4 ft. bgs.
Remediation Response Objectives	Considering the dangers associated with excavation around the high-pressure gas pipelines in the area and the high erosion potential in this area Terracon recommends terminating remedial efforts at 4 ft. bgs and encapsulate impacted soils below 4 ft. bgs with a 20-mil poly liner
Soil Management	All exhumed soils will be stockpiled and placed on 6-mil poly liners that are additionally surrounded by earthen berms to reduce unintended impacts from run-off at the stockpiles.
Depth of Remediation Confirmation Soil Map – (Figure 3 in Appendix A)	4 ft. bgs
Disposal Facility Waste Manifest – (Appendix E)	R360 Redbluff
Quantity Disposed Waste Manifest – (Appendix E)	18,680 cubic yards of soil

APPENDIX A – EXHIBITS



AERIAL PHOTOGRAPHY PROVIDED BY
MICROSOFT BING MAPS

DIAGRAM IS FOR GENERAL LOCATION ONLY,
AND IS NOT INTENDED FOR CONSTRUCTION
PURPOSES

Project Manager:
Joe Guesnier
Drawn by:
Austin
Checked by:
?
Approved by:
?

Project No.
E2135001
Scale:
AS SHOWN
File Name:
TODD Map
Date:
10/5/22

Terracon

51 Lost Mound Drive, Suite 135
Chattanooga, Tennessee 37406

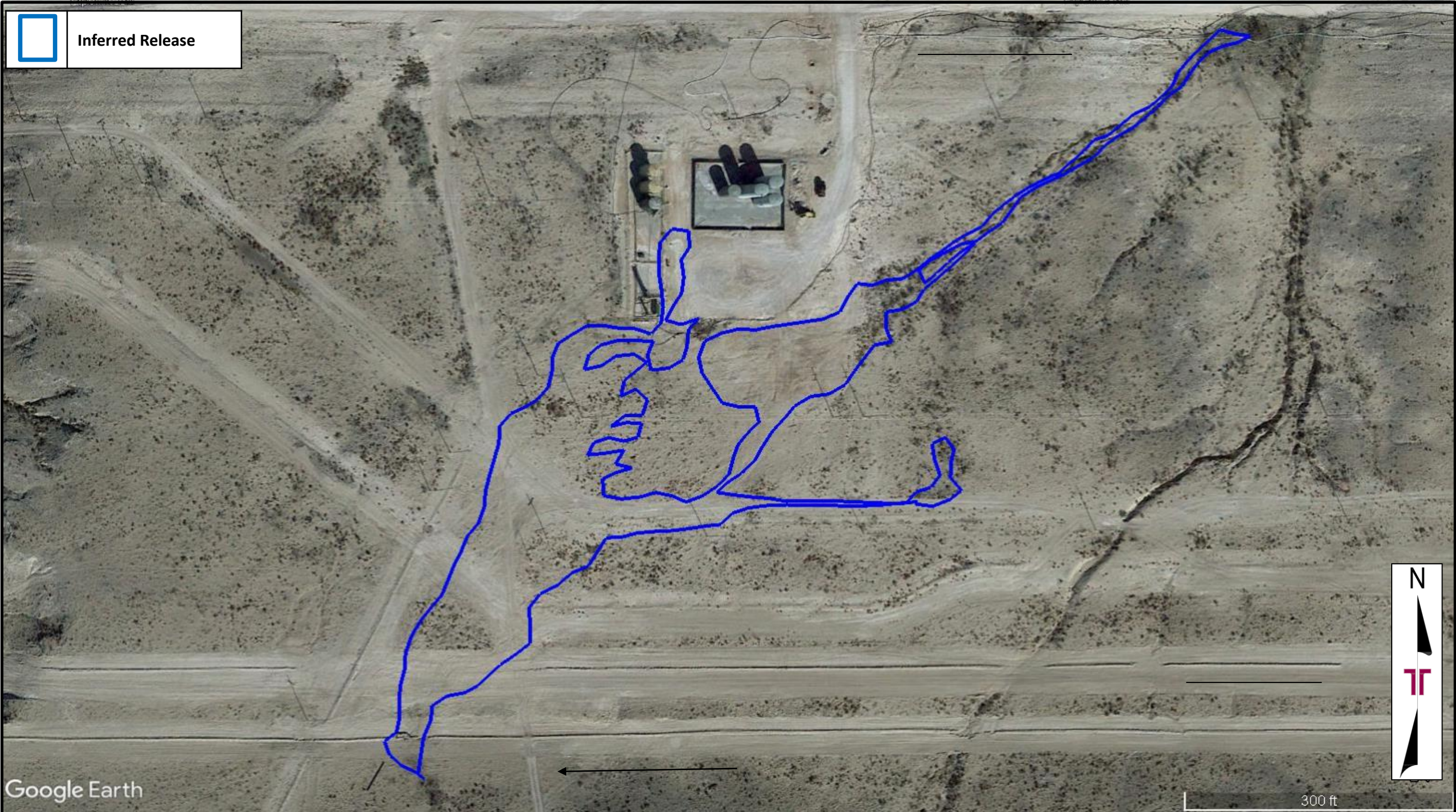
SITE DIAGRAM

MDC REGIONAL CENTRAL OFFICE

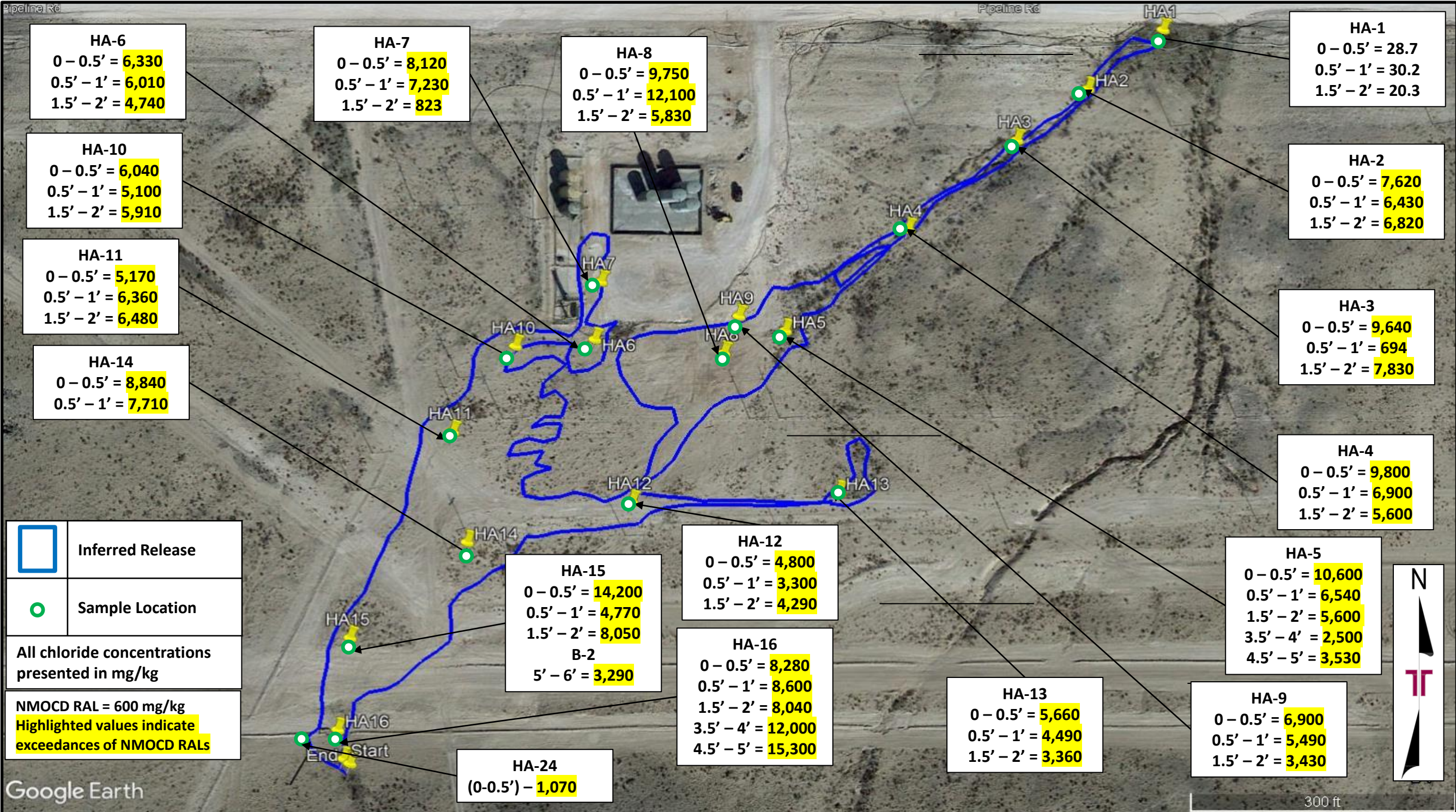
Addr1
Addr2

Exhibit

1



Project No.	AR227020	Exhibit 2 - Site Map	
Scale:	As Shown	JR Horz	
Source:	Google Earth	32.062385°, -103.979949°	
Image Date:	4/1/2016	Eddy County, New Mexico	
 Consulting Engineers & Scientists			
5827 50 th St. Suite 1 PH. (806) 300-0104		Lubbock, Texas 79424 FAX. (806) 797 0947	



Project No.	AR227020
Scale:	As Shown
Source:	Google Earth
Image Date:	4/1/2016

Terracon

Consulting Engineers & Scientists

5827 50th St. Suite 1

PH. (806) 300-0104

Lubbock, Texas 79424

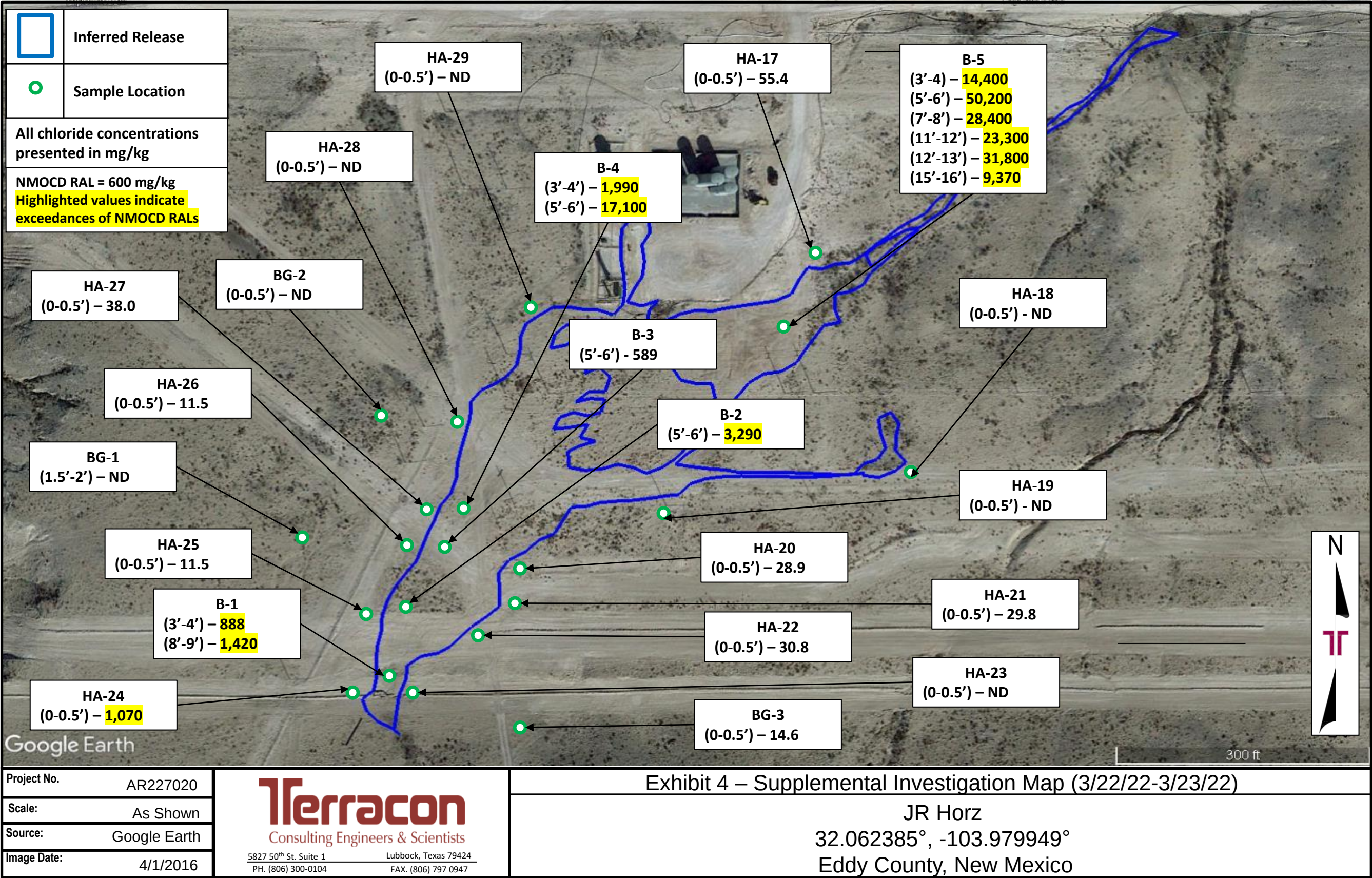
FAX. (806) 797 0947

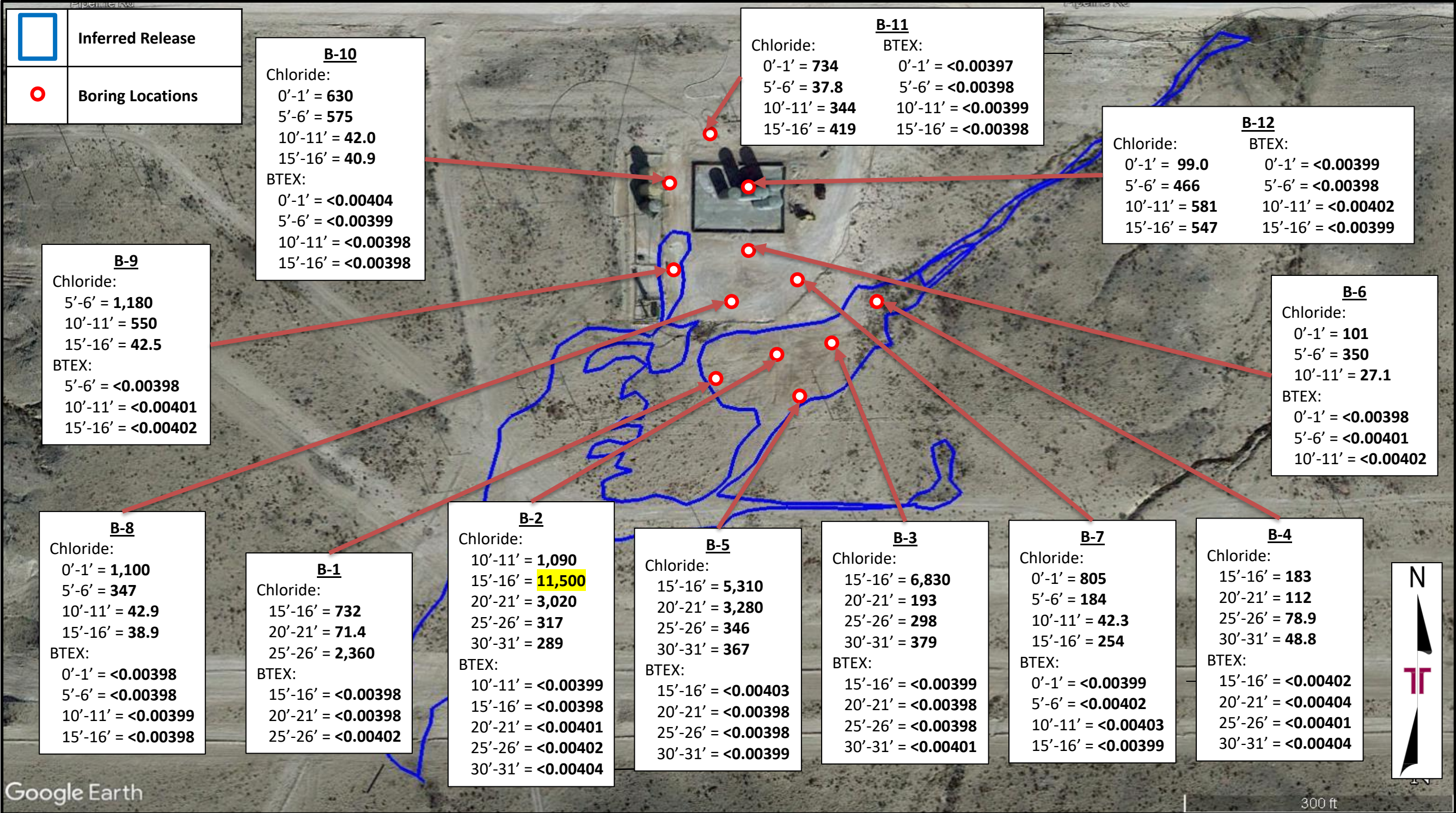
Exhibit 3 – Chloride Concentration Map (1/19/2022)

JR Horz

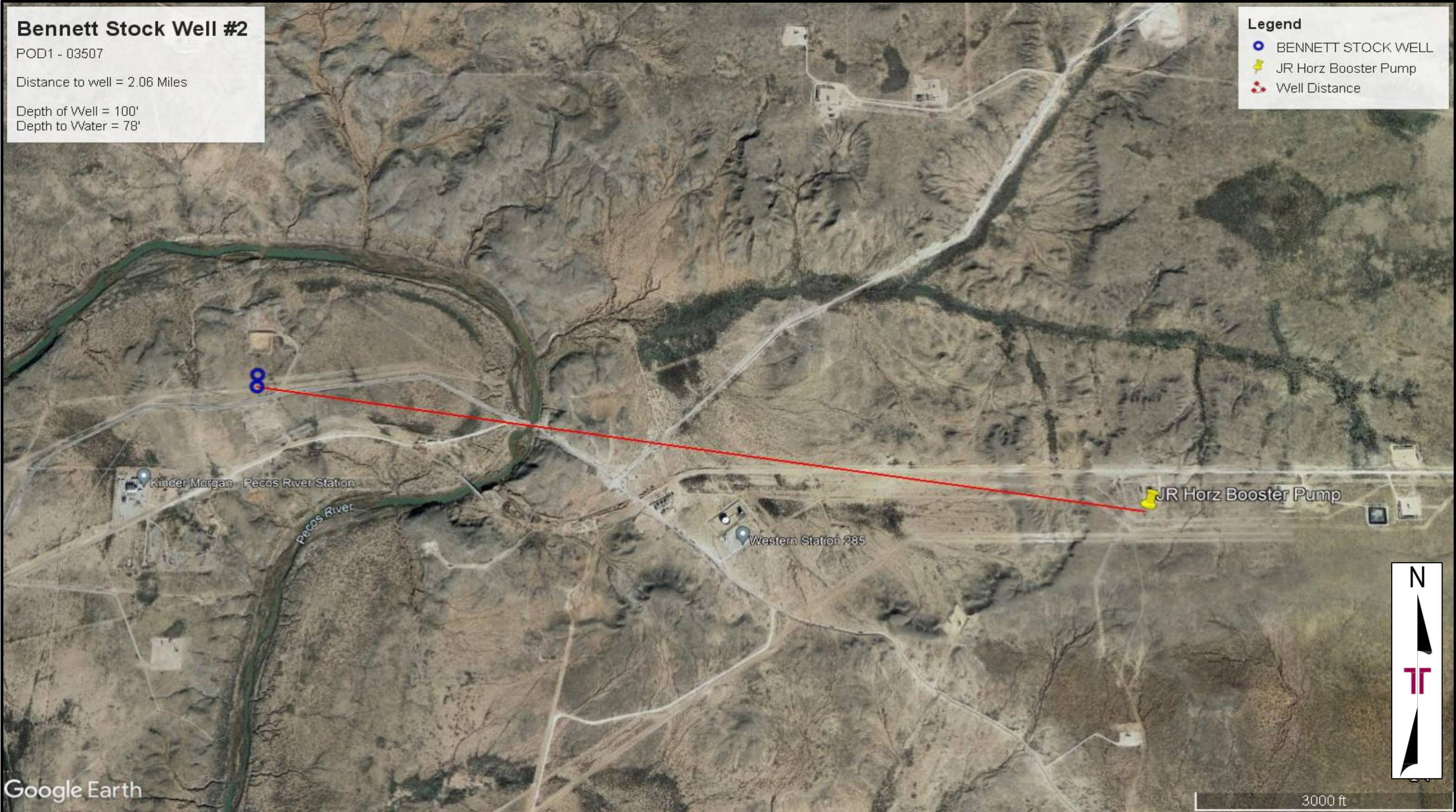
32.062385°, -103.979949°

Eddy County, New Mexico





Project No. AR227020		Exhibit 5 – Boring Investigation Map (6/16/2022)	
Scale:	As Shown		
Source:	Google Earth		
Image Date:	4/1/2016		
 Consulting Engineers & Scientists		JR Horz 32.062385°, -103.979949° Eddy County, New Mexico	
5827 50th St. Suite 1 PH. (806) 300-0104		Lubbock, Texas 79424 FAX. (806) 797 0947	



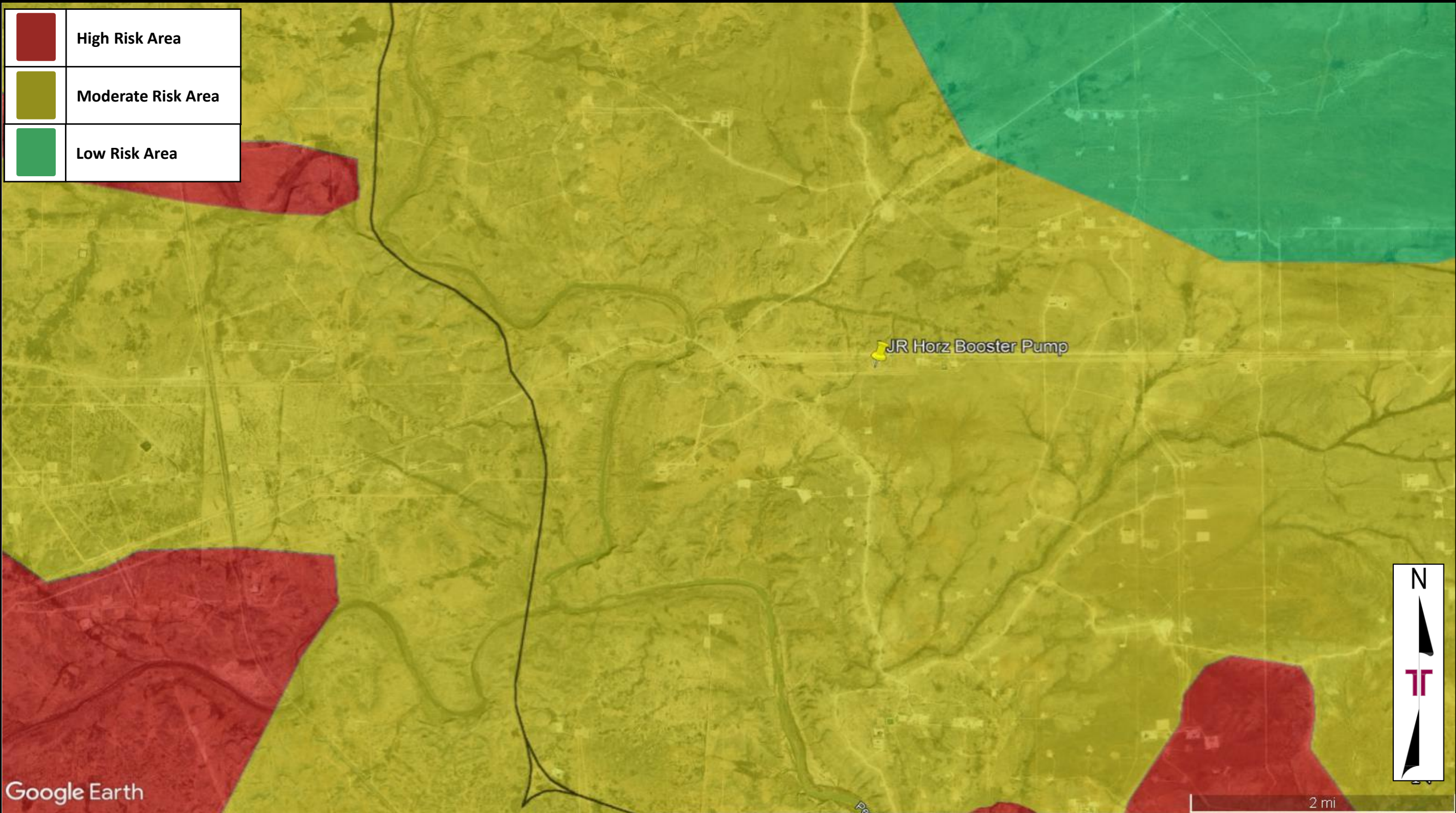
Project No.	AR227020	Exhibit 6 - NMOSE POD Location Map	
Scale:	As Shown	JR Horz	
Source:	Google Earth	32.062385°, -103.979949°	
Image Date:	4/1/2016	Eddy County, New Mexico	

Terracon

Consulting Engineers & Scientists

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

Lubbock, Texas 79424
FAX. (806) 797 0947



Project No.	AR227020
Scale:	As Shown
Source:	Google Earth
Image Date:	4/1/2016

Terracon
Consulting Engineers & Scientists

5827 50th St. Suite 1

PH. (806) 300-0104

Lubbock, Texas 79424

FAX. (806) 797 0947

Exhibit 7 - Cave Karst Public UCP Map
JR Horz 32.062385°, -103.979949° Eddy County, New Mexico

APPENDIX B – TABLES, PROCEDURES, AND FIGURES

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
	TPH (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

*Or other methods approved by the division

**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 JR HORZ Terracon Project No. AR227020									
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
Release Margin Samples									
HA-1	0 - 0.5	Grab	01/19/22	Benzene - ND Total BTEX - ND	28.7	ND	ND	ND	ND
	0.5 - 1	Grab	01/19/22	Benzene - ND Total BTEX - ND	30.2	ND	ND	ND	ND
	1.5 - 2	Grab	01/19/22	Benzene - ND Total BTEX - ND	20.3	ND	ND	ND	ND
HA-2	0 - 0.5	Grab	01/19/22	Benzene - ND Total BTEX - ND	7,620	ND	ND	ND	ND
	0.5 - 1	Grab	01/19/22	Benzene - ND Total BTEX - ND	6,430	ND	ND	ND	ND
	1.5 - 2	Grab	01/19/22	Benzene - ND Total BTEX - ND	6,820	ND	ND	ND	ND
HA-3	0 - 0.5	Grab	01/19/22	Benzene - ND Total BTEX - ND	9,640	ND	ND	ND	ND
	0.5 - 1	Grab	01/19/22	Benzene - ND Total BTEX - ND	694	ND	ND	ND	ND
	1.5 - 2	Grab	01/19/22	Benzene - ND Total BTEX - ND	7,830	ND	ND	ND	ND
HA-4	0 - 0.5	Grab	01/19/22	Benzene - ND Total BTEX - ND	9,800	ND	ND	ND	ND
	0.5 - 1	Grab	01/19/22	Benzene - ND Total BTEX - ND	5,490	ND	ND	ND	ND
	1.5 - 2	Grab	01/19/22	Benzene - ND Total BTEX - ND	5,600	ND	ND	ND	ND
HA-5	0 - 0.5	Grab	01/19/22	Benzene - ND Total BTEX - ND	10,600	ND	ND	ND	ND
	0.5 - 1	Grab	01/19/22	Benzene - ND Total BTEX - ND	6,540	ND	ND	ND	ND
	1.5 - 2	Grab	01/19/22	Benzene - ND Total BTEX - ND	5,600	ND	ND	ND	ND
	3 - 3.5	Grab	01/19/22	Benzene - ND Total BTEX - ND	2,500	ND	ND	ND	ND
	4.5 - 5	Grab	01/19/22	Benzene - ND Total BTEX - ND	3,530	ND	ND	ND	ND
HA-6	0 - 0.5	Grab	01/19/22	Benzene - ND Total BTEX - ND	6,330	ND	ND	ND	ND
	0.5 - 1	Grab	01/19/22	Benzene - ND Total BTEX - ND	6,010	ND	ND	ND	ND
	1.5 - 2	Grab	01/19/22	Benzene - ND Total BTEX - ND	4,740	ND	ND	ND	ND
HA-7	0 - 0.5	Grab	01/19/22	Benzene - ND Total BTEX - ND	8,120	ND	ND	ND	ND
	0.5 - 1	Grab	01/19/22	Benzene - ND Total BTEX - ND	7,230	ND	ND	ND	ND
	1.5 - 2	Grab	01/19/22	Benzene - ND Total BTEX - ND	823	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	10,000	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 JR HORZ Terracon Project No. AR227020									
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
Release Margin Samples									
HA-8	0 - 0.5	Grab	01/19/22	Benzene - ND Total BTEX - ND	9,750	ND	222	ND	222
	0.5 - 1	Grab	01/19/22	Benzene - ND Total BTEX - ND	12,100	ND	ND	ND	ND
	1.5 - 2	Grab	01/19/22	Benzene - ND Total BTEX - ND	5,830	ND	ND	ND	ND
HA-9	0 - 0.5	Grab	01/19/22	Benzene - ND Total BTEX - ND	6,900	ND	ND	ND	ND
	0.5 - 1	Grab	01/19/22	Benzene - ND Total BTEX - ND	5,490	ND	ND	ND	ND
	1.5 - 2	Grab	01/19/22	Benzene - ND Total BTEX - ND	3,430	ND	ND	ND	ND
HA-10	0 - 0.5	Grab	01/19/22	Benzene - ND Total BTEX - ND	6,040	ND	ND	ND	ND
	0.5 - 1	Grab	01/19/22	Benzene - ND Total BTEX - ND	5,100	ND	ND	ND	ND
	1.5 - 2	Grab	01/19/22	Benzene - ND Total BTEX - ND	5,910	ND	ND	ND	ND
HA-11	0 - 0.5	Grab	01/19/22	Benzene - ND Total BTEX - ND	5,170	ND	ND	ND	ND
	0.5 - 1	Grab	01/19/22	Benzene - ND Total BTEX - ND	6,360	ND	ND	ND	ND
	1.5 - 2	Grab	01/19/22	Benzene - ND Total BTEX - ND	6,480	ND	ND	ND	ND
HA-12	0 - 0.5	Grab	01/19/22	Benzene - ND Total BTEX - ND	4,800	ND	ND	ND	ND
	0.5 - 1	Grab	01/19/22	Benzene - ND Total BTEX - ND	3,300	ND	ND	ND	ND
	1.5 - 2	Grab	01/19/22	Benzene - ND Total BTEX - ND	4,290	ND	ND	ND	ND
HA-13	0 - 0.5	Grab	01/19/22	Benzene - ND Total BTEX - ND	5,660	ND	108	ND	108
	0.5 - 1	Grab	01/19/22	Benzene - ND Total BTEX - ND	4,490	ND	ND	ND	ND
	1.5 - 2	Grab	01/19/22	Benzene - ND Total BTEX - 0.00484	3,360	ND	ND	ND	ND
HA-14	0 - 0.5	Grab	01/19/22	Benzene - ND Total BTEX - ND	8,840	ND	ND	ND	ND
	0.5 - 1	Grab	01/19/22	Benzene - ND Total BTEX - ND	7,710	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	10,000	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 JR HORZ Terracon Project No. AR227020									
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
Release Margin Samples									
HA-15	0 - 0.5	Grab	01/19/22	Benzene - 0.00198 Total BTEX - 0.0243	14,200	ND	ND	ND	ND
	0.5 - 1	Grab	01/19/22	Benzene - 0.00701 Total BTEX - 0.00937	4,770	ND	ND	ND	ND
	1.5 - 2	Grab	01/19/22	Benzene - ND Total BTEX - 0.00521	8,050	ND	ND	ND	ND
HA-16	0 - 0.5	Grab	01/19/22	Benzene - ND Total BTEX - ND	8,280	ND	ND	ND	ND
	0.5 - 1	Grab	01/19/22	Benzene - ND Total BTEX - ND	8,600	ND	ND	ND	ND
	1.5 - 2	Grab	01/19/22	Benzene - ND Total BTEX - ND	8,040	ND	ND	ND	ND
	3 - 3.5	Grab	01/19/22	Benzene - ND Total BTEX - ND	12,000	ND	ND	ND	ND
	4.5 - 5	Grab	01/19/22	Benzene - 0.00203 Total BTEX - ND	15,300	ND	ND	ND	ND
Background Samples									
BG-1	1.5 - 2	Grab	03/22/22	Benzene - ND Total BTEX - ND	ND	ND	ND	ND	ND
BG-2	0 - 0.5	Grab	03/22/22	Benzene - ND Total BTEX - ND	ND	ND	ND	ND	ND
BG-3	0 - 0.5	Grab	03/22/22	Benzene - ND Total BTEX - ND	14.6	ND	ND	ND	ND
Additional Sampling Event									
HA-17	0 - 0.5	Grab	03/22/22	Benzene - ND Total BTEX - ND	55.4	ND	ND	ND	ND
HA-18	0 - 0.5	Grab	03/22/22	Benzene - ND Total BTEX - ND	ND	ND	ND	ND	ND
HA-19	0 - 0.5	Grab	03/22/22	Benzene - ND Total BTEX - ND	ND	ND	ND	ND	ND
HA-20	0 - 0.5	Grab	03/22/22	Benzene - ND Total BTEX - ND	28.9	ND	ND	ND	ND
HA-21	0 - 0.5	Grab	03/22/22	Benzene - ND Total BTEX - ND	29.8	ND	ND	ND	ND
HA-22	0 - 0.5	Grab	03/22/22	Benzene - ND Total BTEX - ND	30.8	ND	ND	ND	ND
HA-23	0 - 0.5	Grab	03/22/22	Benzene - ND Total BTEX - ND	ND	ND	ND	ND	ND
HA-24	0 - 0.5	Grab	03/22/22	Benzene - ND Total BTEX - ND	941	ND	ND	ND	ND
	0.5 - 1	Grab	03/22/22	Benzene - ND Total BTEX - ND	1,070	ND	ND	ND	ND
HA-25	0 - 0.5	Grab	03/22/22	Benzene - ND Total BTEX - ND	11.5	ND	ND	ND	ND
HA-26	0 - 0.5	Grab	03/22/22	Benzene - ND Total BTEX - ND	ND	ND	ND	ND	ND
HA-27	0 - 0.5	Grab	03/22/22	Benzene - ND Total BTEX - ND	38	ND	ND	ND	ND
HA-28	0 - 0.5	Grab	03/22/22	Benzene - ND Total BTEX - ND	ND	ND	ND	ND	ND
HA-29	0 - 0.5	Grab	03/22/22	Benzene - ND Total BTEX - ND	ND	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	10,000	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 JR HORZ Terracon Project No. AR227020									
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
Geoprobe Sampling Event									
B-1	3 - 4	Grab	03/23/22	Benzene - ND BTEX - ND	888	ND			
	5 - 6	Grab	03/23/22	Benzene - NA BTEX - NA	331	NA			
	6 - 7	Grab	03/23/22	Benzene - NA BTEX - NA	ND	NA			
	7 - 8	Grab	03/23/22	Benzene - NA BTEX - NA	ND	NA			
	8 - 9	Grab	03/23/22	Benzene - NA BTEX - NA	1,420	NA			
	9 - 10	Grab	03/23/22	Benzene - NA BTEX - NA	78.6	NA			
	10 - 11	Grab	03/23/22	Benzene - ND BTEX - ND	121	ND			
B-2	3 - 4	Grab	03/23/22	Benzene - ND BTEX - ND	54	ND			
	5 - 6	Grab	03/23/22	Benzene - NA BTEX - NA	3,290	NA			
	6 - 7	Grab	03/23/22	Benzene - NA BTEX - NA	18.4	NA			
	7 - 8	Grab	03/23/22	Benzene - NA BTEX - NA	15.6	NA			
	8 - 9	Grab	03/23/22	Benzene - NA BTEX - NA	42.5	NA			
	9 - 10	Grab	03/23/22	Benzene - NA BTEX - NA	147	NA			
	10 - 11	Grab	03/23/22	Benzene - ND BTEX - ND	129	ND			
B-3	3 - 4	Grab	03/23/22	Benzene - ND BTEX - ND	125	ND			
	5 - 6	Grab	03/23/22	Benzene - NA BTEX - NA	589	NA			
	6 - 7	Grab	03/23/22	Benzene - NA BTEX - NA	302	NA			
	7 - 8	Grab	03/23/22	Benzene - NA BTEX - NA	347	NA			
	8 - 9	Grab	03/23/22	Benzene - NA BTEX - NA	163	NA			
	9 - 10	Grab	03/23/22	Benzene - NA BTEX - NA	155	NA			
	10 - 11	Grab	03/23/22	Benzene - ND BTEX - ND	118	ND			
B-4	3 - 4	Grab	03/23/22	Benzene - ND BTEX - ND	1,990	ND			
	5 - 6	Grab	03/23/22	Benzene - NA BTEX - NA	17,100	NA			
	6 - 7	Grab	03/23/22	Benzene - NA BTEX - NA	149	NA			
	7 - 8	Grab	03/23/22	Benzene - ND BTEX - ND	155	ND			
B-5	3 - 4	Grab	03/23/22	Benzene - ND BTEX - ND	14,400	ND			
	5 - 6	Grab	03/23/22	Benzene - NA BTEX - NA	50,200	NA			
	7 - 8	Grab	03/23/22	Benzene - NA BTEX - NA	28,400	NA			
	11 - 12	Grab	03/23/22	Benzene - NA BTEX - NA	23,300	NA			
	12 - 13	Grab	03/23/22	Benzene - NA BTEX - NA	31,800	NA			
	15 - 16	Grab	03/23/22	Benzene - ND BTEX - ND	9,370	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	10,000	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 JR HORZ Terracon Project No. AR227020									
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
Boring Sampling Event									
BH-1	15 - 16	Grab	06/16/22	Benzene - ND BTEX - ND	732	ND	ND	ND	ND
	20 - 21	Grab	06/16/22	Benzene - ND BTEX - ND	71.4	ND	ND	ND	ND
	25 - 26	Grab	06/16/22	Benzene - ND BTEX - ND	2,360	ND	ND	ND	ND
BH-2	10 - 11	Grab	06/16/22	Benzene - ND BTEX - ND	1,090	ND	ND	ND	ND
	15 - 16	Grab	06/16/22	Benzene - ND BTEX - ND	11,500	ND	ND	ND	ND
	20 - 21	Grab	06/16/22	Benzene - ND BTEX - ND	3,020	ND	ND	ND	ND
	25 - 26	Grab	06/16/22	Benzene - ND BTEX - ND	317	ND	ND	ND	ND
	30 - 31	Grab	06/16/22	Benzene - ND BTEX - ND	289	ND	ND	ND	ND
BH-3	15 - 16	Grab	06/16/22	Benzene - ND BTEX - ND	6,830	ND	ND	ND	ND
	20 - 21	Grab	06/16/22	Benzene - ND BTEX - ND	193	121	ND	ND	121
	25 - 26	Grab	06/16/22	Benzene - ND BTEX - ND	298	52	ND	ND	52
	30 - 31	Grab	06/16/22	Benzene - ND BTEX - ND	379	ND	ND	ND	ND
BH-4	15 - 16	Grab	06/16/22	Benzene - ND BTEX - ND	183	52.8	ND	ND	52.8
	20 - 21	Grab	06/16/22	Benzene - ND BTEX - ND	112	54.2	ND	ND	54.2
	25 - 26	Grab	06/16/22	Benzene - ND BTEX - ND	78.9	150	ND	ND	150
	30 - 31	Grab	06/16/22	Benzene - ND BTEX - ND	48.8	ND	ND	ND	ND
BH-5	15 - 16	Grab	06/16/22	Benzene - ND BTEX - ND	5,310	96	ND	ND	96
	20 - 21	Grab	06/16/22	Benzene - ND BTEX - ND	3,280	152	ND	ND	152
	25 - 26	Grab	06/16/22	Benzene - ND BTEX - ND	346	69.5	ND	ND	69.5
	30 - 31	Grab	06/16/22	Benzene - ND BTEX - ND	367	ND	ND	ND	ND
BH-6	0 - 1	Grab	06/16/22	Benzene - ND BTEX - ND	101	ND	ND	ND	ND
	5 - 6	Grab	06/16/22	Benzene - ND BTEX - ND	350	53.5	ND	ND	53.5
	10 - 11	Grab	06/16/22	Benzene - ND BTEX - ND	27.1	ND	ND	ND	ND
BH-7	0 - 1	Grab	06/16/22	Benzene - ND BTEX - ND	805	ND	ND	ND	ND
	5 - 6	Grab	06/16/22	Benzene - ND BTEX - ND	184	ND	ND	ND	ND
	10 - 11	Grab	06/16/22	Benzene - ND BTEX - ND	42.3	ND	ND	ND	ND
	15 - 16	Grab	06/16/22	Benzene - ND BTEX - ND	254	ND	ND	ND	ND
BH-8	0 - 1	Grab	06/16/22	Benzene - ND BTEX - ND	1,100	ND	ND	ND	ND
	5 - 6	Grab	06/16/22	Benzene - ND BTEX - ND	347	ND	ND	ND	ND
	10 - 11	Grab	06/16/22	Benzene - ND BTEX - ND	42.9	ND	ND	ND	ND
	15 - 16	Grab	06/16/22	Benzene - ND BTEX - ND	38.9	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	10,000	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 JR HORZ Terracon Project No. AR227020									
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
Boring Sampling Event									
BH-9	5 - 6	Grab	06/16/22	Benzene - ND BTEX - ND	1,180	ND	ND	ND	ND
	10 - 11	Grab	06/16/22	Benzene - ND BTEX - ND	550	ND	ND	ND	ND
	15 - 16	Grab	06/16/22	Benzene - ND BTEX - ND	42.5	ND	ND	ND	ND
BH-10	0 - 1	Grab	06/16/22	Benzene - ND BTEX - ND	630	ND	ND	ND	ND
	5 - 6	Grab	06/16/22	Benzene - ND BTEX - ND	575	ND	ND	ND	ND
	10 - 11	Grab	06/16/22	Benzene - ND BTEX - ND	42	ND	ND	ND	ND
	15 - 16	Grab	06/16/22	Benzene - ND BTEX - ND	40.9	ND	ND	ND	ND
BH-11	0 - 1	Grab	06/16/22	Benzene - ND BTEX - ND	734	ND	ND	ND	ND
	5 - 6	Grab	06/16/22	Benzene - ND BTEX - ND	37.8	ND	ND	ND	ND
	10 - 11	Grab	06/16/22	Benzene - ND BTEX - ND	344	ND	ND	ND	ND
	15 - 16	Grab	06/16/22	Benzene - ND BTEX - ND	419	ND	ND	ND	ND
BH-12	0 - 1	Grab	06/16/22	Benzene - ND BTEX - ND	99	ND	ND	ND	ND
	5 - 6	Grab	06/16/22	Benzene - ND BTEX - ND	466	ND	ND	ND	ND
	10 - 11	Grab	06/16/22	Benzene - ND BTEX - ND	581	ND	ND	ND	ND
	15 - 16	Grab	06/16/22	Benzene - ND BTEX - ND	547	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

JR Horz Booster Pump Release ■ Eddy County, New Mexico
October 21, 2022 ■ Terracon Project No. AR227020



PHOTO 1: View of release origin.



PHOTO 2: View of release from the top of the hillside.

JR Horz Booster Pump Release ■ Eddy County, New Mexico
October 21, 2022 ■ Terracon Project No. AR227020



PHOTO 3: View of release origin within Aris Midstream LLC, pipeline right-of-way.



PHOTO 4: View of release path from the top of the hillside.

JR Horz Booster Pump Release ■ Eddy County, New Mexico
October 21, 2022 ■ Terracon Project No. AR227020



PHOTO 5: View of release path crossing multiple pipeline rights-of-way.



PHOTO 6: View of release in pipeline right-of-way.

JR Horz Booster Pump Release ■ Eddy County, New Mexico
October 21, 2022 ■ Terracon Project No. AR227020



PHOTO 7: View of release path.



PHOTO 8: View of release path at divergence point.

JR Horz Booster Pump Release ■ Eddy County, New Mexico
October 21, 2022 ■ Terracon Project No. AR227020



PHOTO 9: View of release divergence point.



PHOTO 10: View of release.

JR Horz Booster Pump Release ■ Eddy County, New Mexico
October 21, 2022 ■ Terracon Project No. AR227020



PHOTO 11: View of release.

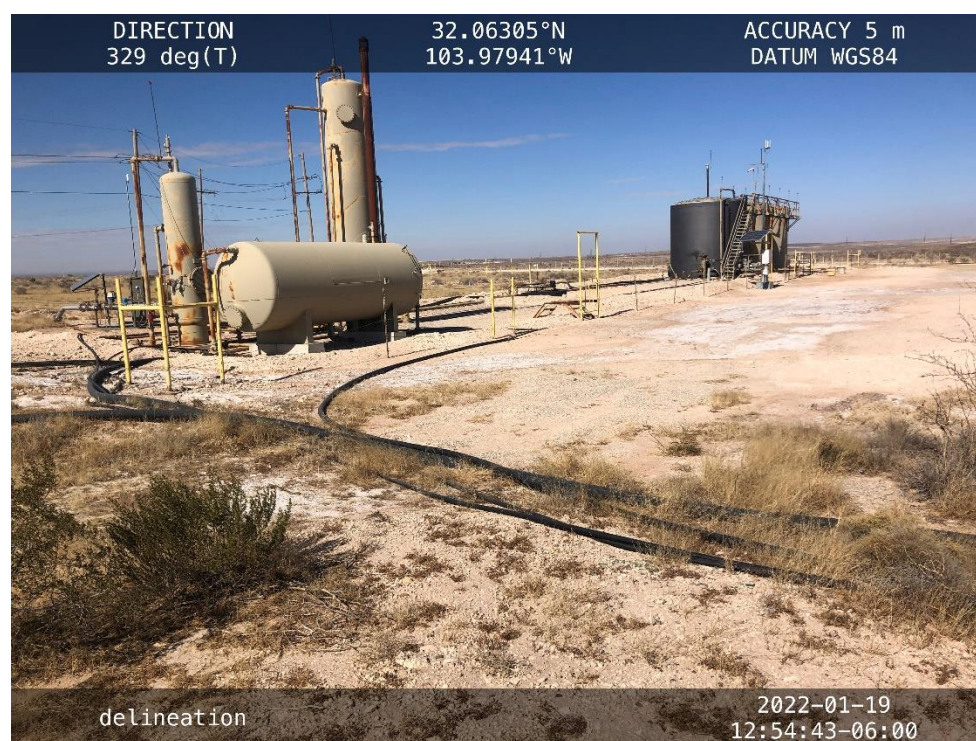


PHOTO 12: View of release that impacted tank battery pad.

JR Horz Booster Pump Release ■ Eddy County, New Mexico
October 21, 2022 ■ Terracon Project No. AR227020



PHOTO 13: View of release pooling area, around B-5.



PHOTO 14: View of release where it entered natural drainage area

JR Horz Booster Pump Release ■ Eddy County, New Mexico
October 21, 2022 ■ Terracon Project No. AR227020



PHOTO 15: View of release where it entered natural drainage area.



PHOTO 16: View of release path.

JR Horz Booster Pump Release ■ Eddy County, New Mexico
October 21, 2022 ■ Terracon Project No. AR227020



PHOTO 17: View of release near terminal point at the bottom of the hillside.



PHOTO 18: View of release from the bottom of the hillside.

APPENDIX D – ANALYTICAL REPORT AND CHAIN OF CUSTODY



Environment Testing America

ANALYTICAL REPORT

Eurofins Lubbock
6701 Aberdeen Ave.
Suite 8
Lubbock, TX 79424
Tel: (806)794-1296

Laboratory Job ID: 820-3188-1

Laboratory Sample Delivery Group: AR227020

Client Project/Site: KR Horz

For:

Terracon Consulting Eng & Scientists
5847 50th St
Lubbock, Texas 79424

Attn: Joseph Guesnier

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

Authorized for release by:
1/31/2022 1:43:32 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Laboratory Job ID: 820-3188-1
SDG: AR227020

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Coliform MCLs

· Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

Warranties, Terms, and Conditions

· Analyses for Field Parameters are performed by EQC field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification #02015

VL = field staff performs tests under NJ State certification #06005

WG = field staff performs tests under NJ State certification #PA001

H = field staff performs tests under NJ NELAP certification #PA093, PA NELAP certification # 46-

05499

· Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.

· The report shall not be reproduced, except in full, without the written consent of the laboratory

· All samples are collected as "grab" samples unless otherwise identified.

· Reported results related only to the samples as tested. EQC is not responsible for sample integrity unless sampling has been performed by a member of our staff.

· EQC is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.

· Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.

· The following personnel or their deputies have approved the results of the tests performed by EQC: Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).



Jessica Kramer
Project Manager
1/31/2022 1:43:32 PM

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Laboratory Job ID: 820-3188-1
SDG: AR227020

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	6
Client Sample Results	8
Surrogate Summary	47
QC Sample Results	51
QC Association Summary	64
Lab Chronicle	76
Certification Summary	92
Method Summary	93
Sample Summary	94
Chain of Custody	95
Receipt Checklists	101

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Qualifiers

GC VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)

Eurofins Lubbock

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Job ID: 820-3188-1

Laboratory: Eurofins Lubbock

Narrative

Job Narrative
820-3188-1

Receipt

The samples were received on 1/20/2022 3:55 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -3.2°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-17388 and analytical batch 880-17427 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: HA- 13 (1.5'-2') (820-3188-41), HA- 15 (.5'-1') (820-3188-45), HA- 15 (1.5'-2') (820-3188-46), HA- 16 (0-.5') (820-3188-47), HA- 16 (.5'-1') (820-3188-48) and HA- 16 (3.5'-4') (820-3188-50). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: HA- 1 (.5'-1') (820-3188-2), (MB 880-17167/5-A), (MB 880-17424/5-A), (820-3188-A-1-D MS) and (820-3188-A-1-B MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-17628/2-A) and (LCSD 880-17628/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-17528 and analytical batch 880-17660 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: HA-1 (0-0.5') (820-3188-1) and HA-5 (1.5'-2') (820-3188-15). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-17529 and analytical batch 880-17662 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: HA- 7 (1.5'-2') (820-3188-23), HA- 10 (1.5'-2') (820-3188-32), HA- 11 (0-.5') (820-3188-33) and HA- 12 (1.5'-2') (820-3188-38). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-17557 and analytical batch 880-17734 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The continuing calibration blank (CCB) for analytical batch 880-17734 contained <AffectedAnalytes> above the reporting limit (RL). All reported samples associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-17556 and analytical batch 880-17727 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Job ID: 820-3188-1 (Continued)

Laboratory: Eurofins Lubbock (Continued)

the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-17558 and 880-17558 and analytical batch 880-17735 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA-1 (0-0.5')

Lab Sample ID: 820-3188-1

Date Collected: 01/19/22 12:00

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1	0.00199		mg/Kg		01/21/22 16:00	01/22/22 18:20	1
Toluene	<0.00199	U F1 F2	0.00199		mg/Kg		01/21/22 16:00	01/22/22 18:20	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		01/21/22 16:00	01/22/22 18:20	1
m,p-Xylenes	<0.00398	U F1 F2	0.00398		mg/Kg		01/21/22 16:00	01/22/22 18:20	1
o-Xylene	<0.00199	U F1 F2	0.00199		mg/Kg		01/21/22 16:00	01/22/22 18:20	1
Xylenes, Total	<0.00398	U F1	0.00398		mg/Kg		01/21/22 16:00	01/22/22 18:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	01/21/22 16:00	01/22/22 18:20	1
1,4-Difluorobenzene (Surr)	85		70 - 130	01/21/22 16:00	01/22/22 18:20	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/25/22 11:51	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1 F2	49.9		mg/Kg		01/24/22 09:02	01/25/22 12:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U F1	49.9		mg/Kg		01/24/22 09:02	01/25/22 12:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/24/22 09:02	01/25/22 12:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	113		70 - 130	01/24/22 09:02	01/25/22 12:38	1
o-Terphenyl (Surr)	134	S1+	70 - 130	01/24/22 09:02	01/25/22 12:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.7		5.05		mg/Kg			01/25/22 19:44	1

Client Sample ID: HA- 1 (.5'-1')

Lab Sample ID: 820-3188-2

Date Collected: 01/19/22 12:05

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/21/22 16:00	01/22/22 18:49	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/21/22 16:00	01/22/22 18:49	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/21/22 16:00	01/22/22 18:49	1
m,p-Xylenes	<0.00397	U	0.00397		mg/Kg		01/21/22 16:00	01/22/22 18:49	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/21/22 16:00	01/22/22 18:49	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		01/21/22 16:00	01/22/22 18:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130	01/21/22 16:00	01/22/22 18:49	1
1,4-Difluorobenzene (Surr)	80		70 - 130	01/21/22 16:00	01/22/22 18:49	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 1 (.5'-1')

Lab Sample ID: 820-3188-2

Date Collected: 01/19/22 12:05

Matrix: Soil

Date Received: 01/20/22 15:55

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			01/25/22 11:51	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/24/22 09:02	01/25/22 13:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/24/22 09:02	01/25/22 13:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/24/22 09:02	01/25/22 13:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130				01/24/22 09:02	01/25/22 13:43	1
o-Terphenyl (Surr)	113		70 - 130				01/24/22 09:02	01/25/22 13:43	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.2		4.99		mg/Kg			01/25/22 20:03	1

Client Sample ID: HA- 1 (1.5'-2')

Lab Sample ID: 820-3188-3

Date Collected: 01/19/22 12:10

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/21/22 16:00	01/22/22 19:17	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/21/22 16:00	01/22/22 19:17	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/21/22 16:00	01/22/22 19:17	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		01/21/22 16:00	01/22/22 19:17	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/21/22 16:00	01/22/22 19:17	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/21/22 16:00	01/22/22 19:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				01/21/22 16:00	01/22/22 19:17	1
1,4-Difluorobenzene (Surr)	102		70 - 130				01/21/22 16:00	01/22/22 19:17	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			01/25/22 11:51	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/24/22 09:02	01/25/22 14:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/24/22 09:02	01/25/22 14:05	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 1 (1.5'-2')

Lab Sample ID: 820-3188-3

Date Collected: 01/19/22 12:10

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/24/22 09:02	01/25/22 14:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130				01/24/22 09:02	01/25/22 14:05	1
o-Terphenyl (Surr)	112		70 - 130				01/24/22 09:02	01/25/22 14:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.3		4.95		mg/Kg			01/25/22 20:09	1

Client Sample ID: HA-2 (0-.5')

Lab Sample ID: 820-3188-4

Date Collected: 01/19/22 12:15

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/21/22 16:00	01/22/22 19:45	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/21/22 16:00	01/22/22 19:45	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/21/22 16:00	01/22/22 19:45	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/21/22 16:00	01/22/22 19:45	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/21/22 16:00	01/22/22 19:45	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/21/22 16:00	01/22/22 19:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				01/21/22 16:00	01/22/22 19:45	1
1,4-Difluorobenzene (Surr)	99		70 - 130				01/21/22 16:00	01/22/22 19:45	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/25/22 11:51	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/24/22 09:02	01/25/22 14:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/24/22 09:02	01/25/22 14:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/24/22 09:02	01/25/22 14:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	108		70 - 130				01/24/22 09:02	01/25/22 14:27	1
o-Terphenyl (Surr)	127		70 - 130				01/24/22 09:02	01/25/22 14:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7620		49.7		mg/Kg			01/25/22 20:16	10

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 2 (.5'-1')

Lab Sample ID: 820-3188-5

Date Collected: 01/19/22 12:20

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/22/22 20:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/22/22 20:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/22/22 20:14	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		01/21/22 16:00	01/22/22 20:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/22/22 20:14	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/21/22 16:00	01/22/22 20:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	01/21/22 16:00	01/22/22 20:14	1
1,4-Difluorobenzene (Surr)	97		70 - 130	01/21/22 16:00	01/22/22 20:14	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/25/22 11:51	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/24/22 09:02	01/25/22 14:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/24/22 09:02	01/25/22 14:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/24/22 09:02	01/25/22 14:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130	01/24/22 09:02	01/25/22 14:48	1
o-Terphenyl (Surr)	114		70 - 130	01/24/22 09:02	01/25/22 14:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6430		50.0		mg/Kg			01/25/22 20:22	10

Client Sample ID: HA- 2 (1.5'-2')

Lab Sample ID: 820-3188-6

Date Collected: 01/19/22 12:25

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/21/22 16:00	01/22/22 20:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/21/22 16:00	01/22/22 20:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/21/22 16:00	01/22/22 20:42	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/21/22 16:00	01/22/22 20:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/21/22 16:00	01/22/22 20:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/21/22 16:00	01/22/22 20:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	01/21/22 16:00	01/22/22 20:42	1
1,4-Difluorobenzene (Surr)	99		70 - 130	01/21/22 16:00	01/22/22 20:42	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 2 (1.5'-2')

Lab Sample ID: 820-3188-6

Date Collected: 01/19/22 12:25

Matrix: Soil

Date Received: 01/20/22 15:55

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/25/22 11:51	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/24/22 09:02	01/25/22 15:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/24/22 09:02	01/25/22 15:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/24/22 09:02	01/25/22 15:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130				01/24/22 09:02	01/25/22 15:11	1
o-Terphenyl (Surr)	117		70 - 130				01/24/22 09:02	01/25/22 15:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6820		49.6		mg/Kg			01/25/22 20:41	10

Client Sample ID: HA- 3 (0-.5')

Lab Sample ID: 820-3188-7

Date Collected: 01/19/22 12:30

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/22/22 21:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/22/22 21:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/22/22 21:11	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/21/22 16:00	01/22/22 21:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/22/22 21:11	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/21/22 16:00	01/22/22 21:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				01/21/22 16:00	01/22/22 21:11	1
1,4-Difluorobenzene (Surr)	103		70 - 130				01/21/22 16:00	01/22/22 21:11	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			01/25/22 11:51	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/24/22 09:02	01/25/22 15:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/24/22 09:02	01/25/22 15:33	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 3 (0-.5')

Lab Sample ID: 820-3188-7

Date Collected: 01/19/22 12:30

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/24/22 09:02	01/25/22 15:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	90		70 - 130				01/24/22 09:02	01/25/22 15:33	1
o-Terphenyl (Surr)	106		70 - 130				01/24/22 09:02	01/25/22 15:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9640		50.4		mg/Kg			01/25/22 20:48	10

Client Sample ID: HA- 3 (.5'-1')

Lab Sample ID: 820-3188-8

Date Collected: 01/19/22 12:35

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/21/22 16:00	01/22/22 21:39	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/21/22 16:00	01/22/22 21:39	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/21/22 16:00	01/22/22 21:39	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/21/22 16:00	01/22/22 21:39	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/21/22 16:00	01/22/22 21:39	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/21/22 16:00	01/22/22 21:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				01/21/22 16:00	01/22/22 21:39	1
1,4-Difluorobenzene (Surr)	107		70 - 130				01/21/22 16:00	01/22/22 21:39	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/25/22 11:51	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/24/22 09:02	01/25/22 15:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/24/22 09:02	01/25/22 15:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/24/22 09:02	01/25/22 15:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130				01/24/22 09:02	01/25/22 15:55	1
o-Terphenyl (Surr)	119		70 - 130				01/24/22 09:02	01/25/22 15:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	694		4.98		mg/Kg			01/26/22 12:27	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 3 ((1.5'-2')

Lab Sample ID: 820-3188-9

Date Collected: 01/19/22 12:40

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/21/22 16:00	01/22/22 22:07	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/21/22 16:00	01/22/22 22:07	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/21/22 16:00	01/22/22 22:07	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		01/21/22 16:00	01/22/22 22:07	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/21/22 16:00	01/22/22 22:07	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/21/22 16:00	01/22/22 22:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	01/21/22 16:00	01/22/22 22:07	1
1,4-Difluorobenzene (Surr)	99		70 - 130	01/21/22 16:00	01/22/22 22:07	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			01/25/22 11:51	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/24/22 09:02	01/25/22 16:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/24/22 09:02	01/25/22 16:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/24/22 09:02	01/25/22 16:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130	01/24/22 09:02	01/25/22 16:17	1
o-Terphenyl (Surr)	123		70 - 130	01/24/22 09:02	01/25/22 16:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7830		49.5		mg/Kg			01/25/22 21:00	10

Client Sample ID: HA- 4 (0-.5')

Lab Sample ID: 820-3188-10

Date Collected: 01/19/22 12:45

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/21/22 16:00	01/22/22 22:36	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/21/22 16:00	01/22/22 22:36	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/21/22 16:00	01/22/22 22:36	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		01/21/22 16:00	01/22/22 22:36	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/21/22 16:00	01/22/22 22:36	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/21/22 16:00	01/22/22 22:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	01/21/22 16:00	01/22/22 22:36	1
1,4-Difluorobenzene (Surr)	105		70 - 130	01/21/22 16:00	01/22/22 22:36	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 4 (0-.5')

Lab Sample ID: 820-3188-10

Date Collected: 01/19/22 12:45

Matrix: Soil

Date Received: 01/20/22 15:55

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/25/22 11:51	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/24/22 09:02	01/25/22 16:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/24/22 09:02	01/25/22 16:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/24/22 09:02	01/25/22 16:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130				01/24/22 09:02	01/25/22 16:40	1
o-Terphenyl (Surr)	122		70 - 130				01/24/22 09:02	01/25/22 16:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9800		50.2		mg/Kg			01/25/22 21:07	10

Client Sample ID: HA- 4 (.5'-1')

Lab Sample ID: 820-3188-11

Date Collected: 01/19/22 12:50

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/23/22 00:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/23/22 00:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/23/22 00:25	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		01/21/22 16:00	01/23/22 00:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/23/22 00:25	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/21/22 16:00	01/23/22 00:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				01/21/22 16:00	01/23/22 00:25	1
1,4-Difluorobenzene (Surr)	92		70 - 130				01/21/22 16:00	01/23/22 00:25	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/25/22 11:51	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/24/22 09:02	01/25/22 17:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/24/22 09:02	01/25/22 17:24	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 4 (.5'-1')

Lab Sample ID: 820-3188-11

Date Collected: 01/19/22 12:50

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/24/22 09:02	01/25/22 17:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130				01/24/22 09:02	01/25/22 17:24	1
o-Terphenyl (Surr)	118		70 - 130				01/24/22 09:02	01/25/22 17:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6900	F1	50.0		mg/Kg			01/25/22 21:13	10

Client Sample ID: HA-4 (1.5'-2')

Lab Sample ID: 820-3188-12

Date Collected: 01/19/22 12:55

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/21/22 16:00	01/23/22 00:52	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/21/22 16:00	01/23/22 00:52	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/21/22 16:00	01/23/22 00:52	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/21/22 16:00	01/23/22 00:52	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/21/22 16:00	01/23/22 00:52	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/21/22 16:00	01/23/22 00:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				01/21/22 16:00	01/23/22 00:52	1
1,4-Difluorobenzene (Surr)	97		70 - 130				01/21/22 16:00	01/23/22 00:52	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/25/22 11:51	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/24/22 09:02	01/25/22 17:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/24/22 09:02	01/25/22 17:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/24/22 09:02	01/25/22 17:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130				01/24/22 09:02	01/25/22 17:46	1
o-Terphenyl (Surr)	123		70 - 130				01/24/22 09:02	01/25/22 17:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5600		49.9		mg/Kg			01/25/22 21:32	10

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 5 (0-.5')

Lab Sample ID: 820-3188-13

Date Collected: 01/19/22 13:00

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/21/22 16:00	01/23/22 01:19	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/21/22 16:00	01/23/22 01:19	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/21/22 16:00	01/23/22 01:19	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		01/21/22 16:00	01/23/22 01:19	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/21/22 16:00	01/23/22 01:19	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/21/22 16:00	01/23/22 01:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130	01/21/22 16:00	01/23/22 01:19	1
1,4-Difluorobenzene (Surr)	78		70 - 130	01/21/22 16:00	01/23/22 01:19	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			01/25/22 11:51	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/24/22 09:02	01/25/22 18:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/24/22 09:02	01/25/22 18:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/24/22 09:02	01/25/22 18:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130	01/24/22 09:02	01/25/22 18:07	1
o-Terphenyl (Surr)	119		70 - 130	01/24/22 09:02	01/25/22 18:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10600		49.7		mg/Kg			01/25/22 21:38	10

Client Sample ID: HA- 5 (.5'-1')

Lab Sample ID: 820-3188-14

Date Collected: 01/19/22 13:05

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/21/22 16:00	01/23/22 01:46	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/21/22 16:00	01/23/22 01:46	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/21/22 16:00	01/23/22 01:46	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		01/21/22 16:00	01/23/22 01:46	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/21/22 16:00	01/23/22 01:46	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/21/22 16:00	01/23/22 01:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	01/21/22 16:00	01/23/22 01:46	1
1,4-Difluorobenzene (Surr)	70		70 - 130	01/21/22 16:00	01/23/22 01:46	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 5 (.5'-1')

Lab Sample ID: 820-3188-14

Date Collected: 01/19/22 13:05

Matrix: Soil

Date Received: 01/20/22 15:55

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/25/22 11:51	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/24/22 09:02	01/25/22 18:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/24/22 09:02	01/25/22 18:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/24/22 09:02	01/25/22 18:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	110		70 - 130				01/24/22 09:02	01/25/22 18:28	1
o-Terphenyl (Surr)	127		70 - 130				01/24/22 09:02	01/25/22 18:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6540		50.0		mg/Kg			01/25/22 21:57	10

Client Sample ID: HA-5 (1.5'-2')

Lab Sample ID: 820-3188-15

Date Collected: 01/19/22 13:10

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/23/22 02:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/23/22 02:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/23/22 02:13	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		01/21/22 16:00	01/23/22 02:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/23/22 02:13	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/21/22 16:00	01/23/22 02:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				01/21/22 16:00	01/23/22 02:13	1
1,4-Difluorobenzene (Surr)	96		70 - 130				01/21/22 16:00	01/23/22 02:13	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/25/22 11:51	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/24/22 09:02	01/25/22 18:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/24/22 09:02	01/25/22 18:50	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA-5 (1.5'-2')

Lab Sample ID: 820-3188-15

Date Collected: 01/19/22 13:10

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/24/22 09:02	01/25/22 18:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	113		70 - 130				01/24/22 09:02	01/25/22 18:50	1
o-Terphenyl (Surr)	134	S1+	70 - 130				01/24/22 09:02	01/25/22 18:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5380		49.7		mg/Kg			01/25/22 22:04	10

Client Sample ID: HA- 5 (3.5'-4')

Lab Sample ID: 820-3188-16

Date Collected: 01/19/22 13:15

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/21/22 16:00	01/23/22 02:40	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/21/22 16:00	01/23/22 02:40	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/21/22 16:00	01/23/22 02:40	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		01/21/22 16:00	01/23/22 02:40	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/21/22 16:00	01/23/22 02:40	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/21/22 16:00	01/23/22 02:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				01/21/22 16:00	01/23/22 02:40	1
1,4-Difluorobenzene (Surr)	100		70 - 130				01/21/22 16:00	01/23/22 02:40	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			01/25/22 11:51	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/24/22 09:02	01/25/22 19:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/24/22 09:02	01/25/22 19:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/24/22 09:02	01/25/22 19:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	107		70 - 130				01/24/22 09:02	01/25/22 19:11	1
o-Terphenyl (Surr)	123		70 - 130				01/24/22 09:02	01/25/22 19:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2500		25.1		mg/Kg			01/25/22 22:10	5

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 5 (4.5'-5')

Lab Sample ID: 820-3188-17

Date Collected: 01/19/22 13:20

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/21/22 16:00	01/23/22 03:07	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/21/22 16:00	01/23/22 03:07	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/21/22 16:00	01/23/22 03:07	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		01/21/22 16:00	01/23/22 03:07	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/21/22 16:00	01/23/22 03:07	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/21/22 16:00	01/23/22 03:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	01/21/22 16:00	01/23/22 03:07	1
1,4-Difluorobenzene (Surr)	103		70 - 130	01/21/22 16:00	01/23/22 03:07	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/25/22 11:51	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/24/22 09:02	01/25/22 19:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/24/22 09:02	01/25/22 19:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/24/22 09:02	01/25/22 19:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	104		70 - 130	01/24/22 09:02	01/25/22 19:32	1
o-Terphenyl (Surr)	120		70 - 130	01/24/22 09:02	01/25/22 19:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3530		24.9		mg/Kg			01/25/22 22:17	5

Client Sample ID: HA- 6 (0-.5')

Lab Sample ID: 820-3188-18

Date Collected: 01/19/22 13:25

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/21/22 16:00	01/23/22 03:35	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/21/22 16:00	01/23/22 03:35	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/21/22 16:00	01/23/22 03:35	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		01/21/22 16:00	01/23/22 03:35	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/21/22 16:00	01/23/22 03:35	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/21/22 16:00	01/23/22 03:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	01/21/22 16:00	01/23/22 03:35	1
1,4-Difluorobenzene (Surr)	106		70 - 130	01/21/22 16:00	01/23/22 03:35	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 6 (0-.5')

Lab Sample ID: 820-3188-18

Date Collected: 01/19/22 13:25

Matrix: Soil

Date Received: 01/20/22 15:55

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/25/22 11:51	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/24/22 09:02	01/25/22 19:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/24/22 09:02	01/25/22 19:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/24/22 09:02	01/25/22 19:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	108		70 - 130				01/24/22 09:02	01/25/22 19:53	1
o-Terphenyl (Surr)	129		70 - 130				01/24/22 09:02	01/25/22 19:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6330		49.5		mg/Kg			01/25/22 22:23	10

Client Sample ID: HA- 6 (.5'-1')

Lab Sample ID: 820-3188-19

Date Collected: 01/19/22 13:30

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/21/22 16:00	01/23/22 04:02	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/21/22 16:00	01/23/22 04:02	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/21/22 16:00	01/23/22 04:02	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		01/21/22 16:00	01/23/22 04:02	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/21/22 16:00	01/23/22 04:02	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/21/22 16:00	01/23/22 04:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				01/21/22 16:00	01/23/22 04:02	1
1,4-Difluorobenzene (Surr)	110		70 - 130				01/21/22 16:00	01/23/22 04:02	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/25/22 11:51	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/24/22 09:02	01/25/22 20:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/24/22 09:02	01/25/22 20:14	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 6 (.5'-1')

Lab Sample ID: 820-3188-19

Date Collected: 01/19/22 13:30

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/24/22 09:02	01/25/22 20:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	104		70 - 130				01/24/22 09:02	01/25/22 20:14	1
o-Terphenyl (Surr)	122		70 - 130				01/24/22 09:02	01/25/22 20:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6010		50.4		mg/Kg			01/25/22 22:29	10

Client Sample ID: HA- 6 (1.5'-2')

Lab Sample ID: 820-3188-20

Date Collected: 01/19/22 13:35

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/21/22 16:00	01/23/22 04:29	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/21/22 16:00	01/23/22 04:29	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/21/22 16:00	01/23/22 04:29	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		01/21/22 16:00	01/23/22 04:29	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/21/22 16:00	01/23/22 04:29	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/21/22 16:00	01/23/22 04:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				01/21/22 16:00	01/23/22 04:29	1
1,4-Difluorobenzene (Surr)	104		70 - 130				01/21/22 16:00	01/23/22 04:29	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			01/25/22 11:51	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/24/22 09:02	01/25/22 20:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/24/22 09:02	01/25/22 20:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/24/22 09:02	01/25/22 20:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	107		70 - 130				01/24/22 09:02	01/25/22 20:36	1
o-Terphenyl (Surr)	128		70 - 130				01/24/22 09:02	01/25/22 20:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4740		24.9		mg/Kg			01/25/22 22:36	5

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 7 (0-.5')

Lab Sample ID: 820-3188-21

Date Collected: 01/19/22 13:40

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/21/22 16:00	01/21/22 23:50	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/21/22 16:00	01/21/22 23:50	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/21/22 16:00	01/21/22 23:50	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/21/22 16:00	01/21/22 23:50	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/21/22 16:00	01/21/22 23:50	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/21/22 16:00	01/21/22 23:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	01/21/22 16:00	01/21/22 23:50	1
1,4-Difluorobenzene (Surr)	100		70 - 130	01/21/22 16:00	01/21/22 23:50	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/25/22 11:51	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	49.9		mg/Kg		01/24/22 09:18	01/25/22 12:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U F1	49.9		mg/Kg		01/24/22 09:18	01/25/22 12:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/24/22 09:18	01/25/22 12:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130	01/24/22 09:18	01/25/22 12:38	1
o-Terphenyl (Surr)	106		70 - 130	01/24/22 09:18	01/25/22 12:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8120	F1	49.9		mg/Kg			01/26/22 02:23	10

Client Sample ID: HA- 7 (.5'-1')

Lab Sample ID: 820-3188-22

Date Collected: 01/19/22 13:45

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/21/22 16:00	01/22/22 00:11	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/21/22 16:00	01/22/22 00:11	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/21/22 16:00	01/22/22 00:11	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		01/21/22 16:00	01/22/22 00:11	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/21/22 16:00	01/22/22 00:11	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/21/22 16:00	01/22/22 00:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	01/21/22 16:00	01/22/22 00:11	1
1,4-Difluorobenzene (Surr)	97		70 - 130	01/21/22 16:00	01/22/22 00:11	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 7 (.5'-1')

Lab Sample ID: 820-3188-22

Date Collected: 01/19/22 13:45

Matrix: Soil

Date Received: 01/20/22 15:55

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			01/25/22 11:51	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/24/22 09:18	01/25/22 13:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/24/22 09:18	01/25/22 13:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/24/22 09:18	01/25/22 13:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130				01/24/22 09:18	01/25/22 13:43	1
o-Terphenyl (Surr)	113		70 - 130				01/24/22 09:18	01/25/22 13:43	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7230		49.6		mg/Kg			01/26/22 02:59	10

Client Sample ID: HA- 7 (1.5'-2)

Lab Sample ID: 820-3188-23

Date Collected: 01/19/22 13:50

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/22/22 00:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/22/22 00:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/22/22 00:31	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/21/22 16:00	01/22/22 00:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/22/22 00:31	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/21/22 16:00	01/22/22 00:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				01/21/22 16:00	01/22/22 00:31	1
1,4-Difluorobenzene (Surr)	99		70 - 130				01/21/22 16:00	01/22/22 00:31	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			01/25/22 11:51	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/24/22 09:18	01/25/22 14:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/24/22 09:18	01/25/22 14:05	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 7 (1.5'-2)

Lab Sample ID: 820-3188-23

Date Collected: 01/19/22 13:50

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/24/22 09:18	01/25/22 14:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	120		70 - 130				01/24/22 09:18	01/25/22 14:05	1
o-Terphenyl (Surr)	135	S1+	70 - 130				01/24/22 09:18	01/25/22 14:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	823		24.8		mg/Kg			01/26/22 03:11	5

Client Sample ID: HA- 8 (0-.5')

Lab Sample ID: 820-3188-24

Date Collected: 01/19/22 13:55

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/21/22 16:00	01/22/22 00:52	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/21/22 16:00	01/22/22 00:52	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/21/22 16:00	01/22/22 00:52	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/21/22 16:00	01/22/22 00:52	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/21/22 16:00	01/22/22 00:52	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/21/22 16:00	01/22/22 00:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				01/21/22 16:00	01/22/22 00:52	1
1,4-Difluorobenzene (Surr)	100		70 - 130				01/21/22 16:00	01/22/22 00:52	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/25/22 11:51	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	222		49.9		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/24/22 09:18	01/25/22 14:27	1
Diesel Range Organics (Over C10-C28)	222		49.9		mg/Kg		01/24/22 09:18	01/25/22 14:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/24/22 09:18	01/25/22 14:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	89		70 - 130				01/24/22 09:18	01/25/22 14:27	1
o-Terphenyl (Surr)	97		70 - 130				01/24/22 09:18	01/25/22 14:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9750		101		mg/Kg			01/26/22 03:22	20

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 8 (.5'-1')

Lab Sample ID: 820-3188-25

Date Collected: 01/19/22 14:00

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/21/22 16:00	01/22/22 01:13	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/21/22 16:00	01/22/22 01:13	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/21/22 16:00	01/22/22 01:13	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		01/21/22 16:00	01/22/22 01:13	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/21/22 16:00	01/22/22 01:13	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/21/22 16:00	01/22/22 01:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	01/21/22 16:00	01/22/22 01:13	1
1,4-Difluorobenzene (Surr)	93		70 - 130	01/21/22 16:00	01/22/22 01:13	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/25/22 11:51	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/24/22 09:18	01/25/22 14:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/24/22 09:18	01/25/22 14:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/24/22 09:18	01/25/22 14:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	93		70 - 130	01/24/22 09:18	01/25/22 14:48	1
o-Terphenyl (Surr)	103		70 - 130	01/24/22 09:18	01/25/22 14:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12100		49.7		mg/Kg			01/26/22 03:34	10

Client Sample ID: HA- 8 (1.5'-2')

Lab Sample ID: 820-3188-26

Date Collected: 01/19/22 14:05

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/22/22 01:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/22/22 01:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/22/22 01:33	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		01/21/22 16:00	01/22/22 01:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/22/22 01:33	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/21/22 16:00	01/22/22 01:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	01/21/22 16:00	01/22/22 01:33	1
1,4-Difluorobenzene (Surr)	95		70 - 130	01/21/22 16:00	01/22/22 01:33	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 8 (1.5'-2')

Lab Sample ID: 820-3188-26

Date Collected: 01/19/22 14:05

Matrix: Soil

Date Received: 01/20/22 15:55

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/25/22 11:51	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/24/22 09:18	01/25/22 15:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/24/22 09:18	01/25/22 15:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/24/22 09:18	01/25/22 15:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130				01/24/22 09:18	01/25/22 15:11	1
o-Terphenyl (Surr)	113		70 - 130				01/24/22 09:18	01/25/22 15:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5830		49.8		mg/Kg			01/26/22 04:10	10

Client Sample ID: HA- 9 (0-.5')

Lab Sample ID: 820-3188-27

Date Collected: 01/19/22 14:10

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/21/22 16:00	01/22/22 01:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/21/22 16:00	01/22/22 01:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/21/22 16:00	01/22/22 01:53	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/21/22 16:00	01/22/22 01:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/21/22 16:00	01/22/22 01:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/21/22 16:00	01/22/22 01:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				01/21/22 16:00	01/22/22 01:53	1
1,4-Difluorobenzene (Surr)	103		70 - 130				01/21/22 16:00	01/22/22 01:53	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/25/22 12:30	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/24/22 09:18	01/25/22 15:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/24/22 09:18	01/25/22 15:33	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 9 (0-.5')

Lab Sample ID: 820-3188-27

Date Collected: 01/19/22 14:10

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/24/22 09:18	01/25/22 15:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	92		70 - 130				01/24/22 09:18	01/25/22 15:33	1
o-Terphenyl (Surr)	103		70 - 130				01/24/22 09:18	01/25/22 15:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6900		49.5		mg/Kg			01/26/22 04:22	10

Client Sample ID: HA- 9 (.5'-1')

Lab Sample ID: 820-3188-28

Date Collected: 01/19/22 14:15

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/21/22 16:00	01/22/22 02:14	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/21/22 16:00	01/22/22 02:14	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/21/22 16:00	01/22/22 02:14	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		01/21/22 16:00	01/22/22 02:14	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/21/22 16:00	01/22/22 02:14	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/21/22 16:00	01/22/22 02:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				01/21/22 16:00	01/22/22 02:14	1
1,4-Difluorobenzene (Surr)	99		70 - 130				01/21/22 16:00	01/22/22 02:14	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			01/25/22 12:30	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/24/22 09:18	01/25/22 15:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/24/22 09:18	01/25/22 15:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/24/22 09:18	01/25/22 15:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	91		70 - 130				01/24/22 09:18	01/25/22 15:55	1
o-Terphenyl (Surr)	100		70 - 130				01/24/22 09:18	01/25/22 15:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5490		49.5		mg/Kg			01/26/22 04:34	10

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 9 (1.5'-2')

Lab Sample ID: 820-3188-29

Date Collected: 01/19/22 14:20

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/22/22 02:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/22/22 02:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/22/22 02:34	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		01/21/22 16:00	01/22/22 02:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/22/22 02:34	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/21/22 16:00	01/22/22 02:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	01/21/22 16:00	01/22/22 02:34	1
1,4-Difluorobenzene (Surr)	107		70 - 130	01/21/22 16:00	01/22/22 02:34	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/25/22 12:30	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/24/22 09:18	01/25/22 16:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/24/22 09:18	01/25/22 16:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/24/22 09:18	01/25/22 16:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130	01/24/22 09:18	01/25/22 16:17	1
o-Terphenyl (Surr)	100		70 - 130	01/24/22 09:18	01/25/22 16:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3430		25.3		mg/Kg			01/26/22 04:45	5

Client Sample ID: HA- 10 (0-.5')

Lab Sample ID: 820-3188-30

Date Collected: 01/19/22 14:25

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/22/22 02:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/22/22 02:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/22/22 02:55	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		01/21/22 16:00	01/22/22 02:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/22/22 02:55	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/21/22 16:00	01/22/22 02:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	01/21/22 16:00	01/22/22 02:55	1
1,4-Difluorobenzene (Surr)	106		70 - 130	01/21/22 16:00	01/22/22 02:55	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 10 (0-.5')

Lab Sample ID: 820-3188-30

Date Collected: 01/19/22 14:25

Matrix: Soil

Date Received: 01/20/22 15:55

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/25/22 12:30	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/24/22 09:18	01/25/22 16:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/24/22 09:18	01/25/22 16:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/24/22 09:18	01/25/22 16:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130				01/24/22 09:18	01/25/22 16:40	1
o-Terphenyl (Surr)	105		70 - 130				01/24/22 09:18	01/25/22 16:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6040		49.9		mg/Kg			01/26/22 04:57	10

Client Sample ID: HA- 10 (.5'-1')

Lab Sample ID: 820-3188-31

Date Collected: 01/19/22 14:30

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/21/22 16:00	01/22/22 04:18	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/21/22 16:00	01/22/22 04:18	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/21/22 16:00	01/22/22 04:18	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		01/21/22 16:00	01/22/22 04:18	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/21/22 16:00	01/22/22 04:18	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/21/22 16:00	01/22/22 04:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				01/21/22 16:00	01/22/22 04:18	1
1,4-Difluorobenzene (Surr)	105		70 - 130				01/21/22 16:00	01/22/22 04:18	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			01/25/22 12:30	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/24/22 09:18	01/25/22 17:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/24/22 09:18	01/25/22 17:24	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 10 (.5'-1')

Lab Sample ID: 820-3188-31

Date Collected: 01/19/22 14:30

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/24/22 09:18	01/25/22 17:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130				01/24/22 09:18	01/25/22 17:24	1
o-Terphenyl (Surr)	111		70 - 130				01/24/22 09:18	01/25/22 17:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5100	F1	49.8		mg/Kg			01/26/22 05:09	10

Client Sample ID: HA- 10 (1.5'-2')

Lab Sample ID: 820-3188-32

Date Collected: 01/19/22 14:35

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/21/22 16:00	01/22/22 04:39	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/21/22 16:00	01/22/22 04:39	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/21/22 16:00	01/22/22 04:39	1
m,p-Xylenes	<0.00397	U	0.00397		mg/Kg		01/21/22 16:00	01/22/22 04:39	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/21/22 16:00	01/22/22 04:39	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		01/21/22 16:00	01/22/22 04:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				01/21/22 16:00	01/22/22 04:39	1
1,4-Difluorobenzene (Surr)	100		70 - 130				01/21/22 16:00	01/22/22 04:39	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			01/25/22 12:30	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/24/22 09:18	01/25/22 17:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/24/22 09:18	01/25/22 17:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/24/22 09:18	01/25/22 17:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	128		70 - 130				01/24/22 09:18	01/25/22 17:46	1
o-Terphenyl (Surr)	142	S1+	70 - 130				01/24/22 09:18	01/25/22 17:46	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5910		50.4		mg/Kg			01/26/22 05:45	10

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 11 (0-.5')

Lab Sample ID: 820-3188-33

Date Collected: 01/19/22 14:40

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/21/22 16:00	01/22/22 04:59	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/21/22 16:00	01/22/22 04:59	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/21/22 16:00	01/22/22 04:59	1
m,p-Xylenes	<0.00397	U	0.00397		mg/Kg		01/21/22 16:00	01/22/22 04:59	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/21/22 16:00	01/22/22 04:59	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		01/21/22 16:00	01/22/22 04:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	01/21/22 16:00	01/22/22 04:59	1
1,4-Difluorobenzene (Surr)	98		70 - 130	01/21/22 16:00	01/22/22 04:59	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			01/25/22 12:30	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/24/22 09:18	01/25/22 18:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/24/22 09:18	01/25/22 18:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/24/22 09:18	01/25/22 18:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	135	S1+	70 - 130	01/24/22 09:18	01/25/22 18:07	1
o-Terphenyl (Surr)	152	S1+	70 - 130	01/24/22 09:18	01/25/22 18:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5170		49.9		mg/Kg			01/26/22 05:57	10

Client Sample ID: HA- 11 (.5'-1')

Lab Sample ID: 820-3188-34

Date Collected: 01/19/22 14:45

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/21/22 16:00	01/22/22 05:20	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/21/22 16:00	01/22/22 05:20	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/21/22 16:00	01/22/22 05:20	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/21/22 16:00	01/22/22 05:20	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/21/22 16:00	01/22/22 05:20	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/21/22 16:00	01/22/22 05:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	01/21/22 16:00	01/22/22 05:20	1
1,4-Difluorobenzene (Surr)	106		70 - 130	01/21/22 16:00	01/22/22 05:20	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 11 (.5'-1')

Lab Sample ID: 820-3188-34

Date Collected: 01/19/22 14:45

Matrix: Soil

Date Received: 01/20/22 15:55

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/25/22 12:30	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/24/22 09:18	01/25/22 18:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/24/22 09:18	01/25/22 18:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/24/22 09:18	01/25/22 18:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130				01/24/22 09:18	01/25/22 18:28	1
o-Terphenyl (Surr)	110		70 - 130				01/24/22 09:18	01/25/22 18:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6360	^2	50.0		mg/Kg			01/26/22 06:32	10

Client Sample ID: HA- 11 (1.5'-2')

Lab Sample ID: 820-3188-35

Date Collected: 01/19/22 14:50

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/21/22 16:00	01/22/22 05:40	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/21/22 16:00	01/22/22 05:40	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/21/22 16:00	01/22/22 05:40	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		01/21/22 16:00	01/22/22 05:40	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/21/22 16:00	01/22/22 05:40	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/21/22 16:00	01/22/22 05:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130				01/21/22 16:00	01/22/22 05:40	1
1,4-Difluorobenzene (Surr)	83		70 - 130				01/21/22 16:00	01/22/22 05:40	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			01/25/22 12:30	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/24/22 09:18	01/25/22 18:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/24/22 09:18	01/25/22 18:50	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 11 (1.5'-2')

Lab Sample ID: 820-3188-35

Date Collected: 01/19/22 14:50

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/24/22 09:18	01/25/22 18:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	100		70 - 130				01/24/22 09:18	01/25/22 18:50	1
o-Terphenyl (Surr)	108		70 - 130				01/24/22 09:18	01/25/22 18:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6480	^2	49.7		mg/Kg			01/26/22 06:44	10

Client Sample ID: HA- 12 (0-.5')

Lab Sample ID: 820-3188-36

Date Collected: 01/19/22 14:55

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/21/22 16:00	01/22/22 06:01	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/21/22 16:00	01/22/22 06:01	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/21/22 16:00	01/22/22 06:01	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/21/22 16:00	01/22/22 06:01	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/21/22 16:00	01/22/22 06:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/21/22 16:00	01/22/22 06:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				01/21/22 16:00	01/22/22 06:01	1
1,4-Difluorobenzene (Surr)	105		70 - 130				01/21/22 16:00	01/22/22 06:01	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/25/22 12:30	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/24/22 09:18	01/25/22 19:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/24/22 09:18	01/25/22 19:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/24/22 09:18	01/25/22 19:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130				01/24/22 09:18	01/25/22 19:11	1
o-Terphenyl (Surr)	105		70 - 130				01/24/22 09:18	01/25/22 19:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4800	^2	50.0		mg/Kg			01/26/22 06:56	10

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 12 (.5'-1')

Lab Sample ID: 820-3188-37

Date Collected: 01/19/22 15:00

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/21/22 16:00	01/22/22 06:21	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/21/22 16:00	01/22/22 06:21	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/21/22 16:00	01/22/22 06:21	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		01/21/22 16:00	01/22/22 06:21	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/21/22 16:00	01/22/22 06:21	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/21/22 16:00	01/22/22 06:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	01/21/22 16:00	01/22/22 06:21	1
1,4-Difluorobenzene (Surr)	111		70 - 130	01/21/22 16:00	01/22/22 06:21	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/25/22 12:30	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/24/22 09:18	01/25/22 19:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/24/22 09:18	01/25/22 19:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/24/22 09:18	01/25/22 19:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	106		70 - 130	01/24/22 09:18	01/25/22 19:32	1
o-Terphenyl (Surr)	117		70 - 130	01/24/22 09:18	01/25/22 19:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3330	^2	25.0		mg/Kg			01/26/22 08:40	5

Client Sample ID: HA- 12 (1.5'-2')

Lab Sample ID: 820-3188-38

Date Collected: 01/19/22 15:05

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/22/22 06:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/22/22 06:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/22/22 06:41	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		01/21/22 16:00	01/22/22 06:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/22/22 06:41	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/21/22 16:00	01/22/22 06:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130	01/21/22 16:00	01/22/22 06:41	1
1,4-Difluorobenzene (Surr)	82		70 - 130	01/21/22 16:00	01/22/22 06:41	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 12 (1.5'-2')

Lab Sample ID: 820-3188-38

Date Collected: 01/19/22 15:05

Matrix: Soil

Date Received: 01/20/22 15:55

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/25/22 12:30	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/24/22 09:18	01/25/22 19:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/24/22 09:18	01/25/22 19:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/24/22 09:18	01/25/22 19:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	114		70 - 130				01/24/22 09:18	01/25/22 19:53	1
o-Terphenyl (Surr)	132	S1+	70 - 130				01/24/22 09:18	01/25/22 19:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4290	^2	24.8		mg/Kg			01/26/22 08:51	5

Client Sample ID: HA- 13 (0-.5')

Lab Sample ID: 820-3188-39

Date Collected: 01/19/22 15:10

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/21/22 16:00	01/22/22 07:02	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/21/22 16:00	01/22/22 07:02	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/21/22 16:00	01/22/22 07:02	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		01/21/22 16:00	01/22/22 07:02	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/21/22 16:00	01/22/22 07:02	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/21/22 16:00	01/22/22 07:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				01/21/22 16:00	01/22/22 07:02	1
1,4-Difluorobenzene (Surr)	103		70 - 130				01/21/22 16:00	01/22/22 07:02	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			01/25/22 12:30	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	108		50.0		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/24/22 09:18	01/25/22 20:14	1
Diesel Range Organics (Over C10-C28)	108		50.0		mg/Kg		01/24/22 09:18	01/25/22 20:14	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 13 (0-.5')

Lab Sample ID: 820-3188-39

Date Collected: 01/19/22 15:10

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/24/22 09:18	01/25/22 20:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130				01/24/22 09:18	01/25/22 20:14	1
o-Terphenyl (Surr)	108		70 - 130				01/24/22 09:18	01/25/22 20:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5660	^2	49.9		mg/Kg			01/26/22 09:03	10

Client Sample ID: HA- 13 (.5'-1')

Lab Sample ID: 820-3188-40

Date Collected: 01/19/22 15:15

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/21/22 16:00	01/22/22 07:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/21/22 16:00	01/22/22 07:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/21/22 16:00	01/22/22 07:22	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/21/22 16:00	01/22/22 07:22	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/21/22 16:00	01/22/22 07:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/21/22 16:00	01/22/22 07:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				01/21/22 16:00	01/22/22 07:22	1
1,4-Difluorobenzene (Surr)	106		70 - 130				01/21/22 16:00	01/22/22 07:22	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/25/22 12:30	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/24/22 09:18	01/25/22 20:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/24/22 09:18	01/25/22 20:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/24/22 09:18	01/25/22 20:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	108		70 - 130				01/24/22 09:18	01/25/22 20:36	1
o-Terphenyl (Surr)	117		70 - 130				01/24/22 09:18	01/25/22 20:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4490	^2	49.5		mg/Kg			01/26/22 09:15	10

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 13 (1.5'-2')

Lab Sample ID: 820-3188-41

Date Collected: 01/19/22 15:20

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/22/22 02:57	1
Toluene	0.00269		0.00200		mg/Kg		01/21/22 16:00	01/22/22 02:57	1
Ethylbenzene	0.00215	B	0.00200		mg/Kg		01/21/22 16:00	01/22/22 02:57	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/21/22 16:00	01/22/22 02:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/22/22 02:57	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/21/22 16:00	01/22/22 02:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130	01/21/22 16:00	01/22/22 02:57	1
1,4-Difluorobenzene (Surr)	99		70 - 130	01/21/22 16:00	01/22/22 02:57	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00484		0.00400		mg/Kg			01/25/22 12:30	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/24/22 14:40	01/24/22 23:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/24/22 14:40	01/24/22 23:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/24/22 14:40	01/24/22 23:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	91		70 - 130	01/24/22 14:40	01/24/22 23:58	1
o-Terphenyl (Surr)	110		70 - 130	01/24/22 14:40	01/24/22 23:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3360	F1	25.0		mg/Kg			01/28/22 03:02	5

Client Sample ID: HA- 14 (0-.5')

Lab Sample ID: 820-3188-42

Date Collected: 01/19/22 15:25

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/21/22 16:00	01/22/22 04:48	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/21/22 16:00	01/22/22 04:48	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/21/22 16:00	01/22/22 04:48	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/21/22 16:00	01/22/22 04:48	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/21/22 16:00	01/22/22 04:48	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/21/22 16:00	01/22/22 04:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	01/21/22 16:00	01/22/22 04:48	1
1,4-Difluorobenzene (Surr)	102		70 - 130	01/21/22 16:00	01/22/22 04:48	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 14 (0-.5')

Lab Sample ID: 820-3188-42

Date Collected: 01/19/22 15:25

Matrix: Soil

Date Received: 01/20/22 15:55

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/25/22 12:30	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/24/22 14:40	01/25/22 01:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/24/22 14:40	01/25/22 01:00	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/24/22 14:40	01/25/22 01:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	89		70 - 130				01/24/22 14:40	01/25/22 01:00	1
o-Terphenyl (Surr)	108		70 - 130				01/24/22 14:40	01/25/22 01:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8840		49.5		mg/Kg			01/28/22 03:25	10

Client Sample ID: HA- 14 (.5'-1')

Lab Sample ID: 820-3188-43

Date Collected: 01/19/22 15:30

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/21/22 16:00	01/22/22 05:08	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/21/22 16:00	01/22/22 05:08	1
Ethylbenzene	0.00304	B	0.00201		mg/Kg		01/21/22 16:00	01/22/22 05:08	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		01/21/22 16:00	01/22/22 05:08	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/21/22 16:00	01/22/22 05:08	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/21/22 16:00	01/22/22 05:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				01/21/22 16:00	01/22/22 05:08	1
1,4-Difluorobenzene (Surr)	92		70 - 130				01/21/22 16:00	01/22/22 05:08	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/25/22 12:30	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/24/22 14:40	01/25/22 01:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/24/22 14:40	01/25/22 01:21	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 14 (.5'-1')

Lab Sample ID: 820-3188-43

Date Collected: 01/19/22 15:30

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/24/22 14:40	01/25/22 01:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	90		70 - 130				01/24/22 14:40	01/25/22 01:21	1
o-Terphenyl (Surr)	110		70 - 130				01/24/22 14:40	01/25/22 01:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7710		50.2		mg/Kg			01/28/22 03:32	10

Client Sample ID: HA- 15 (0-.5')

Lab Sample ID: 820-3188-44

Date Collected: 01/19/22 15:35

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00198		0.00198		mg/Kg		01/21/22 16:00	01/22/22 05:29	1
Toluene	0.00921		0.00198		mg/Kg		01/21/22 16:00	01/22/22 05:29	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/21/22 16:00	01/22/22 05:29	1
m,p-Xylenes	0.00977		0.00396		mg/Kg		01/21/22 16:00	01/22/22 05:29	1
o-Xylene	0.00332		0.00198		mg/Kg		01/21/22 16:00	01/22/22 05:29	1
Xylenes, Total	0.0131		0.00396		mg/Kg		01/21/22 16:00	01/22/22 05:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				01/21/22 16:00	01/22/22 05:29	1
1,4-Difluorobenzene (Surr)	78		70 - 130				01/21/22 16:00	01/22/22 05:29	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0243		0.00396		mg/Kg			01/25/22 12:30	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/24/22 14:40	01/25/22 01:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/24/22 14:40	01/25/22 01:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/24/22 14:40	01/25/22 01:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		70 - 130				01/24/22 14:40	01/25/22 01:42	1
o-Terphenyl (Surr)	122		70 - 130				01/24/22 14:40	01/25/22 01:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14200		49.9		mg/Kg			01/28/22 03:40	10

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 15 (.5'-1')

Lab Sample ID: 820-3188-45

Date Collected: 01/19/22 15:40

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00701		0.00202		mg/Kg		01/21/22 16:00	01/22/22 05:49	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/21/22 16:00	01/22/22 05:49	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/21/22 16:00	01/22/22 05:49	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		01/21/22 16:00	01/22/22 05:49	1
o-Xylene	0.00236		0.00202		mg/Kg		01/21/22 16:00	01/22/22 05:49	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/21/22 16:00	01/22/22 05:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	155	S1+	70 - 130	01/21/22 16:00	01/22/22 05:49	1
1,4-Difluorobenzene (Surr)	127		70 - 130	01/21/22 16:00	01/22/22 05:49	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00937		0.00403		mg/Kg			01/25/22 12:30	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/24/22 14:40	01/25/22 02:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/24/22 14:40	01/25/22 02:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/24/22 14:40	01/25/22 02:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	86		70 - 130	01/24/22 14:40	01/25/22 02:03	1
o-Terphenyl (Surr)	102		70 - 130	01/24/22 14:40	01/25/22 02:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4770		24.8		mg/Kg			01/28/22 08:56	5

Client Sample ID: HA- 15 (1.5'-2')

Lab Sample ID: 820-3188-46

Date Collected: 01/19/22 15:45

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/22/22 06:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/22/22 06:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/22/22 06:09	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		01/21/22 16:00	01/22/22 06:09	1
o-Xylene	0.00521		0.00200		mg/Kg		01/21/22 16:00	01/22/22 06:09	1
Xylenes, Total	0.00521		0.00401		mg/Kg		01/21/22 16:00	01/22/22 06:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130	01/21/22 16:00	01/22/22 06:09	1
1,4-Difluorobenzene (Surr)	103		70 - 130	01/21/22 16:00	01/22/22 06:09	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 15 (1.5'-2')

Lab Sample ID: 820-3188-46

Date Collected: 01/19/22 15:45

Matrix: Soil

Date Received: 01/20/22 15:55

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00521		0.00401		mg/Kg			01/25/22 12:30	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/24/22 14:40	01/25/22 02:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/24/22 14:40	01/25/22 02:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/24/22 14:40	01/25/22 02:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	81		70 - 130				01/24/22 14:40	01/25/22 02:24	1
o-Terphenyl (Surr)	102		70 - 130				01/24/22 14:40	01/25/22 02:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8050		50.4		mg/Kg			01/28/22 20:41	10

Client Sample ID: HA- 16 (0-.5')

Lab Sample ID: 820-3188-47

Date Collected: 01/19/22 15:50

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/21/22 16:00	01/22/22 06:30	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/21/22 16:00	01/22/22 06:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/21/22 16:00	01/22/22 06:30	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		01/21/22 16:00	01/22/22 06:30	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/21/22 16:00	01/22/22 06:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/21/22 16:00	01/22/22 06:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130				01/21/22 16:00	01/22/22 06:30	1
1,4-Difluorobenzene (Surr)	71		70 - 130				01/21/22 16:00	01/22/22 06:30	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/25/22 12:30	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/24/22 14:40	01/25/22 02:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/24/22 14:40	01/25/22 02:45	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 16 (0-.5')

Lab Sample ID: 820-3188-47

Date Collected: 01/19/22 15:50

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/24/22 14:40	01/25/22 02:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	88		70 - 130				01/24/22 14:40	01/25/22 02:45	1
o-Terphenyl (Surr)	106		70 - 130				01/24/22 14:40	01/25/22 02:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8280		49.7		mg/Kg			01/28/22 20:48	10

Client Sample ID: HA- 16 (.5'-1')

Lab Sample ID: 820-3188-48

Date Collected: 01/19/22 15:55

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/21/22 16:00	01/22/22 06:50	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/21/22 16:00	01/22/22 06:50	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/21/22 16:00	01/22/22 06:50	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		01/21/22 16:00	01/22/22 06:50	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/21/22 16:00	01/22/22 06:50	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/21/22 16:00	01/22/22 06:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130				01/21/22 16:00	01/22/22 06:50	1
1,4-Difluorobenzene (Surr)	109		70 - 130				01/21/22 16:00	01/22/22 06:50	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/25/22 12:30	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/24/22 14:40	01/25/22 03:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/24/22 14:40	01/25/22 03:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/24/22 14:40	01/25/22 03:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	90		70 - 130				01/24/22 14:40	01/25/22 03:06	1
o-Terphenyl (Surr)	103		70 - 130				01/24/22 14:40	01/25/22 03:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8600		49.9		mg/Kg			01/28/22 20:56	10

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 16 (1.5'-2')

Lab Sample ID: 820-3188-49

Date Collected: 01/19/22 16:00

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/22/22 07:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/22/22 07:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/22/22 07:11	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/21/22 16:00	01/22/22 07:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/22/22 07:11	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/21/22 16:00	01/22/22 07:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	01/21/22 16:00	01/22/22 07:11	1
1,4-Difluorobenzene (Surr)	107		70 - 130	01/21/22 16:00	01/22/22 07:11	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			01/25/22 12:30	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/24/22 14:40	01/25/22 03:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/24/22 14:40	01/25/22 03:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/24/22 14:40	01/25/22 03:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	87		70 - 130	01/24/22 14:40	01/25/22 03:27	1
o-Terphenyl (Surr)	105		70 - 130	01/24/22 14:40	01/25/22 03:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8040		50.0		mg/Kg			01/28/22 21:03	10

Client Sample ID: HA- 16 (3.5'-4')

Lab Sample ID: 820-3188-50

Date Collected: 01/19/22 16:05

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/22/22 07:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/22/22 07:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/22/22 07:31	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		01/21/22 16:00	01/22/22 07:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/22/22 07:31	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/21/22 16:00	01/22/22 07:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130	01/21/22 16:00	01/22/22 07:31	1
1,4-Difluorobenzene (Surr)	100		70 - 130	01/21/22 16:00	01/22/22 07:31	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 16 (3.5'-4')

Lab Sample ID: 820-3188-50

Date Collected: 01/19/22 16:05

Matrix: Soil

Date Received: 01/20/22 15:55

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/25/22 12:30	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/24/22 14:40	01/25/22 03:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/24/22 14:40	01/25/22 03:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/24/22 14:40	01/25/22 03:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	88		70 - 130				01/24/22 14:40	01/25/22 03:48	1
o-Terphenyl (Surr)	101		70 - 130				01/24/22 14:40	01/25/22 03:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12000		50.0		mg/Kg			01/28/22 21:11	10

Client Sample ID: HA- 16 (4.5'-5')

Lab Sample ID: 820-3188-51

Date Collected: 01/19/22 16:10

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00203		0.00201		mg/Kg		01/21/22 16:00	01/22/22 07:52	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/21/22 16:00	01/22/22 07:52	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/21/22 16:00	01/22/22 07:52	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		01/21/22 16:00	01/22/22 07:52	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/21/22 16:00	01/22/22 07:52	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/21/22 16:00	01/22/22 07:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130				01/21/22 16:00	01/22/22 07:52	1
1,4-Difluorobenzene (Surr)	103		70 - 130				01/21/22 16:00	01/22/22 07:52	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/25/22 12:30	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/25/22 13:10	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/24/22 14:40	01/25/22 04:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/24/22 14:40	01/25/22 04:30	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 16 (4.5'-5')

Lab Sample ID: 820-3188-51

Date Collected: 01/19/22 16:10

Matrix: Soil

Date Received: 01/20/22 15:55

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/24/22 14:40	01/25/22 04:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	87		70 - 130	01/24/22 14:40	01/25/22 04:30	1
o-Terphenyl (Surr)	101		70 - 130	01/24/22 14:40	01/25/22 04:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15300	F1	99.0		mg/Kg			01/28/22 21:19	20

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Soil

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
820-3188-1	HA-1 (0-0.5')	95	85
820-3188-1 MS	HA-1 (0-0.5')	90	89
820-3188-1 MSD	HA-1 (0-0.5')	96	105
820-3188-2	HA- 1 (.5'-1')	135 S1+	80
820-3188-3	HA- 1 (1.5'-2')	111	102
820-3188-4	HA-2 (0-.5')	104	99
820-3188-5	HA- 2 (.5'-1')	96	97
820-3188-6	HA- 2 (1.5'-2')	104	99
820-3188-7	HA- 3 (0-.5')	117	103
820-3188-8	HA- 3 (.5'-1')	120	107
820-3188-9	HA- 3 ((1.5'-2')	99	99
820-3188-10	HA- 4 (0-.5')	113	105
820-3188-11	HA- 4 (.5'-1')	113	92
820-3188-12	HA-4 (1.5'-2')	113	97
820-3188-13	HA- 5 (0-.5')	133 S1+	78
820-3188-14	HA- 5 (.5'-1')	90	70
820-3188-15	HA-5 (1.5'-2')	97	96
820-3188-16	HA- 5 (3.5'-4')	99	100
820-3188-17	HA- 5 (4.5'-5')	110	103
820-3188-18	HA- 6 (0-.5')	105	106
820-3188-19	HA- 6 (.5'-1')	116	110
820-3188-20	HA- 6 (1.5'-2')	108	104
820-3188-21	HA- 7 (0-.5')	101	100
820-3188-21 MS	HA- 7 (0-.5')	108	95
820-3188-21 MSD	HA- 7 (0-.5')	103	94
820-3188-22	HA- 7 (.5'-1')	105	97
820-3188-23	HA- 7 (1.5'-2')	102	99
820-3188-24	HA- 8 (0-.5')	109	100
820-3188-25	HA- 8 (.5'-1')	111	93
820-3188-26	HA- 8 (1.5'-2')	108	95
820-3188-27	HA- 9 (0-.5')	104	103
820-3188-28	HA- 9 (.5'-1')	105	99
820-3188-29	HA- 9 (1.5'-2')	111	107
820-3188-30	HA- 10 (0-.5')	122	106
820-3188-31	HA- 10 (.5'-1')	103	105
820-3188-32	HA- 10 (1.5'-2')	97	100
820-3188-33	HA- 11 (0-.5')	110	98
820-3188-34	HA- 11 (.5'-1')	129	106
820-3188-35	HA- 11 (1.5'-2')	134 S1+	83
820-3188-36	HA- 12 (0-.5')	116	105
820-3188-37	HA- 12 (.5'-1')	115	111
820-3188-38	HA- 12 (1.5'-2')	132 S1+	82
820-3188-39	HA- 13 (0-.5')	99	103
820-3188-40	HA- 13 (.5'-1')	116	106
820-3188-41	HA- 13 (1.5'-2')	139 S1+	99
820-3188-42	HA- 14 (0-.5')	120	102
820-3188-43	HA- 14 (.5'-1')	117	92
820-3188-44	HA- 15 (0-.5')	126	78
820-3188-45	HA- 15 (.5'-1')	155 S1+	127

Eurofins Lubbock

Surrogate Summary

Client: Terracon Consulting Eng & Scientists

Job ID: 820-3188-1

Project/Site: KR Horz

SDG: AR227020

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Soil

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
820-3188-46	HA- 15 (1.5'-2')	135 S1+	103
820-3188-47	HA- 16 (0-.5')	135 S1+	71
820-3188-48	HA- 16 (.5'-1')	136 S1+	109
820-3188-49	HA- 16 (1.5'-2')	127	107
820-3188-50	HA- 16 (3.5'-4')	135 S1+	100
820-3188-51	HA- 16 (4.5'-5')	127	103
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-1840-A-5-J MS	Matrix Spike	117	99
890-1840-A-5-K MSD	Matrix Spike Duplicate	139 S1+	119
LCS 880-17388/1-A	Lab Control Sample	117	105
LCS 880-17424/1-A	Lab Control Sample	98	110
LCS 880-17426/1-A	Lab Control Sample	100	101
LCSD 880-17388/2-A	Lab Control Sample Dup	124	112
LCSD 880-17424/2-A	Lab Control Sample Dup	99	104
LCSD 880-17426/2-A	Lab Control Sample Dup	104	94
MB 880-17167/5-A	Method Blank	67 S1-	91
MB 880-17169/5-A	Method Blank	109	103
MB 880-17341/5-A	Method Blank	122	103
MB 880-17388/5-A	Method Blank	119	101
MB 880-17424/5-A	Method Blank	66 S1-	93
MB 880-17426/5-A	Method Blank	108	106
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Soil

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
820-3188-1	HA-1 (0-0.5')	113	134 S1+
820-3188-1 MS	HA-1 (0-0.5')	95	97
820-3188-1 MSD	HA-1 (0-0.5')	101	104
820-3188-2	HA- 1 (.5'-1')	98	113
820-3188-3	HA- 1 (1.5'-2')	95	112
820-3188-4	HA-2 (0-.5')	108	127
820-3188-5	HA- 2 (.5'-1')	95	114
820-3188-6	HA- 2 (1.5'-2')	98	117
820-3188-7	HA- 3 (0-.5')	90	106
820-3188-8	HA- 3 (.5'-1')	101	119

Eurofins Lubbock

Surrogate Summary

Client: Terracon Consulting Eng & Scientists

Job ID: 820-3188-1

Project/Site: KR Horz

SDG: AR227020

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Soil

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
820-3188-9	HA- 3 ((1.5'-2')	105	123
820-3188-10	HA- 4 (0-.5')	103	122
820-3188-11	HA- 4 (.5'-1')	102	118
820-3188-12	HA-4 (1.5'-2')	103	123
820-3188-13	HA- 5 (0-.5')	102	119
820-3188-14	HA- 5 (.5'-1')	110	127
820-3188-15	HA-5 (1.5'-2')	113	134 S1+
820-3188-16	HA- 5 (3.5'-4')	107	123
820-3188-17	HA- 5 (4.5'-5')	104	120
820-3188-18	HA- 6 (0-.5')	108	129
820-3188-19	HA- 6 (.5'-1')	104	122
820-3188-20	HA- 6 (1.5'-2')	107	128
820-3188-21	HA- 7 (0-.5')	96	106
820-3188-21 MS	HA- 7 (0-.5')	99	97
820-3188-21 MSD	HA- 7 (0-.5')	95	92
820-3188-22	HA- 7 (.5'-1')	102	113
820-3188-23	HA- 7 (1.5'-2)	120	135 S1+
820-3188-24	HA- 8 (0-.5')	89	97
820-3188-25	HA- 8 (.5'-1')	93	103
820-3188-26	HA- 8 (1.5'-2')	102	113
820-3188-27	HA- 9 (0-.5')	92	103
820-3188-28	HA- 9 (.5'-1')	91	100
820-3188-29	HA- 9 (1.5'-2')	94	100
820-3188-30	HA- 10 (0-.5')	97	105
820-3188-31	HA- 10 (.5'-1')	101	111
820-3188-32	HA- 10 (1.5'-2')	128	142 S1+
820-3188-33	HA- 11 (0-.5')	135 S1+	152 S1+
820-3188-34	HA- 11 (.5'-1')	102	110
820-3188-35	HA- 11 (1.5'-2')	100	108
820-3188-36	HA- 12 (0-.5')	96	105
820-3188-37	HA- 12 (.5'-1')	106	117
820-3188-38	HA- 12 (1.5'-2')	114	132 S1+
820-3188-39	HA- 13 (0-.5')	98	108
820-3188-40	HA- 13 (.5'-1')	108	117
820-3188-41	HA- 13 (1.5'-2')	91	110
820-3188-41 MS	HA- 13 (1.5'-2')	95	105
820-3188-41 MSD	HA- 13 (1.5'-2')	97	103
820-3188-42	HA- 14 (0-.5')	89	108
820-3188-43	HA- 14 (.5'-1')	90	110
820-3188-44	HA- 15 (0-.5')	98	122
820-3188-45	HA- 15 (.5'-1')	86	102
820-3188-46	HA- 15 (1.5'-2')	81	102
820-3188-47	HA- 16 (0-.5')	88	106
820-3188-48	HA- 16 (.5'-1')	90	103
820-3188-49	HA- 16 (1.5'-2')	87	105
820-3188-50	HA- 16 (3.5'-4')	88	101
820-3188-51	HA- 16 (4.5'-5')	87	101

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

Eurofins Lubbock

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz
OTPH = o-Terphenyl (Surr)

Job ID: 820-3188-1
SDG: AR227020

Method: 8015B NM - Diesel Range Organics (DRO) (GC)
Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
LCS 880-17528/2-A	Lab Control Sample	107	122
LCS 880-17529/2-A	Lab Control Sample	105	109
LCS 880-17628/2-A	Lab Control Sample	126	145 S1+
LCSD 880-17528/3-A	Lab Control Sample Dup	102	114
LCSD 880-17529/3-A	Lab Control Sample Dup	110	112
LCSD 880-17628/3-A	Lab Control Sample Dup	118	140 S1+
MB 880-17528/1-A	Method Blank	103	128
MB 880-17529/1-A	Method Blank	93	110
MB 880-17628/1-A	Method Blank	103	124
Surrogate Legend			
1CO = 1-Chlorooctane (Surr)			
OTPH = o-Terphenyl (Surr)			

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-17167/5-A

Matrix: Solid

Analysis Batch: 17425

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17167

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/19/22 15:00	01/22/22 03:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/19/22 15:00	01/22/22 03:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/19/22 15:00	01/22/22 03:20	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/19/22 15:00	01/22/22 03:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/19/22 15:00	01/22/22 03:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/19/22 15:00	01/22/22 03:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	67	S1-	70 - 130	01/19/22 15:00	01/22/22 03:20	1
1,4-Difluorobenzene (Surr)	91		70 - 130	01/19/22 15:00	01/22/22 03:20	1

Lab Sample ID: MB 880-17169/5-A

Matrix: Solid

Analysis Batch: 17429

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17169

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/19/22 13:48	01/21/22 12:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/19/22 13:48	01/21/22 12:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/19/22 13:48	01/21/22 12:04	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/19/22 13:48	01/21/22 12:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/19/22 13:48	01/21/22 12:04	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/19/22 13:48	01/21/22 12:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	01/19/22 13:48	01/21/22 12:04	1
1,4-Difluorobenzene (Surr)	103		70 - 130	01/19/22 13:48	01/21/22 12:04	1

Lab Sample ID: MB 880-17341/5-A

Matrix: Solid

Analysis Batch: 17427

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17341

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/21/22 09:38	01/21/22 11:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/21/22 09:38	01/21/22 11:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/21/22 09:38	01/21/22 11:47	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/21/22 09:38	01/21/22 11:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/21/22 09:38	01/21/22 11:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/21/22 09:38	01/21/22 11:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	01/21/22 09:38	01/21/22 11:47	1
1,4-Difluorobenzene (Surr)	103		70 - 130	01/21/22 09:38	01/21/22 11:47	1

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-17388/5-A

Matrix: Solid

Analysis Batch: 17427

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17388

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/21/22 07:30	01/21/22 23:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/21/22 07:30	01/21/22 23:24	1
Ethylbenzene	0.003137		0.00200		mg/Kg		01/21/22 07:30	01/21/22 23:24	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/21/22 07:30	01/21/22 23:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/21/22 07:30	01/21/22 23:24	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/21/22 07:30	01/21/22 23:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	01/21/22 07:30	01/21/22 23:24	1
1,4-Difluorobenzene (Surr)	101		70 - 130	01/21/22 07:30	01/21/22 23:24	1

Lab Sample ID: LCS 880-17388/1-A

Matrix: Solid

Analysis Batch: 17427

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17388

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09187		mg/Kg		92	70 - 130
Toluene	0.100	0.1014		mg/Kg		101	70 - 130
Ethylbenzene	0.100	0.1005		mg/Kg		101	70 - 130
m,p-Xylenes	0.200	0.1969		mg/Kg		98	70 - 130
o-Xylene	0.100	0.09342		mg/Kg		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-17388/2-A

Matrix: Solid

Analysis Batch: 17427

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 17388

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.09869		mg/Kg		99	70 - 130	7	35
Toluene	0.100	0.1022		mg/Kg		102	70 - 130	1	35
Ethylbenzene	0.100	0.1019		mg/Kg		102	70 - 130	1	35
m,p-Xylenes	0.200	0.2002		mg/Kg		100	70 - 130	2	35
o-Xylene	0.100	0.1002		mg/Kg		100	70 - 130	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: 890-1840-A-5-J MS

Matrix: Solid

Analysis Batch: 17427

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 17388

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F2 F1	0.0996	0.09366		mg/Kg		93	70 - 130
Toluene	<0.00199	U F2 F1	0.0996	0.09215		mg/Kg		91	70 - 130

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-1840-A-5-J MS

Matrix: Solid

Analysis Batch: 17427

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 17388

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00199	U F2 F1	0.0996	0.1025		mg/Kg		103	70 - 130
m,p-Xylenes	<0.00398	U F2 F1	0.199	0.1941		mg/Kg		97	70 - 130
o-Xylene	<0.00199	U F1	0.0996	0.09497		mg/Kg		95	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-1840-A-5-K MSD

Matrix: Solid

Analysis Batch: 17427

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 17388

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F2 F1	0.100	0.04365	F2 F1	mg/Kg		43	70 - 130	73	35
Toluene	<0.00199	U F2 F1	0.100	0.06067	F2 F1	mg/Kg		59	70 - 130	41	35
Ethylbenzene	<0.00199	U F2 F1	0.100	0.06531	F2 F1	mg/Kg		65	70 - 130	44	35
m,p-Xylenes	<0.00398	U F2 F1	0.200	0.1177	F2 F1	mg/Kg		59	70 - 130	49	35
o-Xylene	<0.00199	U F1	0.100	0.06987	F1	mg/Kg		69	70 - 130	30	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130
1,4-Difluorobenzene (Surr)	119		70 - 130

Lab Sample ID: MB 880-17424/5-A

Matrix: Solid

Analysis Batch: 17425

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17424

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/22/22 17:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/22/22 17:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/22/22 17:52	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/21/22 16:00	01/22/22 17:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/22/22 17:52	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/21/22 16:00	01/22/22 17:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	66	S1-	70 - 130	01/21/22 16:00	01/22/22 17:52	1
1,4-Difluorobenzene (Surr)	93		70 - 130	01/21/22 16:00	01/22/22 17:52	1

Lab Sample ID: LCS 880-17424/1-A

Matrix: Solid

Analysis Batch: 17425

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17424

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1068		mg/Kg		107	70 - 130
Toluene	0.100	0.08655		mg/Kg		87	70 - 130
Ethylbenzene	0.100	0.08355		mg/Kg		84	70 - 130
m,p-Xylenes	0.200	0.1821		mg/Kg		91	70 - 130

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-17424/1-A

Matrix: Solid

Analysis Batch: 17425

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17424

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	0.100	0.09859		mg/Kg		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: LCSD 880-17424/2-A

Matrix: Solid

Analysis Batch: 17425

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 17424

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.1018		mg/Kg		102	70 - 130	5	35
Toluene	0.100	0.08408		mg/Kg		84	70 - 130	3	35
Ethylbenzene	0.100	0.07971		mg/Kg		80	70 - 130	5	35
m,p-Xylenes	0.200	0.1744		mg/Kg		87	70 - 130	4	35
o-Xylene	0.100	0.09533		mg/Kg		95	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 820-3188-1 MS

Matrix: Soil

Analysis Batch: 17425

Client Sample ID: HA-1 (0-0.5')

Prep Type: Total/NA

Prep Batch: 17424

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F1	0.0990	<0.00198	U F1	mg/Kg		0	70 - 130
Toluene	<0.00199	U F1 F2	0.0990	<0.00198	U F1	mg/Kg		0.7	70 - 130
Ethylbenzene	<0.00199	U F1	0.0990	<0.00198	U F1	mg/Kg		0	70 - 130
m,p-Xylenes	<0.00398	U F1 F2	0.198	<0.00396	U F1	mg/Kg		0.7	70 - 130
o-Xylene	<0.00199	U F1 F2	0.0990	<0.00198	U F1	mg/Kg		2	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: 820-3188-1 MSD

Matrix: Soil

Analysis Batch: 17425

Client Sample ID: HA-1 (0-0.5')

Prep Type: Total/NA

Prep Batch: 17424

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00199	U F1	0.100	0.01876	F1	mg/Kg		19	70 - 130	NC	35
Toluene	<0.00199	U F1 F2	0.100	0.01214	F1 F2	mg/Kg		12	70 - 130	179	35
Ethylbenzene	<0.00199	U F1	0.100	0.01670	F1	mg/Kg		17	70 - 130	NC	35
m,p-Xylenes	<0.00398	U F1 F2	0.200	0.03322	F1 F2	mg/Kg		17	70 - 130	184	35
o-Xylene	<0.00199	U F1 F2	0.100	0.02251	F1 F2	mg/Kg		23	70 - 130	169	35

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 820-3188-1 MSD

Matrix: Soil

Analysis Batch: 17425

Client Sample ID: HA-1 (0-0.5')

Prep Type: Total/NA

Prep Batch: 17424

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: MB 880-17426/5-A

Matrix: Solid

Analysis Batch: 17429

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17426

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/21/22 23:29	1	
Toluene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/21/22 23:29	1	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/21/22 23:29	1	
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		01/21/22 16:00	01/21/22 23:29	1	
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/21/22 16:00	01/21/22 23:29	1	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/21/22 16:00	01/21/22 23:29	1	
	MB	MB								
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil	Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				01/21/22 16:00	01/21/22 23:29	1	
1,4-Difluorobenzene (Surr)	106		70 - 130				01/21/22 16:00	01/21/22 23:29	1	

Lab Sample ID: LCS 880-17426/1-A

Matrix: Solid

Analysis Batch: 17429

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17426

	Spike	LCS	LCS						%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Benzene	0.100	0.09060		mg/Kg		91	70 - 130			
Toluene	0.100	0.08073		mg/Kg		81	70 - 130			
Ethylbenzene	0.100	0.07731		mg/Kg		77	70 - 130			
m,p-Xylenes	0.200	0.1543		mg/Kg		77	70 - 130			
o-Xylene	0.100	0.07819		mg/Kg		78	70 - 130			
	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	100		70 - 130							
1,4-Difluorobenzene (Surr)	101		70 - 130							

Lab Sample ID: LCSD 880-17426/2-A

Matrix: Solid

Analysis Batch: 17429

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 17426

			Spike	LCSD	LCSD						%Rec.	RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene			0.100	0.08899		mg/Kg		89	70 - 130	2	35	
Toluene			0.100	0.08118		mg/Kg		81	70 - 130	1	35	
Ethylbenzene			0.100	0.07771		mg/Kg		78	70 - 130	1	35	
m,p-Xylenes			0.200	0.1613		mg/Kg		81	70 - 130	4	35	
o-Xylene			0.100	0.07892		mg/Kg		79	70 - 130	1	35	
			LCSD	LCSD								
Surrogate	%Recovery	Qualifier	Limits									
4-Bromofluorobenzene (Surr)	104		70 - 130									

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-17426/2-A

Matrix: Solid

Analysis Batch: 17429

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 17426

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 820-3188-21 MSD

Matrix: Soil

Analysis Batch: 17429

Client Sample ID: HA- 7 (0-5')

Prep Type: Total/NA

Prep Batch: 17426

	Sample	Sample	Spike	MSD	MSD				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD
Benzene	<0.00199	U	0.101	0.06041		mg/Kg				
Toluene	<0.00199	U	0.101	0.05726		mg/Kg				
Ethylbenzene	<0.00199	U	0.101	0.05610		mg/Kg				
m,p-Xylenes	<0.00398	U	0.201	0.1137		mg/Kg				
o-Xylene	<0.00199	U	0.101	0.05557		mg/Kg				

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 820-3188-21 MS

Matrix: Soil

Analysis Batch: 17429

Client Sample ID: HA- 7 (0-5')

Prep Type: Total/NA

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-17528/1-A

Matrix: Solid

Analysis Batch: 17660

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17528

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/24/22 09:02	01/25/22 11:23	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/24/22 09:02	01/25/22 11:23	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/24/22 09:02	01/25/22 11:23	1	

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil	Fac			
1-Chlorooctane (Surr)	103		70 - 130	01/24/22 09:02	01/25/22 11:23	1				
o-Terphenyl (Surr)	128		70 - 130	01/24/22 09:02	01/25/22 11:23	1				

Lab Sample ID: LCS 880-17528/2-A

Matrix: Solid

Analysis Batch: 17660

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17528

	Spike	LCS	LCS					%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	925.0		mg/Kg		93	70 - 130		

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-17528/2-A

Matrix: Solid

Analysis Batch: 17660

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17528

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics (Over C10-C28)	1000	1052		mg/Kg		105	70 - 130

	LCS %Recovery	LCS Qualifier	Limits
Surrogate			
1-Chlorooctane (Surr)	107		70 - 130
o-Terphenyl (Surr)	122		70 - 130

Lab Sample ID: LCSD 880-17528/3-A

Matrix: Solid

Analysis Batch: 17660

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 17528

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	899.8		mg/Kg		90	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	1007		mg/Kg		101	70 - 130	4	20

	LCSD %Recovery	LCSD Qualifier	Limits
Surrogate			
1-Chlorooctane (Surr)	102		70 - 130
o-Terphenyl (Surr)	114		70 - 130

Lab Sample ID: 820-3188-1 MS

Matrix: Soil

Analysis Batch: 17660

Client Sample ID: HA-1 (0-0.5')

Prep Type: Total/NA

Prep Batch: 17528

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1 F2	997	1420	F1	mg/Kg		138	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1	997	1523	F1	mg/Kg		151	70 - 130

	MS %Recovery	MS Qualifier	Limits
Surrogate			
1-Chlorooctane (Surr)	95		70 - 130
o-Terphenyl (Surr)	97		70 - 130

Lab Sample ID: 820-3188-1 MSD

Matrix: Soil

Analysis Batch: 17660

Client Sample ID: HA-1 (0-0.5')

Prep Type: Total/NA

Prep Batch: 17528

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1 F2	996	1745	F1 F2	mg/Kg		171	70 - 130	21	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	996	1627	F1	mg/Kg		161	70 - 130	7	20

	MSD %Recovery	MSD Qualifier	Limits
Surrogate			
1-Chlorooctane (Surr)	101		70 - 130
o-Terphenyl (Surr)	104		70 - 130

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-17529/1-A

Matrix: Solid

Analysis Batch: 17662

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17529

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/24/22 09:18	01/25/22 11:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/24/22 09:18	01/25/22 11:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/24/22 09:18	01/25/22 11:23	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	93		70 - 130				01/24/22 09:18	01/25/22 11:23	1
o-Terphenyl (Surr)	110		70 - 130				01/24/22 09:18	01/25/22 11:23	1

Lab Sample ID: LCS 880-17529/2-A

Matrix: Solid

Analysis Batch: 17662

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17529

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	936.7		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	1000	945.0		mg/Kg		94	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
1-Chlorooctane (Surr)	105		70 - 130				
o-Terphenyl (Surr)	109		70 - 130				

Lab Sample ID: LCSD 880-17529/3-A

Matrix: Solid

Analysis Batch: 17662

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 17529

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	972.6		mg/Kg		97	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	945.0		mg/Kg		94	70 - 130	0	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
1-Chlorooctane (Surr)	110		70 - 130						
o-Terphenyl (Surr)	112		70 - 130						

Lab Sample ID: 820-3188-21 MS

Matrix: Soil

Analysis Batch: 17662

Client Sample ID: HA- 7 (0-.5')

Prep Type: Total/NA

Prep Batch: 17529

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	997	1450	F1	mg/Kg		145	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1	997	1383	F1	mg/Kg		136	70 - 130

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 820-3188-21 MS

Matrix: Soil

Analysis Batch: 17662

Client Sample ID: HA- 7 (0-.5')

Prep Type: Total/NA

Prep Batch: 17529

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	99		70 - 130
o-Terphenyl (Surr)	97		70 - 130

Lab Sample ID: 820-3188-21 MSD

Matrix: Soil

Analysis Batch: 17662

Client Sample ID: HA- 7 (0-.5')

Prep Type: Total/NA

Prep Batch: 17529

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	996	1403	F1	mg/Kg		141	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	996	1309		mg/Kg		128	70 - 130	6	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	95		70 - 130
o-Terphenyl (Surr)	92		70 - 130

Lab Sample ID: MB 880-17628/1-A

Matrix: Solid

Analysis Batch: 17546

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17628

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/24/22 14:40	01/24/22 22:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/24/22 14:40	01/24/22 22:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/24/22 14:40	01/24/22 22:57	1

	MB	MB					Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane (Surr)	103		70 - 130				01/24/22 14:40	01/24/22 22:57	1
o-Terphenyl (Surr)	124		70 - 130				01/24/22 14:40	01/24/22 22:57	1

Lab Sample ID: LCS 880-17628/2-A

Matrix: Solid

Analysis Batch: 17546

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17628

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	817.6		mg/Kg		82	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1219		mg/Kg		122	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	126		70 - 130
o-Terphenyl (Surr)	145	S1+	70 - 130

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-17628/3-A

Matrix: Solid

Analysis Batch: 17546

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 17628

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	780.0		mg/Kg		78	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	1161		mg/Kg		116	70 - 130	5	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane (Surr)	118		70 - 130						
o-Terphenyl (Surr)	140	S1+	70 - 130						

Lab Sample ID: 820-3188-41 MS

Matrix: Soil

Analysis Batch: 17546

Client Sample ID: HA- 13 (1.5'-2')

Prep Type: Total/NA

Prep Batch: 17628

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1005		mg/Kg		98	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1286		mg/Kg		126	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane (Surr)	95		70 - 130								
o-Terphenyl (Surr)	105		70 - 130								

Lab Sample ID: 820-3188-41 MSD

Matrix: Soil

Analysis Batch: 17546

Client Sample ID: HA- 13 (1.5'-2')

Prep Type: Total/NA

Prep Batch: 17628

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	1018		mg/Kg		99	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	996	1298		mg/Kg		127	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	97		70 - 130								
o-Terphenyl (Surr)	103		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-17556/1-A

Matrix: Solid

Analysis Batch: 17727

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/25/22 19:25	1

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-17556/2-A

Matrix: Solid

Analysis Batch: 17727

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	259.2		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-17556/3-A

Matrix: Solid

Analysis Batch: 17727

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	254.5		mg/Kg		102	90 - 110	2	20

Lab Sample ID: 820-3188-1 MS

Matrix: Soil

Analysis Batch: 17727

Client Sample ID: HA-1 (0-0.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	28.7		253	278.0		mg/Kg		99	90 - 110

Lab Sample ID: 820-3188-1 MSD

Matrix: Soil

Analysis Batch: 17727

Client Sample ID: HA-1 (0-0.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	28.7		253	285.0		mg/Kg		101	90 - 110	2	20

Lab Sample ID: 820-3188-11 MS

Matrix: Soil

Analysis Batch: 17727

Client Sample ID: HA- 4 (.5'-1')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	6900	F1	2500	9404		mg/Kg		100	90 - 110

Lab Sample ID: 820-3188-11 MSD

Matrix: Soil

Analysis Batch: 17727

Client Sample ID: HA- 4 (.5'-1')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	6900	F1	2500	9984	F1	mg/Kg		123	90 - 110	6	20

Lab Sample ID: MB 880-17557/1-A

Matrix: Solid

Analysis Batch: 17734

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/26/22 01:47	1

Lab Sample ID: LCS 880-17557/2-A

Matrix: Solid

Analysis Batch: 17734

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	255.9		mg/Kg		102	90 - 110

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-17557/3-A

Matrix: Solid

Analysis Batch: 17734

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	259.5		mg/Kg		104	90 - 110	1	20

Lab Sample ID: 820-3188-21 MS

Matrix: Soil

Analysis Batch: 17734

Client Sample ID: HA- 7 (0-.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	8120	F1	2500	13340	F1	mg/Kg		209	90 - 110		

Lab Sample ID: 820-3188-21 MSD

Matrix: Soil

Analysis Batch: 17734

Client Sample ID: HA- 7 (0-.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	8120	F1	2500	12700	F1	mg/Kg		183	90 - 110	5	20

Lab Sample ID: 820-3188-31 MS

Matrix: Soil

Analysis Batch: 17734

Client Sample ID: HA- 10 (.5'-1')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	5100	F1	2490	8940	F1	mg/Kg		154	90 - 110		

Lab Sample ID: 820-3188-31 MSD

Matrix: Soil

Analysis Batch: 17734

Client Sample ID: HA- 10 (.5'-1')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	5100	F1	2490	8996	F1	mg/Kg		156	90 - 110	1	20

Lab Sample ID: MB 880-17558/1-A

Matrix: Solid

Analysis Batch: 17735

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/28/22 02:39	1

Lab Sample ID: LCS 880-17558/2-A

Matrix: Solid

Analysis Batch: 17735

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	265.3		mg/Kg		106	90 - 110		

Lab Sample ID: LCSD 880-17558/3-A

Matrix: Solid

Analysis Batch: 17735

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	266.1		mg/Kg		106	90 - 110	0	20

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 820-3188-41 MS

Matrix: Soil

Analysis Batch: 17735

Client Sample ID: HA- 13 (1.5'-2')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	3360	F1	1250	4821	F1	mg/Kg		117	90 - 110		

Lab Sample ID: 820-3188-41 MSD

Matrix: Soil

Analysis Batch: 17735

Client Sample ID: HA- 13 (1.5'-2')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	3360	F1	1250	4734		mg/Kg		110	90 - 110	2	20

Lab Sample ID: 820-3188-51 MS

Matrix: Soil

Analysis Batch: 17735

Client Sample ID: HA- 16 (4.5'-5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	15300	F1	4950	19160	F1	mg/Kg		78	90 - 110		

Lab Sample ID: 820-3188-51 MSD

Matrix: Soil

Analysis Batch: 17735

Client Sample ID: HA- 16 (4.5'-5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	15300	F1	4950	19130	F1	mg/Kg		78	90 - 110	0	20

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

GC VOA

Prep Batch: 17167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-17167/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 17169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-17169/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 17341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-17341/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 17388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3188-41	HA- 13 (1.5'-2')	Total/NA	Soil	5035	
820-3188-42	HA- 14 (0-.5')	Total/NA	Soil	5035	
820-3188-43	HA- 14 (.5'-1')	Total/NA	Soil	5035	
820-3188-44	HA- 15 (0-.5')	Total/NA	Soil	5035	
820-3188-45	HA- 15 (.5'-1')	Total/NA	Soil	5035	
820-3188-46	HA- 15 (1.5'-2')	Total/NA	Soil	5035	
820-3188-47	HA- 16 (0-.5')	Total/NA	Soil	5035	
820-3188-48	HA- 16 (.5'-1')	Total/NA	Soil	5035	
820-3188-49	HA- 16 (1.5'-2')	Total/NA	Soil	5035	
820-3188-50	HA- 16 (3.5'-4')	Total/NA	Soil	5035	
820-3188-51	HA- 16 (4.5'-5')	Total/NA	Soil	5035	
MB 880-17388/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-17388/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-17388/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1840-A-5-J MS	Matrix Spike	Total/NA	Solid	5035	
890-1840-A-5-K MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 17424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3188-1	HA-1 (0-0.5')	Total/NA	Soil	5035	
820-3188-2	HA- 1 (.5'-1')	Total/NA	Soil	5035	
820-3188-3	HA- 1 (1.5'-2')	Total/NA	Soil	5035	
820-3188-4	HA-2 (0-.5')	Total/NA	Soil	5035	
820-3188-5	HA- 2 (.5'-1')	Total/NA	Soil	5035	
820-3188-6	HA- 2 (1.5'-2')	Total/NA	Soil	5035	
820-3188-7	HA- 3 (0-.5')	Total/NA	Soil	5035	
820-3188-8	HA- 3 (.5'-1')	Total/NA	Soil	5035	
820-3188-9	HA- 3 ((1.5'-2')	Total/NA	Soil	5035	
820-3188-10	HA- 4 (0-.5')	Total/NA	Soil	5035	
820-3188-11	HA- 4 (.5'-1')	Total/NA	Soil	5035	
820-3188-12	HA-4 (1.5'-2')	Total/NA	Soil	5035	
820-3188-13	HA- 5 (0-.5')	Total/NA	Soil	5035	
820-3188-14	HA- 5 (.5'-1')	Total/NA	Soil	5035	
820-3188-15	HA-5 (1.5'-2')	Total/NA	Soil	5035	
820-3188-16	HA- 5 (3.5'-4')	Total/NA	Soil	5035	
820-3188-17	HA- 5 (4.5'-5')	Total/NA	Soil	5035	
820-3188-18	HA- 6 (0-.5')	Total/NA	Soil	5035	
820-3188-19	HA- 6 (.5'-1')	Total/NA	Soil	5035	
820-3188-20	HA- 6 (1.5'-2')	Total/NA	Soil	5035	

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

GC VOA (Continued)

Prep Batch: 17424 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-17424/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-17424/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-17424/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
820-3188-1 MS	HA-1 (0-0.5')	Total/NA	Soil	5035	
820-3188-1 MSD	HA-1 (0-0.5')	Total/NA	Soil	5035	

Analysis Batch: 17425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3188-1	HA-1 (0-0.5')	Total/NA	Soil	8021B	17424
820-3188-2	HA- 1 (.5'-1')	Total/NA	Soil	8021B	17424
820-3188-3	HA- 1 (1.5'-2')	Total/NA	Soil	8021B	17424
820-3188-4	HA-2 (0-.5')	Total/NA	Soil	8021B	17424
820-3188-5	HA- 2 (.5'-1')	Total/NA	Soil	8021B	17424
820-3188-6	HA- 2 (1.5'-2')	Total/NA	Soil	8021B	17424
820-3188-7	HA- 3 (0-.5')	Total/NA	Soil	8021B	17424
820-3188-8	HA- 3 (.5'-1')	Total/NA	Soil	8021B	17424
820-3188-9	HA- 3 ((1.5'-2')	Total/NA	Soil	8021B	17424
820-3188-10	HA- 4 (0-.5')	Total/NA	Soil	8021B	17424
820-3188-11	HA- 4 (.5'-1')	Total/NA	Soil	8021B	17424
820-3188-12	HA-4 (1.5'-2')	Total/NA	Soil	8021B	17424
820-3188-13	HA- 5 (0-.5')	Total/NA	Soil	8021B	17424
820-3188-14	HA- 5 (.5'-1')	Total/NA	Soil	8021B	17424
820-3188-15	HA-5 (1.5'-2')	Total/NA	Soil	8021B	17424
820-3188-16	HA- 5 (3.5'-4')	Total/NA	Soil	8021B	17424
820-3188-17	HA- 5 (4.5'-5')	Total/NA	Soil	8021B	17424
820-3188-18	HA- 6 (0-.5')	Total/NA	Soil	8021B	17424
820-3188-19	HA- 6 (.5'-1')	Total/NA	Soil	8021B	17424
820-3188-20	HA- 6 (1.5'-2')	Total/NA	Soil	8021B	17424
MB 880-17167/5-A	Method Blank	Total/NA	Solid	8021B	17167
MB 880-17424/5-A	Method Blank	Total/NA	Solid	8021B	17424
LCS 880-17424/1-A	Lab Control Sample	Total/NA	Solid	8021B	17424
LCSD 880-17424/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	17424
820-3188-1 MS	HA-1 (0-0.5')	Total/NA	Soil	8021B	17424
820-3188-1 MSD	HA-1 (0-0.5')	Total/NA	Soil	8021B	17424

Prep Batch: 17426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3188-21	HA- 7 (0-.5')	Total/NA	Soil	5035	
820-3188-22	HA- 7 (.5'-1')	Total/NA	Soil	5035	
820-3188-23	HA- 7 (1.5'-2')	Total/NA	Soil	5035	
820-3188-24	HA- 8 (0-.5')	Total/NA	Soil	5035	
820-3188-25	HA- 8 (.5'-1')	Total/NA	Soil	5035	
820-3188-26	HA- 8 (1.5'-2')	Total/NA	Soil	5035	
820-3188-27	HA- 9 (0-.5')	Total/NA	Soil	5035	
820-3188-28	HA- 9 (.5'-1')	Total/NA	Soil	5035	
820-3188-29	HA- 9 (1.5'-2')	Total/NA	Soil	5035	
820-3188-30	HA- 10 (0-.5')	Total/NA	Soil	5035	
820-3188-31	HA- 10 (.5'-1')	Total/NA	Soil	5035	
820-3188-32	HA- 10 (1.5'-2')	Total/NA	Soil	5035	
820-3188-33	HA- 11 (0-.5')	Total/NA	Soil	5035	
820-3188-34	HA- 11 (.5'-1')	Total/NA	Soil	5035	

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

GC VOA (Continued)

Prep Batch: 17426 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3188-35	HA- 11 (1.5'-2')	Total/NA	Soil	5035	
820-3188-36	HA- 12 (0-.5')	Total/NA	Soil	5035	
820-3188-37	HA- 12 (.5'-1')	Total/NA	Soil	5035	
820-3188-38	HA- 12 (1.5'-2')	Total/NA	Soil	5035	
820-3188-39	HA- 13 (0-.5')	Total/NA	Soil	5035	
820-3188-40	HA- 13 (.5'-1')	Total/NA	Soil	5035	
MB 880-17426/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-17426/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-17426/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
820-3188-21 MSD	HA- 7 (0-.5')	Total/NA	Soil	5035	

Analysis Batch: 17427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3188-41	HA- 13 (1.5'-2')	Total/NA	Soil	8021B	17388
820-3188-42	HA- 14 (0-.5')	Total/NA	Soil	8021B	17388
820-3188-43	HA- 14 (.5'-1')	Total/NA	Soil	8021B	17388
820-3188-44	HA- 15 (0-.5')	Total/NA	Soil	8021B	17388
820-3188-45	HA- 15 (.5'-1')	Total/NA	Soil	8021B	17388
820-3188-46	HA- 15 (1.5'-2')	Total/NA	Soil	8021B	17388
820-3188-47	HA- 16 (0-.5')	Total/NA	Soil	8021B	17388
820-3188-48	HA- 16 (.5'-1')	Total/NA	Soil	8021B	17388
820-3188-49	HA- 16 (1.5'-2')	Total/NA	Soil	8021B	17388
820-3188-50	HA- 16 (3.5'-4')	Total/NA	Soil	8021B	17388
820-3188-51	HA- 16 (4.5'-5')	Total/NA	Soil	8021B	17388
MB 880-17341/5-A	Method Blank	Total/NA	Solid	8021B	17341
MB 880-17388/5-A	Method Blank	Total/NA	Solid	8021B	17388
LCS 880-17388/1-A	Lab Control Sample	Total/NA	Solid	8021B	17388
LCSD 880-17388/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	17388
890-1840-A-5-J MS	Matrix Spike	Total/NA	Solid	8021B	17388
890-1840-A-5-K MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	17388

Analysis Batch: 17429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3188-21	HA- 7 (0-.5')	Total/NA	Soil	8021B	17426
820-3188-22	HA- 7 (.5'-1')	Total/NA	Soil	8021B	17426
820-3188-23	HA- 7 (1.5'-2')	Total/NA	Soil	8021B	17426
820-3188-24	HA- 8 (0-.5')	Total/NA	Soil	8021B	17426
820-3188-25	HA- 8 (.5'-1')	Total/NA	Soil	8021B	17426
820-3188-26	HA- 8 (1.5'-2')	Total/NA	Soil	8021B	17426
820-3188-27	HA- 9 (0-.5')	Total/NA	Soil	8021B	17426
820-3188-28	HA- 9 (.5'-1')	Total/NA	Soil	8021B	17426
820-3188-29	HA- 9 (1.5'-2')	Total/NA	Soil	8021B	17426
820-3188-30	HA- 10 (0-.5')	Total/NA	Soil	8021B	17426
820-3188-31	HA- 10 (.5'-1')	Total/NA	Soil	8021B	17426
820-3188-32	HA- 10 (1.5'-2')	Total/NA	Soil	8021B	17426
820-3188-33	HA- 11 (0-.5')	Total/NA	Soil	8021B	17426
820-3188-34	HA- 11 (.5'-1')	Total/NA	Soil	8021B	17426
820-3188-35	HA- 11 (1.5'-2')	Total/NA	Soil	8021B	17426
820-3188-36	HA- 12 (0-.5')	Total/NA	Soil	8021B	17426
820-3188-37	HA- 12 (.5'-1')	Total/NA	Soil	8021B	17426
820-3188-38	HA- 12 (1.5'-2')	Total/NA	Soil	8021B	17426

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

GC VOA (Continued)

Analysis Batch: 17429 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3188-39	HA- 13 (0-.5')	Total/NA	Soil	8021B	17426
820-3188-40	HA- 13 (.5'-1')	Total/NA	Soil	8021B	17426
MB 880-17169/5-A	Method Blank	Total/NA	Solid	8021B	17169
MB 880-17426/5-A	Method Blank	Total/NA	Solid	8021B	17426
LCS 880-17426/1-A	Lab Control Sample	Total/NA	Solid	8021B	17426
LCSD 880-17426/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	17426
820-3188-21 MS	HA- 7 (0-.5')	Total/NA	Soil	8021B	
820-3188-21 MSD	HA- 7 (0-.5')	Total/NA	Soil	8021B	17426

Analysis Batch: 17693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3188-1	HA-1 (0-0.5')	Total/NA	Soil	Total BTEX	
820-3188-2	HA- 1 (.5'-1')	Total/NA	Soil	Total BTEX	
820-3188-3	HA- 1 (1.5'-2')	Total/NA	Soil	Total BTEX	
820-3188-4	HA-2 (0-.5')	Total/NA	Soil	Total BTEX	
820-3188-5	HA- 2 (.5'-1')	Total/NA	Soil	Total BTEX	
820-3188-6	HA- 2 (1.5'-2')	Total/NA	Soil	Total BTEX	
820-3188-7	HA- 3 (0-.5')	Total/NA	Soil	Total BTEX	
820-3188-8	HA- 3 (.5'-1')	Total/NA	Soil	Total BTEX	
820-3188-9	HA- 3 ((1.5'-2')	Total/NA	Soil	Total BTEX	
820-3188-10	HA- 4 (0-.5')	Total/NA	Soil	Total BTEX	
820-3188-11	HA- 4 (.5'-1')	Total/NA	Soil	Total BTEX	
820-3188-12	HA-4 (1.5'-2')	Total/NA	Soil	Total BTEX	
820-3188-13	HA- 5 (0-.5')	Total/NA	Soil	Total BTEX	
820-3188-14	HA- 5 (.5'-1')	Total/NA	Soil	Total BTEX	
820-3188-15	HA-5 (1.5'-2')	Total/NA	Soil	Total BTEX	
820-3188-16	HA- 5 (3.5'-4')	Total/NA	Soil	Total BTEX	
820-3188-17	HA- 5 (4.5'-5')	Total/NA	Soil	Total BTEX	
820-3188-18	HA- 6 (0-.5')	Total/NA	Soil	Total BTEX	
820-3188-19	HA- 6 (.5'-1')	Total/NA	Soil	Total BTEX	
820-3188-20	HA- 6 (1.5'-2')	Total/NA	Soil	Total BTEX	
820-3188-21	HA- 7 (0-.5')	Total/NA	Soil	Total BTEX	
820-3188-22	HA- 7 (.5'-1')	Total/NA	Soil	Total BTEX	
820-3188-23	HA- 7 (1.5'-2)	Total/NA	Soil	Total BTEX	
820-3188-24	HA- 8 (0-.5')	Total/NA	Soil	Total BTEX	
820-3188-25	HA- 8 (.5'-1')	Total/NA	Soil	Total BTEX	
820-3188-26	HA- 8 (1.5'-2')	Total/NA	Soil	Total BTEX	
820-3188-27	HA- 9 (0-.5')	Total/NA	Soil	Total BTEX	
820-3188-28	HA- 9 (.5'-1')	Total/NA	Soil	Total BTEX	
820-3188-29	HA- 9 (1.5'-2')	Total/NA	Soil	Total BTEX	
820-3188-30	HA- 10 (0-.5')	Total/NA	Soil	Total BTEX	
820-3188-31	HA- 10 (.5'-1')	Total/NA	Soil	Total BTEX	
820-3188-32	HA- 10 (1.5'-2')	Total/NA	Soil	Total BTEX	
820-3188-33	HA- 11 (0-.5')	Total/NA	Soil	Total BTEX	
820-3188-34	HA- 11 (.5'-1')	Total/NA	Soil	Total BTEX	
820-3188-35	HA- 11 (1.5'-2')	Total/NA	Soil	Total BTEX	
820-3188-36	HA- 12 (0-.5')	Total/NA	Soil	Total BTEX	
820-3188-37	HA- 12 (.5'-1')	Total/NA	Soil	Total BTEX	
820-3188-38	HA- 12 (1.5'-2')	Total/NA	Soil	Total BTEX	
820-3188-39	HA- 13 (0-.5')	Total/NA	Soil	Total BTEX	
820-3188-40	HA- 13 (.5'-1')	Total/NA	Soil	Total BTEX	

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

GC VOA (Continued)

Analysis Batch: 17693 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3188-41	HA- 13 (1.5'-2')	Total/NA	Soil	Total BTEX	
820-3188-42	HA- 14 (0-.5')	Total/NA	Soil	Total BTEX	
820-3188-43	HA- 14 (.5'-1')	Total/NA	Soil	Total BTEX	
820-3188-44	HA- 15 (0-.5')	Total/NA	Soil	Total BTEX	
820-3188-45	HA- 15 (.5'-1')	Total/NA	Soil	Total BTEX	
820-3188-46	HA- 15 (1.5'-2')	Total/NA	Soil	Total BTEX	
820-3188-47	HA- 16 (0-.5')	Total/NA	Soil	Total BTEX	
820-3188-48	HA- 16 (.5'-1')	Total/NA	Soil	Total BTEX	
820-3188-49	HA- 16 (1.5'-2')	Total/NA	Soil	Total BTEX	
820-3188-50	HA- 16 (3.5'-4')	Total/NA	Soil	Total BTEX	
820-3188-51	HA- 16 (4.5'-5')	Total/NA	Soil	Total BTEX	

GC Semi VOA

Prep Batch: 17528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3188-1	HA-1 (0-0.5')	Total/NA	Soil	8015NM Prep	
820-3188-2	HA- 1 (.5'-1')	Total/NA	Soil	8015NM Prep	
820-3188-3	HA- 1 (1.5'-2')	Total/NA	Soil	8015NM Prep	
820-3188-4	HA-2 (0-.5')	Total/NA	Soil	8015NM Prep	
820-3188-5	HA- 2 (.5'-1')	Total/NA	Soil	8015NM Prep	
820-3188-6	HA- 2 (1.5'-2')	Total/NA	Soil	8015NM Prep	
820-3188-7	HA- 3 (0-.5')	Total/NA	Soil	8015NM Prep	
820-3188-8	HA- 3 (.5'-1')	Total/NA	Soil	8015NM Prep	
820-3188-9	HA- 3 ((1.5'-2')	Total/NA	Soil	8015NM Prep	
820-3188-10	HA- 4 (0-.5')	Total/NA	Soil	8015NM Prep	
820-3188-11	HA- 4 (.5'-1')	Total/NA	Soil	8015NM Prep	
820-3188-12	HA-4 (1.5'-2')	Total/NA	Soil	8015NM Prep	
820-3188-13	HA- 5 (0-.5')	Total/NA	Soil	8015NM Prep	
820-3188-14	HA- 5 (.5'-1')	Total/NA	Soil	8015NM Prep	
820-3188-15	HA-5 (1.5'-2')	Total/NA	Soil	8015NM Prep	
820-3188-16	HA- 5 (3.5'-4')	Total/NA	Soil	8015NM Prep	
820-3188-17	HA- 5 (4.5'-5')	Total/NA	Soil	8015NM Prep	
820-3188-18	HA- 6 (0-.5')	Total/NA	Soil	8015NM Prep	
820-3188-19	HA- 6 (.5'-1')	Total/NA	Soil	8015NM Prep	
820-3188-20	HA- 6 (1.5'-2')	Total/NA	Soil	8015NM Prep	
MB 880-17528/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-17528/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-17528/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
820-3188-1 MS	HA-1 (0-0.5')	Total/NA	Soil	8015NM Prep	
820-3188-1 MSD	HA-1 (0-0.5')	Total/NA	Soil	8015NM Prep	

Prep Batch: 17529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3188-21	HA- 7 (0-.5')	Total/NA	Soil	8015NM Prep	
820-3188-22	HA- 7 (.5'-1')	Total/NA	Soil	8015NM Prep	
820-3188-23	HA- 7 (1.5'-2')	Total/NA	Soil	8015NM Prep	
820-3188-24	HA- 8 (0-.5')	Total/NA	Soil	8015NM Prep	
820-3188-25	HA- 8 (.5'-1')	Total/NA	Soil	8015NM Prep	
820-3188-26	HA- 8 (1.5'-2')	Total/NA	Soil	8015NM Prep	
820-3188-27	HA- 9 (0-.5')	Total/NA	Soil	8015NM Prep	

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

GC Semi VOA (Continued)

Prep Batch: 17529 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3188-28	HA- 9 (.5'-1')	Total/NA	Soil	8015NM Prep	
820-3188-29	HA- 9 (1.5'-2')	Total/NA	Soil	8015NM Prep	
820-3188-30	HA- 10 (0-.5')	Total/NA	Soil	8015NM Prep	
820-3188-31	HA- 10 (.5'-1')	Total/NA	Soil	8015NM Prep	
820-3188-32	HA- 10 (1.5'-2')	Total/NA	Soil	8015NM Prep	
820-3188-33	HA- 11 (0-.5')	Total/NA	Soil	8015NM Prep	
820-3188-34	HA- 11 (.5'-1')	Total/NA	Soil	8015NM Prep	
820-3188-35	HA- 11 (1.5'-2')	Total/NA	Soil	8015NM Prep	
820-3188-36	HA- 12 (0-.5')	Total/NA	Soil	8015NM Prep	
820-3188-37	HA- 12 (.5'-1')	Total/NA	Soil	8015NM Prep	
820-3188-38	HA- 12 (1.5'-2')	Total/NA	Soil	8015NM Prep	
820-3188-39	HA- 13 (0-.5')	Total/NA	Soil	8015NM Prep	
820-3188-40	HA- 13 (.5'-1')	Total/NA	Soil	8015NM Prep	
MB 880-17529/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-17529/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-17529/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
820-3188-21 MS	HA- 7 (0-.5')	Total/NA	Soil	8015NM Prep	
820-3188-21 MSD	HA- 7 (0-.5')	Total/NA	Soil	8015NM Prep	

Analysis Batch: 17546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3188-41	HA- 13 (1.5'-2')	Total/NA	Soil	8015B NM	17628
820-3188-42	HA- 14 (0-.5')	Total/NA	Soil	8015B NM	17628
820-3188-43	HA- 14 (.5'-1')	Total/NA	Soil	8015B NM	17628
820-3188-44	HA- 15 (0-.5')	Total/NA	Soil	8015B NM	17628
820-3188-45	HA- 15 (.5'-1')	Total/NA	Soil	8015B NM	17628
820-3188-46	HA- 15 (1.5'-2')	Total/NA	Soil	8015B NM	17628
820-3188-47	HA- 16 (0-.5')	Total/NA	Soil	8015B NM	17628
820-3188-48	HA- 16 (.5'-1')	Total/NA	Soil	8015B NM	17628
820-3188-49	HA- 16 (1.5'-2')	Total/NA	Soil	8015B NM	17628
820-3188-50	HA- 16 (3.5'-4')	Total/NA	Soil	8015B NM	17628
820-3188-51	HA- 16 (4.5'-5')	Total/NA	Soil	8015B NM	17628
MB 880-17628/1-A	Method Blank	Total/NA	Solid	8015B NM	17628
LCS 880-17628/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	17628
LCSD 880-17628/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	17628
820-3188-41 MS	HA- 13 (1.5'-2')	Total/NA	Soil	8015B NM	17628
820-3188-41 MSD	HA- 13 (1.5'-2')	Total/NA	Soil	8015B NM	17628

Prep Batch: 17628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3188-41	HA- 13 (1.5'-2')	Total/NA	Soil	8015NM Prep	
820-3188-42	HA- 14 (0-.5')	Total/NA	Soil	8015NM Prep	
820-3188-43	HA- 14 (.5'-1')	Total/NA	Soil	8015NM Prep	
820-3188-44	HA- 15 (0-.5')	Total/NA	Soil	8015NM Prep	
820-3188-45	HA- 15 (.5'-1')	Total/NA	Soil	8015NM Prep	
820-3188-46	HA- 15 (1.5'-2')	Total/NA	Soil	8015NM Prep	
820-3188-47	HA- 16 (0-.5')	Total/NA	Soil	8015NM Prep	
820-3188-48	HA- 16 (.5'-1')	Total/NA	Soil	8015NM Prep	
820-3188-49	HA- 16 (1.5'-2')	Total/NA	Soil	8015NM Prep	
820-3188-50	HA- 16 (3.5'-4')	Total/NA	Soil	8015NM Prep	
820-3188-51	HA- 16 (4.5'-5')	Total/NA	Soil	8015NM Prep	

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

GC Semi VOA (Continued)

Prep Batch: 17628 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-17628/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-17628/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-17628/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
820-3188-41 MS	HA- 13 (1.5'-2')	Total/NA	Soil	8015NM Prep	
820-3188-41 MSD	HA- 13 (1.5'-2')	Total/NA	Soil	8015NM Prep	

Analysis Batch: 17641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3188-1	HA-1 (0-0.5')	Total/NA	Soil	8015 NM	
820-3188-2	HA- 1 (.5'-1')	Total/NA	Soil	8015 NM	
820-3188-3	HA- 1 (1.5'-2')	Total/NA	Soil	8015 NM	
820-3188-4	HA-2 (0-.5')	Total/NA	Soil	8015 NM	
820-3188-5	HA- 2 (.5'-1')	Total/NA	Soil	8015 NM	
820-3188-6	HA- 2 (1.5'-2')	Total/NA	Soil	8015 NM	
820-3188-7	HA- 3 (0-.5')	Total/NA	Soil	8015 NM	
820-3188-8	HA- 3 (.5'-1')	Total/NA	Soil	8015 NM	
820-3188-9	HA- 3 ((1.5'-2')	Total/NA	Soil	8015 NM	
820-3188-10	HA- 4 (0-.5')	Total/NA	Soil	8015 NM	
820-3188-11	HA- 4 (.5'-1')	Total/NA	Soil	8015 NM	
820-3188-12	HA-4 (1.5'-2')	Total/NA	Soil	8015 NM	
820-3188-13	HA- 5 (0-.5')	Total/NA	Soil	8015 NM	
820-3188-14	HA- 5 (.5'-1')	Total/NA	Soil	8015 NM	
820-3188-15	HA-5 (1.5'-2')	Total/NA	Soil	8015 NM	
820-3188-16	HA- 5 (3.5'-4')	Total/NA	Soil	8015 NM	
820-3188-17	HA- 5 (4.5'-5')	Total/NA	Soil	8015 NM	
820-3188-18	HA- 6 (0-.5')	Total/NA	Soil	8015 NM	
820-3188-19	HA- 6 (.5'-1')	Total/NA	Soil	8015 NM	
820-3188-20	HA- 6 (1.5'-2')	Total/NA	Soil	8015 NM	
820-3188-21	HA- 7 (0-.5')	Total/NA	Soil	8015 NM	
820-3188-22	HA- 7 (.5'-1')	Total/NA	Soil	8015 NM	
820-3188-23	HA- 7 (1.5'-2)	Total/NA	Soil	8015 NM	
820-3188-24	HA- 8 (0-.5')	Total/NA	Soil	8015 NM	
820-3188-25	HA- 8 (.5'-1')	Total/NA	Soil	8015 NM	
820-3188-26	HA- 8 (1.5'-2')	Total/NA	Soil	8015 NM	
820-3188-27	HA- 9 (0-.5')	Total/NA	Soil	8015 NM	
820-3188-28	HA- 9 (.5'-1')	Total/NA	Soil	8015 NM	
820-3188-29	HA- 9 (1.5'-2')	Total/NA	Soil	8015 NM	
820-3188-30	HA- 10 (0-.5')	Total/NA	Soil	8015 NM	
820-3188-31	HA- 10 (.5'-1')	Total/NA	Soil	8015 NM	
820-3188-32	HA- 10 (1.5'-2')	Total/NA	Soil	8015 NM	
820-3188-33	HA- 11 (0-.5')	Total/NA	Soil	8015 NM	
820-3188-34	HA- 11 (.5'-1')	Total/NA	Soil	8015 NM	
820-3188-35	HA- 11 (1.5'-2')	Total/NA	Soil	8015 NM	
820-3188-36	HA- 12 (0-.5')	Total/NA	Soil	8015 NM	
820-3188-37	HA- 12 (.5'-1')	Total/NA	Soil	8015 NM	
820-3188-38	HA- 12 (1.5'-2')	Total/NA	Soil	8015 NM	
820-3188-39	HA- 13 (0-.5')	Total/NA	Soil	8015 NM	
820-3188-40	HA- 13 (.5'-1')	Total/NA	Soil	8015 NM	
820-3188-41	HA- 13 (1.5'-2')	Total/NA	Soil	8015 NM	
820-3188-42	HA- 14 (0-.5')	Total/NA	Soil	8015 NM	
820-3188-43	HA- 14 (.5'-1')	Total/NA	Soil	8015 NM	

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

GC Semi VOA (Continued)

Analysis Batch: 17641 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3188-44	HA- 15 (0-.5')	Total/NA	Soil	8015 NM	
820-3188-45	HA- 15 (.5'-1')	Total/NA	Soil	8015 NM	
820-3188-46	HA- 15 (1.5'-2')	Total/NA	Soil	8015 NM	
820-3188-47	HA- 16 (0-.5')	Total/NA	Soil	8015 NM	
820-3188-48	HA- 16 (.5'-1')	Total/NA	Soil	8015 NM	
820-3188-49	HA- 16 (1.5'-2')	Total/NA	Soil	8015 NM	
820-3188-50	HA- 16 (3.5'-4')	Total/NA	Soil	8015 NM	
820-3188-51	HA- 16 (4.5'-5')	Total/NA	Soil	8015 NM	

Analysis Batch: 17660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3188-1	HA-1 (0-0.5')	Total/NA	Soil	8015B NM	17528
820-3188-2	HA- 1 (.5'-1')	Total/NA	Soil	8015B NM	17528
820-3188-3	HA- 1 (1.5'-2')	Total/NA	Soil	8015B NM	17528
820-3188-4	HA-2 (0-.5')	Total/NA	Soil	8015B NM	17528
820-3188-5	HA- 2 (.5'-1')	Total/NA	Soil	8015B NM	17528
820-3188-6	HA- 2 (1.5'-2')	Total/NA	Soil	8015B NM	17528
820-3188-7	HA- 3 (0-.5')	Total/NA	Soil	8015B NM	17528
820-3188-8	HA- 3 (.5'-1')	Total/NA	Soil	8015B NM	17528
820-3188-9	HA- 3 ((1.5'-2')	Total/NA	Soil	8015B NM	17528
820-3188-10	HA- 4 (0-.5')	Total/NA	Soil	8015B NM	17528
820-3188-11	HA- 4 (.5'-1')	Total/NA	Soil	8015B NM	17528
820-3188-12	HA-4 (1.5'-2')	Total/NA	Soil	8015B NM	17528
820-3188-13	HA- 5 (0-.5')	Total/NA	Soil	8015B NM	17528
820-3188-14	HA- 5 (.5'-1')	Total/NA	Soil	8015B NM	17528
820-3188-15	HA-5 (1.5'-2')	Total/NA	Soil	8015B NM	17528
820-3188-16	HA- 5 (3.5'-4')	Total/NA	Soil	8015B NM	17528
820-3188-17	HA- 5 (4.5'-5')	Total/NA	Soil	8015B NM	17528
820-3188-18	HA- 6 (0-.5')	Total/NA	Soil	8015B NM	17528
820-3188-19	HA- 6 (.5'-1')	Total/NA	Soil	8015B NM	17528
820-3188-20	HA- 6 (1.5'-2')	Total/NA	Soil	8015B NM	17528
MB 880-17528/1-A	Method Blank	Total/NA	Solid	8015B NM	17528
LCS 880-17528/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	17528
LCSD 880-17528/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	17528
820-3188-1 MS	HA-1 (0-0.5')	Total/NA	Soil	8015B NM	17528
820-3188-1 MSD	HA-1 (0-0.5')	Total/NA	Soil	8015B NM	17528

Analysis Batch: 17662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3188-21	HA- 7 (0-.5')	Total/NA	Soil	8015B NM	17529
820-3188-22	HA- 7 (.5'-1')	Total/NA	Soil	8015B NM	17529
820-3188-23	HA- 7 (1.5'-2')	Total/NA	Soil	8015B NM	17529
820-3188-24	HA- 8 (0-.5')	Total/NA	Soil	8015B NM	17529
820-3188-25	HA- 8 (.5'-1')	Total/NA	Soil	8015B NM	17529
820-3188-26	HA- 8 (1.5'-2')	Total/NA	Soil	8015B NM	17529
820-3188-27	HA- 9 (0-.5')	Total/NA	Soil	8015B NM	17529
820-3188-28	HA- 9 (.5'-1')	Total/NA	Soil	8015B NM	17529
820-3188-29	HA- 9 (1.5'-2')	Total/NA	Soil	8015B NM	17529
820-3188-30	HA- 10 (0-.5')	Total/NA	Soil	8015B NM	17529
820-3188-31	HA- 10 (.5'-1')	Total/NA	Soil	8015B NM	17529
820-3188-32	HA- 10 (1.5'-2')	Total/NA	Soil	8015B NM	17529

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

GC Semi VOA (Continued)

Analysis Batch: 17662 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3188-33	HA- 11 (0-.5')	Total/NA	Soil	8015B NM	17529
820-3188-34	HA- 11 (.5'-1')	Total/NA	Soil	8015B NM	17529
820-3188-35	HA- 11 (1.5'-2')	Total/NA	Soil	8015B NM	17529
820-3188-36	HA- 12 (0-.5')	Total/NA	Soil	8015B NM	17529
820-3188-37	HA- 12 (.5'-1')	Total/NA	Soil	8015B NM	17529
820-3188-38	HA- 12 (1.5'-2')	Total/NA	Soil	8015B NM	17529
820-3188-39	HA- 13 (0-.5')	Total/NA	Soil	8015B NM	17529
820-3188-40	HA- 13 (.5'-1')	Total/NA	Soil	8015B NM	17529
MB 880-17529/1-A	Method Blank	Total/NA	Solid	8015B NM	17529
LCS 880-17529/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	17529
LCSD 880-17529/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	17529
820-3188-21 MS	HA- 7 (0-.5')	Total/NA	Soil	8015B NM	17529
820-3188-21 MSD	HA- 7 (0-.5')	Total/NA	Soil	8015B NM	17529

HPLC/IC

Leach Batch: 17556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3188-1	HA-1 (0-0.5')	Soluble	Soil	DI Leach	
820-3188-2	HA- 1 (.5'-1')	Soluble	Soil	DI Leach	
820-3188-3	HA- 1 (1.5'-2')	Soluble	Soil	DI Leach	
820-3188-4	HA-2 (0-.5')	Soluble	Soil	DI Leach	
820-3188-5	HA- 2 (.5'-1')	Soluble	Soil	DI Leach	
820-3188-6	HA- 2 (1.5'-2')	Soluble	Soil	DI Leach	
820-3188-7	HA- 3 (0-.5')	Soluble	Soil	DI Leach	
820-3188-8	HA- 3 (.5'-1')	Soluble	Soil	DI Leach	
820-3188-9	HA- 3 ((1.5'-2')	Soluble	Soil	DI Leach	
820-3188-10	HA- 4 (0-.5')	Soluble	Soil	DI Leach	
820-3188-11	HA- 4 (.5'-1')	Soluble	Soil	DI Leach	
820-3188-12	HA-4 (1.5'-2')	Soluble	Soil	DI Leach	
820-3188-13	HA- 5 (0-.5')	Soluble	Soil	DI Leach	
820-3188-14	HA- 5 (.5'-1')	Soluble	Soil	DI Leach	
820-3188-15	HA-5 (1.5'-2')	Soluble	Soil	DI Leach	
820-3188-16	HA- 5 (3.5'-4')	Soluble	Soil	DI Leach	
820-3188-17	HA- 5 (4.5'-5')	Soluble	Soil	DI Leach	
820-3188-18	HA- 6 (0-.5')	Soluble	Soil	DI Leach	
820-3188-19	HA- 6 (.5'-1')	Soluble	Soil	DI Leach	
820-3188-20	HA- 6 (1.5'-2')	Soluble	Soil	DI Leach	
MB 880-17556/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-17556/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-17556/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
820-3188-1 MS	HA-1 (0-0.5')	Soluble	Soil	DI Leach	
820-3188-1 MSD	HA-1 (0-0.5')	Soluble	Soil	DI Leach	
820-3188-11 MS	HA- 4 (.5'-1')	Soluble	Soil	DI Leach	
820-3188-11 MSD	HA- 4 (.5'-1')	Soluble	Soil	DI Leach	

Leach Batch: 17557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3188-21	HA- 7 (0-.5')	Soluble	Soil	DI Leach	
820-3188-22	HA- 7 (.5'-1')	Soluble	Soil	DI Leach	
820-3188-23	HA- 7 (1.5'-2')	Soluble	Soil	DI Leach	

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

HPLC/IC (Continued)

Leach Batch: 17557 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3188-24	HA- 8 (0-.5')	Soluble	Soil	DI Leach	
820-3188-25	HA- 8 (.5'-1')	Soluble	Soil	DI Leach	
820-3188-26	HA- 8 (1.5'-2')	Soluble	Soil	DI Leach	
820-3188-27	HA- 9 (0-.5')	Soluble	Soil	DI Leach	
820-3188-28	HA- 9 (.5'-1')	Soluble	Soil	DI Leach	
820-3188-29	HA- 9 (1.5'-2')	Soluble	Soil	DI Leach	
820-3188-30	HA- 10 (0-.5')	Soluble	Soil	DI Leach	
820-3188-31	HA- 10 (.5'-1')	Soluble	Soil	DI Leach	
820-3188-32	HA- 10 (1.5'-2')	Soluble	Soil	DI Leach	
820-3188-33	HA- 11 (0-.5')	Soluble	Soil	DI Leach	
820-3188-34	HA- 11 (.5'-1')	Soluble	Soil	DI Leach	
820-3188-35	HA- 11 (1.5'-2')	Soluble	Soil	DI Leach	
820-3188-36	HA- 12 (0-.5')	Soluble	Soil	DI Leach	
820-3188-37	HA- 12 (.5'-1')	Soluble	Soil	DI Leach	
820-3188-38	HA- 12 (1.5'-2')	Soluble	Soil	DI Leach	
820-3188-39	HA- 13 (0-.5')	Soluble	Soil	DI Leach	
820-3188-40	HA- 13 (.5'-1')	Soluble	Soil	DI Leach	
MB 880-17557/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-17557/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-17557/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
820-3188-21 MS	HA- 7 (0-.5')	Soluble	Soil	DI Leach	
820-3188-21 MSD	HA- 7 (0-.5')	Soluble	Soil	DI Leach	
820-3188-31 MS	HA- 10 (.5'-1')	Soluble	Soil	DI Leach	
820-3188-31 MSD	HA- 10 (.5'-1')	Soluble	Soil	DI Leach	

Leach Batch: 17558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3188-41	HA- 13 (1.5'-2')	Soluble	Soil	DI Leach	
820-3188-42	HA- 14 (0-.5')	Soluble	Soil	DI Leach	
820-3188-43	HA- 14 (.5'-1')	Soluble	Soil	DI Leach	
820-3188-44	HA- 15 (0-.5')	Soluble	Soil	DI Leach	
820-3188-45	HA- 15 (.5'-1')	Soluble	Soil	DI Leach	
820-3188-46	HA- 15 (1.5'-2')	Soluble	Soil	DI Leach	
820-3188-47	HA- 16 (0-.5')	Soluble	Soil	DI Leach	
820-3188-48	HA- 16 (.5'-1')	Soluble	Soil	DI Leach	
820-3188-49	HA- 16 (1.5'-2')	Soluble	Soil	DI Leach	
820-3188-50	HA- 16 (3.5'-4')	Soluble	Soil	DI Leach	
820-3188-51	HA- 16 (4.5'-5')	Soluble	Soil	DI Leach	
MB 880-17558/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-17558/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-17558/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
820-3188-41 MS	HA- 13 (1.5'-2')	Soluble	Soil	DI Leach	
820-3188-41 MSD	HA- 13 (1.5'-2')	Soluble	Soil	DI Leach	
820-3188-51 MS	HA- 16 (4.5'-5')	Soluble	Soil	DI Leach	
820-3188-51 MSD	HA- 16 (4.5'-5')	Soluble	Soil	DI Leach	

Analysis Batch: 17727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3188-1	HA-1 (0-0.5')	Soluble	Soil	300.0	17556
820-3188-2	HA- 1 (.5'-1')	Soluble	Soil	300.0	17556
820-3188-3	HA- 1 (1.5'-2')	Soluble	Soil	300.0	17556

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

HPLC/IC (Continued)

Analysis Batch: 17727 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3188-4	HA-2 (0-.5')	Soluble	Soil	300.0	17556
820-3188-5	HA- 2 (.5'-1')	Soluble	Soil	300.0	17556
820-3188-6	HA- 2 (1.5'-2')	Soluble	Soil	300.0	17556
820-3188-7	HA- 3 (0-.5')	Soluble	Soil	300.0	17556
820-3188-8	HA- 3 (.5'-1')	Soluble	Soil	300.0	17556
820-3188-9	HA- 3 ((1.5'-2')	Soluble	Soil	300.0	17556
820-3188-10	HA- 4 (0-.5')	Soluble	Soil	300.0	17556
820-3188-11	HA- 4 (.5'-1')	Soluble	Soil	300.0	17556
820-3188-12	HA-4 (1.5'-2')	Soluble	Soil	300.0	17556
820-3188-13	HA- 5 (0-.5')	Soluble	Soil	300.0	17556
820-3188-14	HA- 5 (.5'-1')	Soluble	Soil	300.0	17556
820-3188-15	HA-5 (1.5'-2')	Soluble	Soil	300.0	17556
820-3188-16	HA- 5 (3.5'-4')	Soluble	Soil	300.0	17556
820-3188-17	HA- 5 (4.5'-5')	Soluble	Soil	300.0	17556
820-3188-18	HA- 6 (0-.5')	Soluble	Soil	300.0	17556
820-3188-19	HA- 6 (.5'-1')	Soluble	Soil	300.0	17556
820-3188-20	HA- 6 (1.5'-2')	Soluble	Soil	300.0	17556
MB 880-17556/1-A	Method Blank	Soluble	Solid	300.0	17556
LCS 880-17556/2-A	Lab Control Sample	Soluble	Solid	300.0	17556
LCSD 880-17556/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	17556
820-3188-1 MS	HA-1 (0-0.5')	Soluble	Soil	300.0	17556
820-3188-1 MSD	HA-1 (0-0.5')	Soluble	Soil	300.0	17556
820-3188-11 MS	HA- 4 (.5'-1')	Soluble	Soil	300.0	17556
820-3188-11 MSD	HA- 4 (.5'-1')	Soluble	Soil	300.0	17556

Analysis Batch: 17734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3188-21	HA- 7 (0-.5')	Soluble	Soil	300.0	17557
820-3188-22	HA- 7 (.5'-1')	Soluble	Soil	300.0	17557
820-3188-23	HA- 7 (1.5'-2)	Soluble	Soil	300.0	17557
820-3188-24	HA- 8 (0-.5')	Soluble	Soil	300.0	17557
820-3188-25	HA- 8 (.5'-1')	Soluble	Soil	300.0	17557
820-3188-26	HA- 8 (1.5'-2')	Soluble	Soil	300.0	17557
820-3188-27	HA- 9 (0-.5')	Soluble	Soil	300.0	17557
820-3188-28	HA- 9 (.5'-1')	Soluble	Soil	300.0	17557
820-3188-29	HA- 9 (1.5'-2')	Soluble	Soil	300.0	17557
820-3188-30	HA- 10 (0-.5')	Soluble	Soil	300.0	17557
820-3188-31	HA- 10 (.5'-1')	Soluble	Soil	300.0	17557
820-3188-32	HA- 10 (1.5'-2')	Soluble	Soil	300.0	17557
820-3188-33	HA- 11 (0-.5')	Soluble	Soil	300.0	17557
820-3188-34	HA- 11 (.5'-1')	Soluble	Soil	300.0	17557
820-3188-35	HA- 11 (1.5'-2')	Soluble	Soil	300.0	17557
820-3188-36	HA- 12 (0-.5')	Soluble	Soil	300.0	17557
820-3188-37	HA- 12 (.5'-1')	Soluble	Soil	300.0	17557
820-3188-38	HA- 12 (1.5'-2')	Soluble	Soil	300.0	17557
820-3188-39	HA- 13 (0-.5')	Soluble	Soil	300.0	17557
820-3188-40	HA- 13 (.5'-1')	Soluble	Soil	300.0	17557
MB 880-17557/1-A	Method Blank	Soluble	Solid	300.0	17557
LCS 880-17557/2-A	Lab Control Sample	Soluble	Solid	300.0	17557
LCSD 880-17557/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	17557
820-3188-21 MS	HA- 7 (0-.5')	Soluble	Soil	300.0	17557

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

HPLC/IC (Continued)

Analysis Batch: 17734 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3188-21 MSD	HA- 7 (0-.5')	Soluble	Soil	300.0	17557
820-3188-31 MS	HA- 10 (.5'-1')	Soluble	Soil	300.0	17557
820-3188-31 MSD	HA- 10 (.5'-1')	Soluble	Soil	300.0	17557

Analysis Batch: 17735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3188-41	HA- 13 (1.5'-2')	Soluble	Soil	300.0	17558
820-3188-42	HA- 14 (0-.5')	Soluble	Soil	300.0	17558
820-3188-43	HA- 14 (.5'-1')	Soluble	Soil	300.0	17558
820-3188-44	HA- 15 (0-.5')	Soluble	Soil	300.0	17558
820-3188-45	HA- 15 (.5'-1')	Soluble	Soil	300.0	17558
820-3188-46	HA- 15 (1.5'-2')	Soluble	Soil	300.0	17558
820-3188-47	HA- 16 (0-.5')	Soluble	Soil	300.0	17558
820-3188-48	HA- 16 (.5'-1')	Soluble	Soil	300.0	17558
820-3188-49	HA- 16 (1.5'-2')	Soluble	Soil	300.0	17558
820-3188-50	HA- 16 (3.5'-4')	Soluble	Soil	300.0	17558
820-3188-51	HA- 16 (4.5'-5')	Soluble	Soil	300.0	17558
MB 880-17558/1-A	Method Blank	Soluble	Solid	300.0	17558
LCS 880-17558/2-A	Lab Control Sample	Soluble	Solid	300.0	17558
LCSD 880-17558/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	17558
820-3188-41 MS	HA- 13 (1.5'-2')	Soluble	Soil	300.0	17558
820-3188-41 MSD	HA- 13 (1.5'-2')	Soluble	Soil	300.0	17558
820-3188-51 MS	HA- 16 (4.5'-5')	Soluble	Soil	300.0	17558
820-3188-51 MSD	HA- 16 (4.5'-5')	Soluble	Soil	300.0	17558

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA-1 (0-0.5')

Lab Sample ID: 820-3188-1

Date Collected: 01/19/22 12:00

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	17424	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17425	01/22/22 18:20	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17528	01/24/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17660	01/25/22 12:38	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	17556	01/24/22 10:18	CH	XEN MID
Soluble	Analysis	300.0		1			17727	01/25/22 19:44	CH	XEN MID

Client Sample ID: HA- 1 (.5'-1')

Lab Sample ID: 820-3188-2

Date Collected: 01/19/22 12:05

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	17424	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17425	01/22/22 18:49	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17528	01/24/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17660	01/25/22 13:43	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	17556	01/24/22 10:18	CH	XEN MID
Soluble	Analysis	300.0		1			17727	01/25/22 20:03	CH	XEN MID

Client Sample ID: HA- 1 (1.5'-2')

Lab Sample ID: 820-3188-3

Date Collected: 01/19/22 12:10

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	17424	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17425	01/22/22 19:17	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17528	01/24/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17660	01/25/22 14:05	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	17556	01/24/22 10:18	CH	XEN MID
Soluble	Analysis	300.0		1			17727	01/25/22 20:09	CH	XEN MID

Client Sample ID: HA-2 (0-.5')

Lab Sample ID: 820-3188-4

Date Collected: 01/19/22 12:15

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	17424	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17425	01/22/22 19:45	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA-2 (0-.5')

Lab Sample ID: 820-3188-4

Date Collected: 01/19/22 12:15

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17528	01/24/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17660	01/25/22 14:27	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	17556	01/24/22 10:18	CH	XEN MID
Soluble	Analysis	300.0		10			17727	01/25/22 20:16	CH	XEN MID

Client Sample ID: HA- 2 (.5'-1')

Lab Sample ID: 820-3188-5

Date Collected: 01/19/22 12:20

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	17424	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17425	01/22/22 20:14	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17528	01/24/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17660	01/25/22 14:48	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	17556	01/24/22 10:18	CH	XEN MID
Soluble	Analysis	300.0		10			17727	01/25/22 20:22	CH	XEN MID

Client Sample ID: HA- 2 (1.5'-2')

Lab Sample ID: 820-3188-6

Date Collected: 01/19/22 12:25

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	17424	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17425	01/22/22 20:42	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	17528	01/24/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17660	01/25/22 15:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	17556	01/24/22 10:18	CH	XEN MID
Soluble	Analysis	300.0		10			17727	01/25/22 20:41	CH	XEN MID

Client Sample ID: HA- 3 (0-.5')

Lab Sample ID: 820-3188-7

Date Collected: 01/19/22 12:30

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	17424	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17425	01/22/22 21:11	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	17528	01/24/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17660	01/25/22 15:33	AJ	XEN MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 3 (0-.5')

Lab Sample ID: 820-3188-7

Date Collected: 01/19/22 12:30

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	17556	01/24/22 10:18	CH	XEN MID
Soluble	Analysis	300.0		10			17727	01/25/22 20:48	CH	XEN MID

Client Sample ID: HA- 3 (.5'-1')

Lab Sample ID: 820-3188-8

Date Collected: 01/19/22 12:35

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	17424	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17425	01/22/22 21:39	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17528	01/24/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17660	01/25/22 15:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	17556	01/24/22 10:18	CH	XEN MID
Soluble	Analysis	300.0		1			17727	01/26/22 12:27	CH	XEN MID

Client Sample ID: HA- 3 ((1.5'-2')

Lab Sample ID: 820-3188-9

Date Collected: 01/19/22 12:40

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	17424	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17425	01/22/22 22:07	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17528	01/24/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17660	01/25/22 16:17	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	17556	01/24/22 10:18	CH	XEN MID
Soluble	Analysis	300.0		10			17727	01/25/22 21:00	CH	XEN MID

Client Sample ID: HA- 4 (0-.5')

Lab Sample ID: 820-3188-10

Date Collected: 01/19/22 12:45

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	17424	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17425	01/22/22 22:36	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17528	01/24/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17660	01/25/22 16:40	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	17556	01/24/22 10:18	CH	XEN MID
Soluble	Analysis	300.0		10			17727	01/25/22 21:07	CH	XEN MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 4 (.5'-1')

Lab Sample ID: 820-3188-11

Date Collected: 01/19/22 12:50

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	17424	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17425	01/23/22 00:25	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	17528	01/24/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17660	01/25/22 17:24	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	17556	01/24/22 10:18	CH	XEN MID
Soluble	Analysis	300.0		10			17727	01/25/22 21:13	CH	XEN MID

Client Sample ID: HA-4 (1.5'-2')

Lab Sample ID: 820-3188-12

Date Collected: 01/19/22 12:55

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	17424	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17425	01/23/22 00:52	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17528	01/24/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17660	01/25/22 17:46	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	17556	01/24/22 10:18	CH	XEN MID
Soluble	Analysis	300.0		10			17727	01/25/22 21:32	CH	XEN MID

Client Sample ID: HA- 5 (0-.5')

Lab Sample ID: 820-3188-13

Date Collected: 01/19/22 13:00

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	17424	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17425	01/23/22 01:19	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17528	01/24/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17660	01/25/22 18:07	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	17556	01/24/22 10:18	CH	XEN MID
Soluble	Analysis	300.0		10			17727	01/25/22 21:38	CH	XEN MID

Client Sample ID: HA- 5 (.5'-1')

Lab Sample ID: 820-3188-14

Date Collected: 01/19/22 13:05

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	17424	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17425	01/23/22 01:46	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 5 (.5'-1')

Lab Sample ID: 820-3188-14

Date Collected: 01/19/22 13:05

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17528	01/24/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17660	01/25/22 18:28	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	17556	01/24/22 10:18	CH	XEN MID
Soluble	Analysis	300.0		10			17727	01/25/22 21:57	CH	XEN MID

Client Sample ID: HA-5 (1.5'-2')

Lab Sample ID: 820-3188-15

Date Collected: 01/19/22 13:10

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	17424	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17425	01/23/22 02:13	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	17528	01/24/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17660	01/25/22 18:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	17556	01/24/22 10:18	CH	XEN MID
Soluble	Analysis	300.0		10			17727	01/25/22 22:04	CH	XEN MID

Client Sample ID: HA- 5 (3.5'-4')

Lab Sample ID: 820-3188-16

Date Collected: 01/19/22 13:15

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	17424	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17425	01/23/22 02:40	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17528	01/24/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17660	01/25/22 19:11	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	17556	01/24/22 10:18	CH	XEN MID
Soluble	Analysis	300.0		5			17727	01/25/22 22:10	CH	XEN MID

Client Sample ID: HA- 5 (4.5'-5')

Lab Sample ID: 820-3188-17

Date Collected: 01/19/22 13:20

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	17424	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17425	01/23/22 03:07	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17528	01/24/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17660	01/25/22 19:32	AJ	XEN MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 5 (4.5'-5')

Lab Sample ID: 820-3188-17

Date Collected: 01/19/22 13:20

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	17556	01/24/22 10:18	CH	XEN MID
Soluble	Analysis	300.0		5			17727	01/25/22 22:17	CH	XEN MID

Client Sample ID: HA- 6 (0-.5')

Lab Sample ID: 820-3188-18

Date Collected: 01/19/22 13:25

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	17424	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17425	01/23/22 03:35	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	17528	01/24/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17660	01/25/22 19:53	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	17556	01/24/22 10:18	CH	XEN MID
Soluble	Analysis	300.0		10			17727	01/25/22 22:23	CH	XEN MID

Client Sample ID: HA- 6 (.5'-1')

Lab Sample ID: 820-3188-19

Date Collected: 01/19/22 13:30

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	17424	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17425	01/23/22 04:02	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	17528	01/24/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17660	01/25/22 20:14	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	17556	01/24/22 10:18	CH	XEN MID
Soluble	Analysis	300.0		10			17727	01/25/22 22:29	CH	XEN MID

Client Sample ID: HA- 6 (1.5'-2')

Lab Sample ID: 820-3188-20

Date Collected: 01/19/22 13:35

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	17424	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17425	01/23/22 04:29	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17528	01/24/22 09:02	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17660	01/25/22 20:36	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	17556	01/24/22 10:18	CH	XEN MID
Soluble	Analysis	300.0		5			17727	01/25/22 22:36	CH	XEN MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 7 (0-.5')

Lab Sample ID: 820-3188-21

Date Collected: 01/19/22 13:40

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	17426	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17429	01/21/22 23:50	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17529	01/24/22 09:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17662	01/25/22 12:38	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	17557	01/24/22 10:21	CH	XEN MID
Soluble	Analysis	300.0		10			17734	01/26/22 02:23	CH	XEN MID

Client Sample ID: HA- 7 (.5'-1')

Lab Sample ID: 820-3188-22

Date Collected: 01/19/22 13:45

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	17426	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17429	01/22/22 00:11	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17529	01/24/22 09:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17662	01/25/22 13:43	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	17557	01/24/22 10:21	CH	XEN MID
Soluble	Analysis	300.0		10			17734	01/26/22 02:59	CH	XEN MID

Client Sample ID: HA- 7 (1.5'-2)

Lab Sample ID: 820-3188-23

Date Collected: 01/19/22 13:50

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	17426	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17429	01/22/22 00:31	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17529	01/24/22 09:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17662	01/25/22 14:05	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	17557	01/24/22 10:21	CH	XEN MID
Soluble	Analysis	300.0		5			17734	01/26/22 03:11	CH	XEN MID

Client Sample ID: HA- 8 (0-.5')

Lab Sample ID: 820-3188-24

Date Collected: 01/19/22 13:55

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	17426	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17429	01/22/22 00:52	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 8 (0-.5')

Lab Sample ID: 820-3188-24

Date Collected: 01/19/22 13:55

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17529	01/24/22 09:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17662	01/25/22 14:27	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	17557	01/24/22 10:21	CH	XEN MID
Soluble	Analysis	300.0		20			17734	01/26/22 03:22	CH	XEN MID

Client Sample ID: HA- 8 (.5'-1')

Lab Sample ID: 820-3188-25

Date Collected: 01/19/22 14:00

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	17426	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17429	01/22/22 01:13	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17529	01/24/22 09:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17662	01/25/22 14:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	17557	01/24/22 10:21	CH	XEN MID
Soluble	Analysis	300.0		10			17734	01/26/22 03:34	CH	XEN MID

Client Sample ID: HA- 8 (1.5'-2')

Lab Sample ID: 820-3188-26

Date Collected: 01/19/22 14:05

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	17426	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17429	01/22/22 01:33	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	17529	01/24/22 09:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17662	01/25/22 15:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	17557	01/24/22 10:21	CH	XEN MID
Soluble	Analysis	300.0		10			17734	01/26/22 04:10	CH	XEN MID

Client Sample ID: HA- 9 (0-.5')

Lab Sample ID: 820-3188-27

Date Collected: 01/19/22 14:10

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	17426	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17429	01/22/22 01:53	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 12:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	17529	01/24/22 09:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17662	01/25/22 15:33	AJ	XEN MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 9 (0-.5')

Lab Sample ID: 820-3188-27

Date Collected: 01/19/22 14:10

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	17557	01/24/22 10:21	CH	XEN MID
Soluble	Analysis	300.0		10			17734	01/26/22 04:22	CH	XEN MID

Client Sample ID: HA- 9 (.5'-1')

Lab Sample ID: 820-3188-28

Date Collected: 01/19/22 14:15

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	17426	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17429	01/22/22 02:14	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 12:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17529	01/24/22 09:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17662	01/25/22 15:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	17557	01/24/22 10:21	CH	XEN MID
Soluble	Analysis	300.0		10			17734	01/26/22 04:34	CH	XEN MID

Client Sample ID: HA- 9 (1.5'-2')

Lab Sample ID: 820-3188-29

Date Collected: 01/19/22 14:20

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	17426	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17429	01/22/22 02:34	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 12:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17529	01/24/22 09:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17662	01/25/22 16:17	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	17557	01/24/22 10:21	CH	XEN MID
Soluble	Analysis	300.0		5			17734	01/26/22 04:45	CH	XEN MID

Client Sample ID: HA- 10 (0-.5')

Lab Sample ID: 820-3188-30

Date Collected: 01/19/22 14:25

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	17426	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17429	01/22/22 02:55	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 12:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17529	01/24/22 09:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17662	01/25/22 16:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	17557	01/24/22 10:21	CH	XEN MID
Soluble	Analysis	300.0		10			17734	01/26/22 04:57	CH	XEN MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 10 (.5'-1')

Lab Sample ID: 820-3188-31

Date Collected: 01/19/22 14:30

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	17426	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17429	01/22/22 04:18	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 12:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	17529	01/24/22 09:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17662	01/25/22 17:24	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	17557	01/24/22 10:21	CH	XEN MID
Soluble	Analysis	300.0		10			17734	01/26/22 05:09	CH	XEN MID

Client Sample ID: HA- 10 (1.5'-2')

Lab Sample ID: 820-3188-32

Date Collected: 01/19/22 14:35

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	17426	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17429	01/22/22 04:39	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 12:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17529	01/24/22 09:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17662	01/25/22 17:46	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	17557	01/24/22 10:21	CH	XEN MID
Soluble	Analysis	300.0		10			17734	01/26/22 05:45	CH	XEN MID

Client Sample ID: HA- 11 (0-.5')

Lab Sample ID: 820-3188-33

Date Collected: 01/19/22 14:40

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	17426	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17429	01/22/22 04:59	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 12:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17529	01/24/22 09:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17662	01/25/22 18:07	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	17557	01/24/22 10:21	CH	XEN MID
Soluble	Analysis	300.0		10			17734	01/26/22 05:57	CH	XEN MID

Client Sample ID: HA- 11 (.5'-1')

Lab Sample ID: 820-3188-34

Date Collected: 01/19/22 14:45

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	17426	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17429	01/22/22 05:20	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 12:30	AJ	XEN MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 11 (.5'-1')

Lab Sample ID: 820-3188-34

Date Collected: 01/19/22 14:45

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17529	01/24/22 09:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17662	01/25/22 18:28	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	17557	01/24/22 10:21	CH	XEN MID
Soluble	Analysis	300.0		10			17734	01/26/22 06:32	CH	XEN MID

Client Sample ID: HA- 11 (1.5'-2')

Lab Sample ID: 820-3188-35

Date Collected: 01/19/22 14:50

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	17426	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17429	01/22/22 05:40	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 12:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	17529	01/24/22 09:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17662	01/25/22 18:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	17557	01/24/22 10:21	CH	XEN MID
Soluble	Analysis	300.0		10			17734	01/26/22 06:44	CH	XEN MID

Client Sample ID: HA- 12 (0-.5')

Lab Sample ID: 820-3188-36

Date Collected: 01/19/22 14:55

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	17426	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17429	01/22/22 06:01	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 12:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17529	01/24/22 09:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17662	01/25/22 19:11	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	17557	01/24/22 10:21	CH	XEN MID
Soluble	Analysis	300.0		10			17734	01/26/22 06:56	CH	XEN MID

Client Sample ID: HA- 12 (.5'-1')

Lab Sample ID: 820-3188-37

Date Collected: 01/19/22 15:00

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	17426	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17429	01/22/22 06:21	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 12:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17529	01/24/22 09:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17662	01/25/22 19:32	AJ	XEN MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 12 (.5'-1')**Lab Sample ID: 820-3188-37****Date Collected: 01/19/22 15:00****Matrix: Soil****Date Received: 01/20/22 15:55**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	17557	01/24/22 10:21	CH	XEN MID
Soluble	Analysis	300.0		5			17734	01/26/22 08:40	CH	XEN MID

Client Sample ID: HA- 12 (1.5'-2')**Lab Sample ID: 820-3188-38****Date Collected: 01/19/22 15:05****Matrix: Soil****Date Received: 01/20/22 15:55**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	17426	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17429	01/22/22 06:41	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 12:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	17529	01/24/22 09:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17662	01/25/22 19:53	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	17557	01/24/22 10:21	CH	XEN MID
Soluble	Analysis	300.0		5			17734	01/26/22 08:51	CH	XEN MID

Client Sample ID: HA- 13 (0-.5')**Lab Sample ID: 820-3188-39****Date Collected: 01/19/22 15:10****Matrix: Soil****Date Received: 01/20/22 15:55**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	17426	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17429	01/22/22 07:02	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 12:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	17529	01/24/22 09:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17662	01/25/22 20:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	17557	01/24/22 10:21	CH	XEN MID
Soluble	Analysis	300.0		10			17734	01/26/22 09:03	CH	XEN MID

Client Sample ID: HA- 13 (.5'-1')**Lab Sample ID: 820-3188-40****Date Collected: 01/19/22 15:15****Matrix: Soil****Date Received: 01/20/22 15:55**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	17426	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17429	01/22/22 07:22	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 12:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17529	01/24/22 09:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17662	01/25/22 20:36	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	17557	01/24/22 10:21	CH	XEN MID
Soluble	Analysis	300.0		10			17734	01/26/22 09:15	CH	XEN MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 13 (1.5'-2')

Lab Sample ID: 820-3188-41

Date Collected: 01/19/22 15:20

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	17388	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17427	01/22/22 02:57	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 12:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17628	01/24/22 14:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17546	01/24/22 23:58	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	17558	01/24/22 10:26	CH	XEN MID
Soluble	Analysis	300.0		5			17735	01/28/22 03:02	CH	XEN MID

Client Sample ID: HA- 14 (0-.5')

Lab Sample ID: 820-3188-42

Date Collected: 01/19/22 15:25

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	17388	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17427	01/22/22 04:48	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 12:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17628	01/24/22 14:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17546	01/25/22 01:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	17558	01/24/22 10:26	CH	XEN MID
Soluble	Analysis	300.0		10			17735	01/28/22 03:25	CH	XEN MID

Client Sample ID: HA- 14 (.5'-1')

Lab Sample ID: 820-3188-43

Date Collected: 01/19/22 15:30

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	17388	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17427	01/22/22 05:08	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 12:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17628	01/24/22 14:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17546	01/25/22 01:21	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	17558	01/24/22 10:26	CH	XEN MID
Soluble	Analysis	300.0		10			17735	01/28/22 03:32	CH	XEN MID

Client Sample ID: HA- 15 (0-.5')

Lab Sample ID: 820-3188-44

Date Collected: 01/19/22 15:35

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	17388	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17427	01/22/22 05:29	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 12:30	AJ	XEN MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 15 (0-.5')

Lab Sample ID: 820-3188-44

Date Collected: 01/19/22 15:35

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17628	01/24/22 14:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17546	01/25/22 01:42	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	17558	01/24/22 10:26	CH	XEN MID
Soluble	Analysis	300.0		10			17735	01/28/22 03:40	CH	XEN MID

Client Sample ID: HA- 15 (.5'-1')

Lab Sample ID: 820-3188-45

Date Collected: 01/19/22 15:40

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	17388	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17427	01/22/22 05:49	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 12:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17628	01/24/22 14:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17546	01/25/22 02:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	17558	01/24/22 10:26	CH	XEN MID
Soluble	Analysis	300.0		5			17735	01/28/22 08:56	CH	XEN MID

Client Sample ID: HA- 15 (1.5'-2')

Lab Sample ID: 820-3188-46

Date Collected: 01/19/22 15:45

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	17388	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17427	01/22/22 06:09	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 12:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	17628	01/24/22 14:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17546	01/25/22 02:24	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	17558	01/24/22 10:26	CH	XEN MID
Soluble	Analysis	300.0		10			17735	01/28/22 20:41	CH	XEN MID

Client Sample ID: HA- 16 (0-.5')

Lab Sample ID: 820-3188-47

Date Collected: 01/19/22 15:50

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	17388	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17427	01/22/22 06:30	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 12:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	17628	01/24/22 14:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17546	01/25/22 02:45	AJ	XEN MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 16 (0-.5')

Lab Sample ID: 820-3188-47

Date Collected: 01/19/22 15:50

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	17558	01/24/22 10:26	CH	XEN MID
Soluble	Analysis	300.0		10			17735	01/28/22 20:48	CH	XEN MID

Client Sample ID: HA- 16 (.5'-1')

Lab Sample ID: 820-3188-48

Date Collected: 01/19/22 15:55

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	17388	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17427	01/22/22 06:50	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 12:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17628	01/24/22 14:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17546	01/25/22 03:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	17558	01/24/22 10:26	CH	XEN MID
Soluble	Analysis	300.0		10			17735	01/28/22 20:56	CH	XEN MID

Client Sample ID: HA- 16 (1.5'-2')

Lab Sample ID: 820-3188-49

Date Collected: 01/19/22 16:00

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	17388	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17427	01/22/22 07:11	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 12:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17628	01/24/22 14:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17546	01/25/22 03:27	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	17558	01/24/22 10:26	CH	XEN MID
Soluble	Analysis	300.0		10			17735	01/28/22 21:03	CH	XEN MID

Client Sample ID: HA- 16 (3.5'-4')

Lab Sample ID: 820-3188-50

Date Collected: 01/19/22 16:05

Matrix: Soil

Date Received: 01/20/22 15:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	17388	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17427	01/22/22 07:31	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 12:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17628	01/24/22 14:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17546	01/25/22 03:48	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	17558	01/24/22 10:26	CH	XEN MID
Soluble	Analysis	300.0		10			17735	01/28/22 21:11	CH	XEN MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Client Sample ID: HA- 16 (4.5'-5')
Date Collected: 01/19/22 16:10
Date Received: 01/20/22 15:55

Lab Sample ID: 820-3188-51
Matrix: Soil

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	17388	01/21/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17427	01/22/22 07:52	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17693	01/25/22 12:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/25/22 13:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	17628	01/24/22 14:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17546	01/25/22 04:30	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	17558	01/24/22 10:26	CH	XEN MID
Soluble	Analysis	300.0		20			17735	01/28/22 21:19	CH	XEN MID

Laboratory References:
XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Soil	Total TPH
Total BTEX		Soil	Total BTEX

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: KR Horz

Job ID: 820-3188-1
SDG: AR227020

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
820-3188-1	HA-1 (0-0.5')	Soil	01/19/22 12:00	01/20/22 15:55
820-3188-2	HA- 1 (.5'-1')	Soil	01/19/22 12:05	01/20/22 15:55
820-3188-3	HA- 1 (1.5'-2')	Soil	01/19/22 12:10	01/20/22 15:55
820-3188-4	HA-2 (0-.5')	Soil	01/19/22 12:15	01/20/22 15:55
820-3188-5	HA- 2 (.5'-1')	Soil	01/19/22 12:20	01/20/22 15:55
820-3188-6	HA- 2 (1.5'-2')	Soil	01/19/22 12:25	01/20/22 15:55
820-3188-7	HA- 3 (0-.5')	Soil	01/19/22 12:30	01/20/22 15:55
820-3188-8	HA- 3 (.5'-1')	Soil	01/19/22 12:35	01/20/22 15:55
820-3188-9	HA- 3 ((1.5'-2')	Soil	01/19/22 12:40	01/20/22 15:55
820-3188-10	HA- 4 (0-.5')	Soil	01/19/22 12:45	01/20/22 15:55
820-3188-11	HA- 4 (.5'-1')	Soil	01/19/22 12:50	01/20/22 15:55
820-3188-12	HA-4 (1.5'-2')	Soil	01/19/22 12:55	01/20/22 15:55
820-3188-13	HA- 5 (0-.5')	Soil	01/19/22 13:00	01/20/22 15:55
820-3188-14	HA- 5 (.5'-1')	Soil	01/19/22 13:05	01/20/22 15:55
820-3188-15	HA-5 (1.5'-2')	Soil	01/19/22 13:10	01/20/22 15:55
820-3188-16	HA- 5 (3.5'-4')	Soil	01/19/22 13:15	01/20/22 15:55
820-3188-17	HA- 5 (4.5'-5')	Soil	01/19/22 13:20	01/20/22 15:55
820-3188-18	HA- 6 (0-.5')	Soil	01/19/22 13:25	01/20/22 15:55
820-3188-19	HA- 6 (.5'-1')	Soil	01/19/22 13:30	01/20/22 15:55
820-3188-20	HA- 6 (1.5'-2')	Soil	01/19/22 13:35	01/20/22 15:55
820-3188-21	HA- 7 (0-.5')	Soil	01/19/22 13:40	01/20/22 15:55
820-3188-22	HA- 7 (.5'-1')	Soil	01/19/22 13:45	01/20/22 15:55
820-3188-23	HA- 7 (1.5'-2)	Soil	01/19/22 13:50	01/20/22 15:55
820-3188-24	HA- 8 (0-.5')	Soil	01/19/22 13:55	01/20/22 15:55
820-3188-25	HA- 8 (.5'-1')	Soil	01/19/22 14:00	01/20/22 15:55
820-3188-26	HA- 8 (1.5'-2')	Soil	01/19/22 14:05	01/20/22 15:55
820-3188-27	HA- 9 (0-.5')	Soil	01/19/22 14:10	01/20/22 15:55
820-3188-28	HA- 9 (.5'-1')	Soil	01/19/22 14:15	01/20/22 15:55
820-3188-29	HA- 9 (1.5'-2')	Soil	01/19/22 14:20	01/20/22 15:55
820-3188-30	HA- 10 (0-.5')	Soil	01/19/22 14:25	01/20/22 15:55
820-3188-31	HA- 10 (.5'-1')	Soil	01/19/22 14:30	01/20/22 15:55
820-3188-32	HA- 10 (1.5'-2')	Soil	01/19/22 14:35	01/20/22 15:55
820-3188-33	HA- 11 (0-.5')	Soil	01/19/22 14:40	01/20/22 15:55
820-3188-34	HA- 11 (.5'-1')	Soil	01/19/22 14:45	01/20/22 15:55
820-3188-35	HA- 11 (1.5'-2')	Soil	01/19/22 14:50	01/20/22 15:55
820-3188-36	HA- 12 (0-.5')	Soil	01/19/22 14:55	01/20/22 15:55
820-3188-37	HA- 12 (.5'-1')	Soil	01/19/22 15:00	01/20/22 15:55
820-3188-38	HA- 12 (1.5'-2')	Soil	01/19/22 15:05	01/20/22 15:55
820-3188-39	HA- 13 (0-.5')	Soil	01/19/22 15:10	01/20/22 15:55
820-3188-40	HA- 13 (.5'-1')	Soil	01/19/22 15:15	01/20/22 15:55
820-3188-41	HA- 13 (1.5'-2')	Soil	01/19/22 15:20	01/20/22 15:55
820-3188-42	HA- 14 (0-.5')	Soil	01/19/22 15:25	01/20/22 15:55
820-3188-43	HA- 14 (.5'-1')	Soil	01/19/22 15:30	01/20/22 15:55
820-3188-44	HA- 15 (0-.5')	Soil	01/19/22 15:35	01/20/22 15:55
820-3188-45	HA- 15 (.5'-1')	Soil	01/19/22 15:40	01/20/22 15:55
820-3188-46	HA- 15 (1.5'-2')	Soil	01/19/22 15:45	01/20/22 15:55
820-3188-47	HA- 16 (0-.5')	Soil	01/19/22 15:50	01/20/22 15:55
820-3188-48	HA- 16 (.5'-1')	Soil	01/19/22 15:55	01/20/22 15:55
820-3188-49	HA- 16 (1.5'-2')	Soil	01/19/22 16:00	01/20/22 15:55
820-3188-50	HA- 16 (3.5'-4')	Soil	01/19/22 16:05	01/20/22 15:55
820-3188-51	HA- 16 (4.5'-5')	Soil	01/19/22 16:10	01/20/22 15:55

CHAIN OF CUSTODY RECORD

Terracon										LAB USE ONLY	
Laboratory: Xenco Laboratories Address: 6701 Aberdeen Avenue, Suite 9 Lubbock, TX 79424 Phone: (806) 794-1296 Contact: _____ PO/SO #: _____										DUE DATE:	
Project Manager: J. Guesnier Sampler's Name: Aaron Adams Project Number: AR227020 Project Name: JR HORZ No. Type of Containers: _____ 4 oz Glass: _____										TEMP OF COOLER WHEN RECEIVED (°C) -3.1/-3.2°C	
Identifying Marks of Sample(s) Start Depth: _____ End Depth: _____ No. Type of Containers: _____ 4 oz Glass: _____										Page 2 of 6	
Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	No. Type of Containers	4 oz Glass	ANALYSIS REQUESTED	LAB USE ONLY
S	01/19/22	12:50		X	HA-4 (.5'-1')	.5'	1'	1	1	Chloride (EPA Method 300)	TPH 8015 extended
S	01/19/22	12:55		X	HA-4 (1.5'-2')	1.5'	2'	1	1	BTEX (EPA Method 8021B)	
S	01/19/22	13:00		X	HA-5 (0-.5')	0	.5'	1	1		
S	01/19/22	13:05		X	HA-5 (.5'-1')	.5'	1'	1	1		
S	01/19/22	13:10		X	HA-5 (1.5'-2')	1.5'	2'	1	1		
S	01/19/22	13:15		X	HA-5 (3.5'-4')	3.5'	4'	1	1		
S	01/19/22	13:20		X	HA-5 (4.5'-5')	4.5'	5'	1	1		
S	01/19/22	13:25		X	HA-6 (0-.5')	0	.5'	1	1		
S	01/19/22	13:30		X	HA-6 (.5'-1')	.5'	1'	1	1		
S	01/19/22	13:35		X	HA-6 (1.5'-2')	1.5'	2'	1	1		
TURNAROUND TIME										Yes	No
Relinquished by (Signature): _____ Date: 1-20-2023 15:55 Received by (Signature): _____ Date: 1/20/22 15:55 Relinquished by (Signature): _____ Date: _____ Received by (Signature): _____ Date: _____ Relinquished by (Signature): _____ Date: _____ Received by (Signature): _____ Date: _____										NOTES: 1. ERIN.LOYD@TERRACON.COM 2. JRGUESNIER@TERRACON.COM	
Matrix: WW-Wastewater W - Water Container: VOA - 40 ml Vial A/G - Amber Glass 1L 350 ml = Glass wide mouth P/O - Plastic or other										S - Soil L - Liquid A - Air Bag C - Charcoal tube SL - Sludge	
Lubbock, Texas 79424 ■ 806-300-0140 sourceful ■ Reliable											

CHAIN OF CUSTODY RECORD

Terracon										LABORATORY		ANALYSIS REQUESTED		LAB USE ONLY			
Office Location Lubbock										Xenco Laboratories 6701 Aberdeen Avenue, Suite 9 Lubbock, TX 79424		TEMP OF COOLER WHEN RECEIVED (°C) -3.1/-3.2		DUE DATE:			
Project Manager: J. Guesnier										Phone: (806) 794-1296		Page 3 of 6					
Sampler's Name: Aaron Adams										Contact: PO/SO #:							
Sampler's Signature: 																	
Project Number		Project Name		No. Type of Containers		No. Type of Containers		No. Type of Containers		No. Type of Containers		No. Type of Containers		No. Type of Containers			
AR227020		JR HORZ		4 Oz Glass		4 Oz Glass		4 Oz Glass		4 Oz Glass		4 Oz Glass		4 Oz Glass			
Matrix	Date	Time	Grab	Comp	Identifying Marks of Sample(s)	Start Depth	End Depth	Chloride (EPA Method 300)	BTEX (EPA Method 8021B)	TPH 8015 extended	Lab Sample ID						
S	01/19/22	13:40	X		HA-7 (0-.5')	0	.5'	X	X	X							
S	01/19/22	13:45	X		HA-7 (.5'-1')	.5'	1'	X	X	X							
S	01/19/22	13:50	X		HA-7 (1.5'-2')	1.5'	2'	X	X	X							
S	01/19/22	13:55	X		HA-8 (0-.5')	0	.5'	X	X	X							
S	01/19/22	14:00	X		HA-8 (.5'-1')	.5'	1'	X	X	X							
S	01/19/22	14:05	X		HA-8 (1.5'-2')	1.5'	2'	X	X	X							
S	01/19/22	14:10	X		HA-9 (0-.5')	0	.5'	X	X	X							
S	01/19/22	14:15	X		HA-9 (.5'-1')	.5'	1'	X	X	X							
S	01/19/22	14:20	X		HA-9 (1.5'-2')	1.5'	2'	X	X	X							
S	01/19/22	14:25	X		HA-10(0-.5')	0	.5'	X	X	X							
TURNAROUND TIME										Normal		48-Hour Rush		24-Hour Rush		TRRP Laboratory Review Checklist	
Relinquished by (Signature) 										Date: 1-20-2022		Time: 15:55		Date: 1/20/22		Time: 15:55	
Relinquished by (Signature)										Date:		Time:		Date:		Time:	
Relinquished by (Signature)										Date:		Time:		Date:		Time:	
Relinquished by (Signature)										Date:		Time:		Date:		Time:	
Matrix										WW-Wastewater		W - Water		L - Liquid		A - Air Bag	
Container										VOA - 40 ml Vial		A/G - Amber Glass 1L		C - Charcoal tube		SL - Sludge	
										250 ml - Glass wide mouth		P/O - Plastic or other					
Lubbock, Texas 79424 ■ 806-300-0140																	
sourceful ■ Reliable																	

CHAIN OF CUSTODY RECORD

Terracon										LAB USE ONLY	
Laboratory: Xenco Laboratories Address: 6701 Aberdeen Avenue, Suite 9 Lubbock, TX 79424 Phone: (806) 794-1296 Contact: _____ PO/SO #: _____ Sampler's Signature: <i>[Signature]</i>										DUE DATE: _____ TEMP OF COOLER WHEN RECEIVED (°C): -3.1/-3.2°C Page 4 of 6	
Project Manager: J. Guesnier Sampler's Name: Aaron Adams Project Number: AR227020 Project Name: JR HORZ										ANALYSIS REQUESTED	
Identifying Marks of Sample(s) No. Type of Containers 4 oz Glass										BTEX (EPA Method 8021B) TPH 8015 extended Chloride (EPA Method 300)	
Matrix	Date	Time	Comp	Grab	Start Depth	End Depth	No. Type of Containers			Lab Sample ID	
S	01/19/22	14:30		X	5'	1'	1			X	
S	01/19/22	14:35		X	1.5'	2'	1			X	
S	01/19/22	14:40		X	0	.5'	1			X	
S	01/19/22	14:45		X	.5'	1'	1			X	
S	01/19/22	14:50		X	1.5'	2'	1			X	
S	01/19/22	14:55		X	0	.5'	1			X	
S	01/19/22	15:00		X	.5'	1'	1			X	
S	01/19/22	15:05		X	1.5'	2'	1			X	
S	01/19/22	15:10		X	0	.5'	1			X	
S	01/19/22	15:15		X	.5'	1'	1			X	

TURNAROUND TIME		48-Hour Rush		24-Hour Rush		TRRP Laboratory Review Checklist	
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time	Yes	No
<i>[Signature]</i>	1-20-2022	15:55	<i>[Signature]</i>	1/20/22	15:55		
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time		
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time		
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time		

Matrix	WW-Wastewater	W - Water	S - Soil	L - Liquid	A - Air Bag	C - Charcoal tube	SL - Sludge
Container	VOA - 40 ml vial	A/G - Amber Glass 1L	250 ml - Glass wide mouth	P/O - Plastic or other			

Lubbock, Texas 79424 ■ 806-300-0140

sourceful ■ Reliable

CHAIN OF CUSTODY RECORD

Terracon										LABORATORY		ANALYSIS REQUESTED		LAB USE ONLY	
Office Location <u>Lubbock</u>										Xenco Laboratories 6701 Aberdeen Avenue, Suite 9 Lubbock, TX 79424		TEMP OF COOLER WHEN RECEIVED (°C) <u>-3.1/-3.2</u>		DUE DATE:	
Project Manager: J. Guesnier										Phone: <u>(806) 794-1296</u>		Page <u>5</u> of <u>6</u>			
Sampler's Name: <u>Aaron Adams</u>										Contact: _____					
Project Number: <u>AR227020</u>										PO/SO #: _____					
Project Name: <u>JR HORZ</u>										Sampler's Signature: 					
Identifying Marks of Sample(s)										No. Type of Containers					
Matrix	Date	Time	Comp	Grab	Start Depth	End Depth				4 Oz Glass					
S	01/19/22	15:20		X	1.5'	2'	HA-13 (1.5'-2')			1	X	X	Chloride (EPA Method 300)		
S	01/19/22	15:25		X	0	.5'	HA-14 (0-.5')			1	X	X	BTEX (EPA Method 8021B)		
S	01/19/22	15:30		X	.5'	1'	HA-14 (.5'-1')			1	X	X			
S	01/19/22	15:35		X	0	.5'	HA-15 (0-.5')			1	X	X			
S	01/19/22	15:40		X	.5'	1'	HA-15 (.5'-1')			1	X	X			
S	01/19/22	15:45		X	1.5'	2'	HA-15 (1.5'-2')			1	X	X			
S	01/19/22	15:50		X	0	.5'	HA-16 (0-.5')			1	X	X			
S	01/19/22	15:55		X	.5'	1'	HA-16 (.5'-1')			1	X	X			
S	01/19/22	16:00		X	1.5'	2'	HA-16 (1.5'-2')			1	X	X			
S	01/19/22	16:05		X	3.5'	4'	HA-16 (3.5'-4')			1	X	X			

TURNAROUND TIME		48-Hour Rush		24-Hour Rush		TRRP Laboratory Review Checklist	
Relinquished by (Signature)	Date	Time	Date	Time	Date	Time	Notes
	1-20-2022	15:55			1/20/22	15:55	1. ERIN LOYD@TERRACON.COM 2. JRGUESNIE@TERRACON.COM
Relinquished by (Signature)	Date	Time	Date	Time	Date	Time	
Relinquished by (Signature)	Date	Time	Date	Time	Date	Time	
Relinquished by (Signature)	Date	Time	Date	Time	Date	Time	

Mark	WW Wastewater	W - Water	S - Soil	L - Liquid	A - Air Bag	C - Charcoal tube	SL - Sludge
Container	VOL - 40 ml / ml	A/G - Amber Glass 1L	250 ml = Glass wide mouth	P/O - Plastic or other			

Lubbock, Texas 79424 ■ 806-300-0140

sourceful ■ Reliable

CHAIN OF CUSTODY RECORD

sourceful ■ Reliable

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 820-3188-1

SDG Number: AR227020

Login Number: 3188

List Number: 1

Creator: Ruggles, Ashley

List Source: Eurofins Lubbock

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 820-3188-1

SDG Number: AR227020

Login Number: 3188

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 01/21/22 11:59 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	



Environment Testing America

ANALYTICAL REPORT

Eurofins Lubbock
6701 Aberdeen Ave.
Suite 8
Lubbock, TX 79424
Tel: (806)794-1296

Laboratory Job ID: 820-3748-1

Laboratory Sample Delivery Group: AR227070

Client Project/Site: JR HORZ

Revision: 1

For:

Terracon Consulting Eng & Scientists
5847 50th St
Lubbock, Texas 79424

Attn: Joseph Guesnier

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

Authorized for release by:
4/8/2022 10:16:57 AM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Laboratory Job ID: 820-3748-1
SDG: AR227070

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Coliform MCLs

· Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

Warranties, Terms, and Conditions

· Analyses for Field Parameters are performed by EQC field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification #02015

VL = field staff performs tests under NJ State certification #06005

WG = field staff performs tests under NJ State certification #PA001

H = field staff performs tests under NJ NELAP certification #PA093, PA NELAP certification # 46-

05499

· Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.

· The report shall not be reproduced, except in full, without the written consent of the laboratory

· All samples are collected as "grab" samples unless otherwise identified.

· Reported results related only to the samples as tested. EQC is not responsible for sample integrity unless sampling has been performed by a member of our staff.

· EQC is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.

· Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.

· The following personnel or their deputies have approved the results of the tests performed by EQC: Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).



Jessica Kramer
Project Manager
4/8/2022 10:16:57 AM

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Laboratory Job ID: 820-3748-1
SDG: AR227070

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	20
QC Sample Results	22
QC Association Summary	31
Lab Chronicle	37
Certification Summary	43
Method Summary	44
Sample Summary	45
Chain of Custody	46
Receipt Checklists	50

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3748-1
SDG: AR227070

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
-----------	-----------------------

U	Indicates the analyte was analyzed for but not detected.
---	--

GC Semi VOA

Qualifier	Qualifier Description
-----------	-----------------------

U	Indicates the analyte was analyzed for but not detected.
---	--

HPLC/IC

Qualifier	Qualifier Description
-----------	-----------------------

4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
--------------	---

α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3748-1
SDG: AR227070

Job ID: 820-3748-1

Laboratory: Eurofins Lubbock

Narrative

Job Narrative 820-3748-1

Receipt

The samples were received on 3/24/2022 1:43 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -9.4°C

GC/MS VOA

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: (880-12750-C-11-A) and (880-12750-C-11-A MS). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Job ID: 820-3748-2

Laboratory: Eurofins Lubbock

Narrative

Job Narrative 820-3748-2

Receipt

The samples were received on 3/24/2022 1:43 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -9.4°C

GC/MS VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 860-47737.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3748-1
SDG: AR227070

Client Sample ID: HA-17 (0-0.5)

Lab Sample ID: 820-3748-1

Date Collected: 03/22/22 11:00

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg		03/25/22 14:01	03/25/22 19:55	1
Toluene	<0.00500	U	0.00500		mg/Kg		03/25/22 14:01	03/25/22 19:55	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg		03/25/22 14:01	03/25/22 19:55	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg		03/25/22 14:01	03/25/22 19:55	1
o-Xylene	<0.00100	U	0.00100		mg/Kg		03/25/22 14:01	03/25/22 19:55	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg		03/25/22 14:01	03/25/22 19:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		56 - 150	03/25/22 14:01	03/25/22 19:55	1
4-Bromofluorobenzene (Surr)	104		68 - 152	03/25/22 14:01	03/25/22 19:55	1
Dibromofluoromethane (Surr)	98		53 - 142	03/25/22 14:01	03/25/22 19:55	1
Toluene-d8 (Surr)	99		70 - 130	03/25/22 14:01	03/25/22 19:55	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200		mg/Kg			03/28/22 16:34	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/28/22 12:15	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/28/22 16:32	03/28/22 20:07	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/28/22 16:32	03/28/22 20:07	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/28/22 16:32	03/28/22 20:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		65 - 130	03/28/22 16:32	03/28/22 20:07	1
o-Terphenyl (Surr)	107		65 - 130	03/28/22 16:32	03/28/22 20:07	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.4		10.1		mg/Kg		03/29/22 19:11	03/30/22 03:07	1

Client Sample ID: HA-18 (0-0.5)

Lab Sample ID: 820-3748-3

Date Collected: 03/22/22 11:05

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00101	U	0.00101		mg/Kg		03/25/22 14:01	03/25/22 20:15	1
Toluene	<0.00505	U	0.00505		mg/Kg		03/25/22 14:01	03/25/22 20:15	1
Ethylbenzene	<0.00101	U	0.00101		mg/Kg		03/25/22 14:01	03/25/22 20:15	1
m,p-Xylenes	<0.00202	U	0.00202		mg/Kg		03/25/22 14:01	03/25/22 20:15	1
o-Xylene	<0.00101	U	0.00101		mg/Kg		03/25/22 14:01	03/25/22 20:15	1
Xylenes, Total	<0.00202	U	0.00202		mg/Kg		03/25/22 14:01	03/25/22 20:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		56 - 150	03/25/22 14:01	03/25/22 20:15	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3748-1
SDG: AR227070

Client Sample ID: HA-18 (0-0.5)

Lab Sample ID: 820-3748-3

Date Collected: 03/22/22 11:05

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		68 - 152	03/25/22 14:01	03/25/22 20:15	1
Dibromofluoromethane (Surr)	99		53 - 142	03/25/22 14:01	03/25/22 20:15	1
Toluene-d8 (Surr)	98		70 - 130	03/25/22 14:01	03/25/22 20:15	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00202	U	0.00202		mg/Kg			03/28/22 16:34	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			03/28/22 12:15	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		03/28/22 16:32	03/28/22 21:05	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		03/28/22 16:32	03/28/22 21:05	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		03/28/22 16:32	03/28/22 21:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		65 - 130				03/28/22 16:32	03/28/22 21:05	1
o-Terphenyl (Surr)	108		65 - 130				03/28/22 16:32	03/28/22 21:05	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1		mg/Kg		03/29/22 19:11	03/30/22 03:19	1

Client Sample ID: HA-19 (0-0.5)

Lab Sample ID: 820-3748-5

Date Collected: 03/22/22 11:10

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000992	U	0.000992		mg/Kg		03/25/22 14:01	03/25/22 20:35	1
Toluene	<0.00496	U	0.00496		mg/Kg		03/25/22 14:01	03/25/22 20:35	1
Ethylbenzene	<0.000992	U	0.000992		mg/Kg		03/25/22 14:01	03/25/22 20:35	1
m,p-Xylenes	<0.00198	U	0.00198		mg/Kg		03/25/22 14:01	03/25/22 20:35	1
o-Xylene	<0.000992	U	0.000992		mg/Kg		03/25/22 14:01	03/25/22 20:35	1
Xylenes, Total	<0.00198	U	0.00198		mg/Kg		03/25/22 14:01	03/25/22 20:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		56 - 150				03/25/22 14:01	03/25/22 20:35	1
4-Bromofluorobenzene (Surr)	105		68 - 152				03/25/22 14:01	03/25/22 20:35	1
Dibromofluoromethane (Surr)	98		53 - 142				03/25/22 14:01	03/25/22 20:35	1
Toluene-d8 (Surr)	98		70 - 130				03/25/22 14:01	03/25/22 20:35	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00198	U	0.00198		mg/Kg			03/28/22 16:34	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3748-1
SDG: AR227070

Client Sample ID: HA-19 (0-0.5)

Lab Sample ID: 820-3748-5

Date Collected: 03/22/22 11:10

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.8	U	50.8		mg/Kg			03/28/22 12:15	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.8	U	50.8		mg/Kg		03/28/22 16:32	03/28/22 21:25	1
Diesel Range Organics (Over C10-C28)	<50.8	U	50.8		mg/Kg		03/28/22 16:32	03/28/22 21:25	1
Oil Range Organics (Over C28-C36)	<50.8	U	50.8		mg/Kg		03/28/22 16:32	03/28/22 21:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	91		65 - 130				03/28/22 16:32	03/28/22 21:25	1
o-Terphenyl (Surr)	99		65 - 130				03/28/22 16:32	03/28/22 21:25	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1		mg/Kg		03/29/22 19:11	03/30/22 03:31	1

Client Sample ID: HA-20 (0-0.5)

Lab Sample ID: 820-3748-7

Date Collected: 03/22/22 11:15

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg		03/25/22 14:01	03/25/22 20:56	1
Toluene	<0.00501	U	0.00501		mg/Kg		03/25/22 14:01	03/25/22 20:56	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg		03/25/22 14:01	03/25/22 20:56	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg		03/25/22 14:01	03/25/22 20:56	1
o-Xylene	<0.00100	U	0.00100		mg/Kg		03/25/22 14:01	03/25/22 20:56	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg		03/25/22 14:01	03/25/22 20:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		56 - 150				03/25/22 14:01	03/25/22 20:56	1
4-Bromofluorobenzene (Surr)	105		68 - 152				03/25/22 14:01	03/25/22 20:56	1
Dibromofluoromethane (Surr)	97		53 - 142				03/25/22 14:01	03/25/22 20:56	1
Toluene-d8 (Surr)	99		70 - 130				03/25/22 14:01	03/25/22 20:56	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200		mg/Kg			03/28/22 16:34	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.5	U	49.5		mg/Kg			03/28/22 12:15	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.5	U	49.5		mg/Kg		03/28/22 16:32	03/28/22 21:44	1
Diesel Range Organics (Over C10-C28)	<49.5	U	49.5		mg/Kg		03/28/22 16:32	03/28/22 21:44	1
Oil Range Organics (Over C28-C36)	<49.5	U	49.5		mg/Kg		03/28/22 16:32	03/28/22 21:44	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3748-1
SDG: AR227070

Client Sample ID: HA-20 (0-0.5)

Lab Sample ID: 820-3748-7

Date Collected: 03/22/22 11:15

Matrix: Solid

Date Received: 03/24/22 13:43

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	88		65 - 130	03/28/22 16:32	03/28/22 21:44	1
o-Terphenyl (Surr)	97		65 - 130	03/28/22 16:32	03/28/22 21:44	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.9		10.1		mg/Kg		03/29/22 19:11	03/30/22 03:42	1

Client Sample ID: HA-21 (0-0.5)

Lab Sample ID: 820-3748-9

Date Collected: 03/22/22 11:20

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00101	U	0.00101		mg/Kg		03/25/22 14:01	03/26/22 02:42	1
Toluene	<0.00503	U	0.00503		mg/Kg		03/25/22 14:01	03/26/22 02:42	1
Ethylbenzene	<0.00101	U	0.00101		mg/Kg		03/25/22 14:01	03/26/22 02:42	1
m,p-Xylenes	<0.00201	U	0.00201		mg/Kg		03/25/22 14:01	03/26/22 02:42	1
o-Xylene	<0.00101	U	0.00101		mg/Kg		03/25/22 14:01	03/26/22 02:42	1
Xylenes, Total	<0.00201	U	0.00201		mg/Kg		03/25/22 14:01	03/26/22 02:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		56 - 150	03/25/22 14:01	03/26/22 02:42	1
4-Bromofluorobenzene (Surr)	113		68 - 152	03/25/22 14:01	03/26/22 02:42	1
Dibromofluoromethane (Surr)	105		53 - 142	03/25/22 14:01	03/26/22 02:42	1
Toluene-d8 (Surr)	110		70 - 130	03/25/22 14:01	03/26/22 02:42	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00201	U	0.00201		mg/Kg			03/28/22 16:34	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			03/28/22 12:15	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		03/28/22 16:32	03/28/22 22:04	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		03/28/22 16:32	03/28/22 22:04	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		03/28/22 16:32	03/28/22 22:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		65 - 130	03/28/22 16:32	03/28/22 22:04	1
o-Terphenyl (Surr)	105		65 - 130	03/28/22 16:32	03/28/22 22:04	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.8		10.1		mg/Kg		03/29/22 19:11	03/31/22 13:56	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3748-1
SDG: AR227070

Client Sample ID: HA-22 (0-0.5)

Lab Sample ID: 820-3748-11

Date Collected: 03/22/22 11:25

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00101	U	0.00101		mg/Kg		03/25/22 14:01	03/26/22 03:03	1
Toluene	<0.00505	U	0.00505		mg/Kg		03/25/22 14:01	03/26/22 03:03	1
Ethylbenzene	<0.00101	U	0.00101		mg/Kg		03/25/22 14:01	03/26/22 03:03	1
m,p-Xylenes	<0.00202	U	0.00202		mg/Kg		03/25/22 14:01	03/26/22 03:03	1
o-Xylene	<0.00101	U	0.00101		mg/Kg		03/25/22 14:01	03/26/22 03:03	1
Xylenes, Total	<0.00202	U	0.00202		mg/Kg		03/25/22 14:01	03/26/22 03:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		56 - 150	03/25/22 14:01	03/26/22 03:03	1
4-Bromofluorobenzene (Surr)	111		68 - 152	03/25/22 14:01	03/26/22 03:03	1
Dibromofluoromethane (Surr)	101		53 - 142	03/25/22 14:01	03/26/22 03:03	1
Toluene-d8 (Surr)	110		70 - 130	03/25/22 14:01	03/26/22 03:03	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00202	U	0.00202		mg/Kg			03/28/22 16:34	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			03/28/22 12:15	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		03/28/22 16:32	03/28/22 22:42	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		03/28/22 16:32	03/28/22 22:42	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		03/28/22 16:32	03/28/22 22:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	88		65 - 130	03/28/22 16:32	03/28/22 22:42	1
o-Terphenyl (Surr)	96		65 - 130	03/28/22 16:32	03/28/22 22:42	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	30.8		10.2		mg/Kg		03/29/22 19:11	03/31/22 14:08	1

Client Sample ID: HA-23 (0-0.5)

Lab Sample ID: 820-3748-13

Date Collected: 03/22/22 11:30

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00101	U	0.00101		mg/Kg		03/25/22 14:01	03/26/22 03:24	1
Toluene	<0.00505	U	0.00505		mg/Kg		03/25/22 14:01	03/26/22 03:24	1
Ethylbenzene	<0.00101	U	0.00101		mg/Kg		03/25/22 14:01	03/26/22 03:24	1
m,p-Xylenes	<0.00202	U	0.00202		mg/Kg		03/25/22 14:01	03/26/22 03:24	1
o-Xylene	<0.00101	U	0.00101		mg/Kg		03/25/22 14:01	03/26/22 03:24	1
Xylenes, Total	<0.00202	U	0.00202		mg/Kg		03/25/22 14:01	03/26/22 03:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		56 - 150	03/25/22 14:01	03/26/22 03:24	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3748-1
SDG: AR227070

Client Sample ID: HA-23 (0-0.5)

Lab Sample ID: 820-3748-13

Date Collected: 03/22/22 11:30

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		68 - 152	03/25/22 14:01	03/26/22 03:24	1
Dibromofluoromethane (Surr)	103		53 - 142	03/25/22 14:01	03/26/22 03:24	1
Toluene-d8 (Surr)	111		70 - 130	03/25/22 14:01	03/26/22 03:24	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00202	U	0.00202		mg/Kg			03/28/22 16:34	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			03/28/22 12:15	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		03/28/22 16:32	03/28/22 23:02	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		03/28/22 16:32	03/28/22 23:02	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		03/28/22 16:32	03/28/22 23:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		65 - 130				03/28/22 16:32	03/28/22 23:02	1
o-Terphenyl (Surr)	106		65 - 130				03/28/22 16:32	03/28/22 23:02	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1		mg/Kg		03/29/22 19:11	03/30/22 05:42	1

Client Sample ID: HA-24 (0-0.5)

Lab Sample ID: 820-3748-15

Date Collected: 03/22/22 11:35

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00101	U	0.00101		mg/Kg		03/25/22 14:01	03/26/22 03:45	1
Toluene	<0.00505	U	0.00505		mg/Kg		03/25/22 14:01	03/26/22 03:45	1
Ethylbenzene	<0.00101	U	0.00101		mg/Kg		03/25/22 14:01	03/26/22 03:45	1
m,p-Xylenes	<0.00202	U	0.00202		mg/Kg		03/25/22 14:01	03/26/22 03:45	1
o-Xylene	<0.00101	U	0.00101		mg/Kg		03/25/22 14:01	03/26/22 03:45	1
Xylenes, Total	<0.00202	U	0.00202		mg/Kg		03/25/22 14:01	03/26/22 03:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		56 - 150				03/25/22 14:01	03/26/22 03:45	1
4-Bromofluorobenzene (Surr)	120		68 - 152				03/25/22 14:01	03/26/22 03:45	1
Dibromofluoromethane (Surr)	104		53 - 142				03/25/22 14:01	03/26/22 03:45	1
Toluene-d8 (Surr)	114		70 - 130				03/25/22 14:01	03/26/22 03:45	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00202	U	0.00202		mg/Kg			03/28/22 16:34	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3748-1
SDG: AR227070

Client Sample ID: HA-24 (0-0.5)

Lab Sample ID: 820-3748-15

Date Collected: 03/22/22 11:35

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.3	U	49.3		mg/Kg			03/28/22 12:15	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.3	U	49.3		mg/Kg		03/28/22 16:32	03/28/22 23:22	1
Diesel Range Organics (Over C10-C28)	<49.3	U	49.3		mg/Kg		03/28/22 16:32	03/28/22 23:22	1
Oil Range Organics (Over C28-C36)	<49.3	U	49.3		mg/Kg		03/28/22 16:32	03/28/22 23:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		65 - 130				03/28/22 16:32	03/28/22 23:22	1
o-Terphenyl (Surr)	110		65 - 130				03/28/22 16:32	03/28/22 23:22	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1070		10.1		mg/Kg		03/29/22 19:11	03/30/22 05:53	1

Client Sample ID: HA-24 (0.5-1)

Lab Sample ID: 820-3748-16

Date Collected: 03/22/22 11:37

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00101	U	0.00101		mg/Kg		04/01/22 12:20	04/01/22 14:56	1
Toluene	<0.00505	U	0.00505		mg/Kg		04/01/22 12:20	04/01/22 14:56	1
Ethylbenzene	<0.00101	U	0.00101		mg/Kg		04/01/22 12:20	04/01/22 14:56	1
m,p-Xylenes	<0.00202	U	0.00202		mg/Kg		04/01/22 12:20	04/01/22 14:56	1
o-Xylene	<0.00101	U	0.00101		mg/Kg		04/01/22 12:20	04/01/22 14:56	1
Xylenes, Total	<0.00202	U	0.00202		mg/Kg		04/01/22 12:20	04/01/22 14:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		56 - 150				04/01/22 12:20	04/01/22 14:56	1
4-Bromofluorobenzene (Surr)	107		68 - 152				04/01/22 12:20	04/01/22 14:56	1
Dibromofluoromethane (Surr)	103		53 - 142				04/01/22 12:20	04/01/22 14:56	1
Toluene-d8 (Surr)	100		70 - 130				04/01/22 12:20	04/01/22 14:56	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00202	U	0.00202		mg/Kg			04/04/22 14:29	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<51.2	U	51.2		mg/Kg			04/07/22 07:56	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<51.2	U	51.2		mg/Kg		04/05/22 20:10	04/06/22 23:22	1
Diesel Range Organics (Over C10-C28)	<51.2	U	51.2		mg/Kg		04/05/22 20:10	04/06/22 23:22	1
Oil Range Organics (Over C28-C36)	<51.2	U	51.2		mg/Kg		04/05/22 20:10	04/06/22 23:22	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3748-1
SDG: AR227070

Client Sample ID: HA-24 (0.5-1)

Lab Sample ID: 820-3748-16

Date Collected: 03/22/22 11:37

Matrix: Solid

Date Received: 03/24/22 13:43

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	88		65 - 130	04/05/22 20:10	04/06/22 23:22	1
o-Terphenyl (Surr)	105		65 - 130	04/05/22 20:10	04/06/22 23:22	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	941		9.90		mg/Kg		04/07/22 09:55	04/07/22 13:42	1

Client Sample ID: HA-25 (0-0.5)

Lab Sample ID: 820-3748-17

Date Collected: 03/22/22 11:40

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00101	U	0.00101		mg/Kg		03/25/22 14:01	03/26/22 04:06	1
Toluene	<0.00505	U	0.00505		mg/Kg		03/25/22 14:01	03/26/22 04:06	1
Ethylbenzene	<0.00101	U	0.00101		mg/Kg		03/25/22 14:01	03/26/22 04:06	1
m,p-Xylenes	<0.00202	U	0.00202		mg/Kg		03/25/22 14:01	03/26/22 04:06	1
o-Xylene	<0.00101	U	0.00101		mg/Kg		03/25/22 14:01	03/26/22 04:06	1
Xylenes, Total	<0.00202	U	0.00202		mg/Kg		03/25/22 14:01	03/26/22 04:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		56 - 150	03/25/22 14:01	03/26/22 04:06	1
4-Bromofluorobenzene (Surr)	112		68 - 152	03/25/22 14:01	03/26/22 04:06	1
Dibromofluoromethane (Surr)	106		53 - 142	03/25/22 14:01	03/26/22 04:06	1
Toluene-d8 (Surr)	111		70 - 130	03/25/22 14:01	03/26/22 04:06	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00202	U	0.00202		mg/Kg			03/28/22 16:34	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/28/22 12:15	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/28/22 16:32	03/28/22 23:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/28/22 16:32	03/28/22 23:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/28/22 16:32	03/28/22 23:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		65 - 130	03/28/22 16:32	03/28/22 23:41	1
o-Terphenyl (Surr)	104		65 - 130	03/28/22 16:32	03/28/22 23:41	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.5		10.0		mg/Kg		03/29/22 19:11	03/30/22 06:05	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3748-1
SDG: AR227070

Client Sample ID: HA-26 (0-0.5)

Lab Sample ID: 820-3748-19

Date Collected: 03/22/22 11:45

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000996	U	0.000996		mg/Kg		03/25/22 14:01	03/26/22 04:27	1
Toluene	<0.00498	U	0.00498		mg/Kg		03/25/22 14:01	03/26/22 04:27	1
Ethylbenzene	<0.000996	U	0.000996		mg/Kg		03/25/22 14:01	03/26/22 04:27	1
m,p-Xylenes	<0.00199	U	0.00199		mg/Kg		03/25/22 14:01	03/26/22 04:27	1
o-Xylene	<0.000996	U	0.000996		mg/Kg		03/25/22 14:01	03/26/22 04:27	1
Xylenes, Total	<0.00199	U	0.00199		mg/Kg		03/25/22 14:01	03/26/22 04:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		56 - 150	03/25/22 14:01	03/26/22 04:27	1
4-Bromofluorobenzene (Surr)	115		68 - 152	03/25/22 14:01	03/26/22 04:27	1
Dibromofluoromethane (Surr)	105		53 - 142	03/25/22 14:01	03/26/22 04:27	1
Toluene-d8 (Surr)	109		70 - 130	03/25/22 14:01	03/26/22 04:27	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00199	U	0.00199		mg/Kg			03/28/22 16:34	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/28/22 12:15	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/28/22 16:32	03/29/22 00:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/28/22 16:32	03/29/22 00:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/28/22 16:32	03/29/22 00:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		65 - 130	03/28/22 16:32	03/29/22 00:01	1
o-Terphenyl (Surr)	105		65 - 130	03/28/22 16:32	03/29/22 00:01	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.2	U	10.2		mg/Kg		03/29/22 19:11	03/30/22 06:17	1

Client Sample ID: HA-27 (0-0.5)

Lab Sample ID: 820-3748-21

Date Collected: 03/22/22 11:50

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00101	U	0.00101		mg/Kg		03/25/22 14:01	03/26/22 04:47	1
Toluene	<0.00505	U	0.00505		mg/Kg		03/25/22 14:01	03/26/22 04:47	1
Ethylbenzene	<0.00101	U	0.00101		mg/Kg		03/25/22 14:01	03/26/22 04:47	1
m,p-Xylenes	<0.00202	U	0.00202		mg/Kg		03/25/22 14:01	03/26/22 04:47	1
o-Xylene	<0.00101	U	0.00101		mg/Kg		03/25/22 14:01	03/26/22 04:47	1
Xylenes, Total	<0.00202	U	0.00202		mg/Kg		03/25/22 14:01	03/26/22 04:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		56 - 150	03/25/22 14:01	03/26/22 04:47	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3748-1
SDG: AR227070

Client Sample ID: HA-27 (0-0.5)

Lab Sample ID: 820-3748-21

Date Collected: 03/22/22 11:50

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		68 - 152	03/25/22 14:01	03/26/22 04:47	1
Dibromofluoromethane (Surr)	104		53 - 142	03/25/22 14:01	03/26/22 04:47	1
Toluene-d8 (Surr)	108		70 - 130	03/25/22 14:01	03/26/22 04:47	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00202	U	0.00202		mg/Kg			03/28/22 16:34	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/28/22 12:15	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/28/22 16:32	03/29/22 00:20	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/28/22 16:32	03/29/22 00:20	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/28/22 16:32	03/29/22 00:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	100		65 - 130				03/28/22 16:32	03/29/22 00:20	1
o-Terphenyl (Surr)	111		65 - 130				03/28/22 16:32	03/29/22 00:20	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38.0		10.1		mg/Kg		03/29/22 19:11	03/30/22 06:53	1

Client Sample ID: HA-28 (0-0.5)

Lab Sample ID: 820-3748-23

Date Collected: 03/22/22 11:55

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000994	U	0.000994		mg/Kg		03/25/22 14:01	03/26/22 05:08	1
Toluene	<0.00497	U	0.00497		mg/Kg		03/25/22 14:01	03/26/22 05:08	1
Ethylbenzene	<0.000994	U	0.000994		mg/Kg		03/25/22 14:01	03/26/22 05:08	1
m,p-Xylenes	<0.00199	U	0.00199		mg/Kg		03/25/22 14:01	03/26/22 05:08	1
o-Xylene	<0.000994	U	0.000994		mg/Kg		03/25/22 14:01	03/26/22 05:08	1
Xylenes, Total	<0.00199	U	0.00199		mg/Kg		03/25/22 14:01	03/26/22 05:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		56 - 150				03/25/22 14:01	03/26/22 05:08	1
4-Bromofluorobenzene (Surr)	111		68 - 152				03/25/22 14:01	03/26/22 05:08	1
Dibromofluoromethane (Surr)	101		53 - 142				03/25/22 14:01	03/26/22 05:08	1
Toluene-d8 (Surr)	109		70 - 130				03/25/22 14:01	03/26/22 05:08	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00199	U	0.00199		mg/Kg			03/28/22 16:34	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3748-1
SDG: AR227070

Client Sample ID: HA-28 (0-0.5)

Lab Sample ID: 820-3748-23

Date Collected: 03/22/22 11:55

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			03/28/22 12:15	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		03/28/22 16:32	03/29/22 00:40	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		03/28/22 16:32	03/29/22 00:40	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		03/28/22 16:32	03/29/22 00:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	91		65 - 130				03/28/22 16:32	03/29/22 00:40	1
o-Terphenyl (Surr)	101		65 - 130				03/28/22 16:32	03/29/22 00:40	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.96	U	9.96		mg/Kg		03/29/22 19:11	03/30/22 07:28	1

Client Sample ID: HA-29 (0-0.5)

Lab Sample ID: 820-3748-25

Date Collected: 03/22/22 12:00

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00101	U	0.00101		mg/Kg		03/25/22 14:01	03/26/22 05:29	1
Toluene	<0.00503	U	0.00503		mg/Kg		03/25/22 14:01	03/26/22 05:29	1
Ethylbenzene	<0.00101	U	0.00101		mg/Kg		03/25/22 14:01	03/26/22 05:29	1
m,p-Xylenes	<0.00201	U	0.00201		mg/Kg		03/25/22 14:01	03/26/22 05:29	1
o-Xylene	<0.00101	U	0.00101		mg/Kg		03/25/22 14:01	03/26/22 05:29	1
Xylenes, Total	<0.00201	U	0.00201		mg/Kg		03/25/22 14:01	03/26/22 05:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		56 - 150				03/25/22 14:01	03/26/22 05:29	1
4-Bromofluorobenzene (Surr)	116		68 - 152				03/25/22 14:01	03/26/22 05:29	1
Dibromofluoromethane (Surr)	104		53 - 142				03/25/22 14:01	03/26/22 05:29	1
Toluene-d8 (Surr)	110		70 - 130				03/25/22 14:01	03/26/22 05:29	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00201	U	0.00201		mg/Kg			03/28/22 16:34	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/29/22 13:09	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/28/22 16:32	03/29/22 00:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/28/22 16:32	03/29/22 00:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/28/22 16:32	03/29/22 00:59	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3748-1
SDG: AR227070

Client Sample ID: HA-29 (0-0.5)

Lab Sample ID: 820-3748-25

Date Collected: 03/22/22 12:00

Matrix: Solid

Date Received: 03/24/22 13:43

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	100		65 - 130	03/28/22 16:32	03/29/22 00:59	1
o-Terphenyl (Surr)	111		65 - 130	03/28/22 16:32	03/29/22 00:59	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.90	U	9.90		mg/Kg		03/29/22 19:11	03/30/22 07:40	1

Client Sample ID: BG-1 (1.5-2)

Lab Sample ID: 820-3748-27

Date Collected: 03/22/22 12:07

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000994	U	0.000994		mg/Kg		03/25/22 14:01	03/26/22 05:50	1
Toluene	<0.00497	U	0.00497		mg/Kg		03/25/22 14:01	03/26/22 05:50	1
Ethylbenzene	<0.000994	U	0.000994		mg/Kg		03/25/22 14:01	03/26/22 05:50	1
m,p-Xylenes	<0.00199	U	0.00199		mg/Kg		03/25/22 14:01	03/26/22 05:50	1
o-Xylene	<0.000994	U	0.000994		mg/Kg		03/25/22 14:01	03/26/22 05:50	1
Xylenes, Total	<0.00199	U	0.00199		mg/Kg		03/25/22 14:01	03/26/22 05:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		56 - 150	03/25/22 14:01	03/26/22 05:50	1
4-Bromofluorobenzene (Surr)	113		68 - 152	03/25/22 14:01	03/26/22 05:50	1
Dibromofluoromethane (Surr)	105		53 - 142	03/25/22 14:01	03/26/22 05:50	1
Toluene-d8 (Surr)	110		70 - 130	03/25/22 14:01	03/26/22 05:50	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00199	U	0.00199		mg/Kg			03/28/22 16:34	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.1	U	49.1		mg/Kg			03/29/22 13:09	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.1	U	49.1		mg/Kg		03/28/22 16:32	03/29/22 01:18	1
Diesel Range Organics (Over C10-C28)	<49.1	U	49.1		mg/Kg		03/28/22 16:32	03/29/22 01:18	1
Oil Range Organics (Over C28-C36)	<49.1	U	49.1		mg/Kg		03/28/22 16:32	03/29/22 01:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		65 - 130	03/28/22 16:32	03/29/22 01:18	1
o-Terphenyl (Surr)	107		65 - 130	03/28/22 16:32	03/29/22 01:18	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.84	U	9.84		mg/Kg		03/29/22 19:11	03/30/22 07:52	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3748-1
SDG: AR227070

Client Sample ID: BG-2 (0-0.5)

Lab Sample ID: 820-3748-28

Date Collected: 03/22/22 12:10

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000996	U	0.000996		mg/Kg		03/25/22 14:01	03/26/22 06:11	1
Toluene	<0.00498	U	0.00498		mg/Kg		03/25/22 14:01	03/26/22 06:11	1
Ethylbenzene	<0.000996	U	0.000996		mg/Kg		03/25/22 14:01	03/26/22 06:11	1
m,p-Xylenes	<0.00199	U	0.00199		mg/Kg		03/25/22 14:01	03/26/22 06:11	1
o-Xylene	<0.000996	U	0.000996		mg/Kg		03/25/22 14:01	03/26/22 06:11	1
Xylenes, Total	<0.00199	U	0.00199		mg/Kg		03/25/22 14:01	03/26/22 06:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		56 - 150	03/25/22 14:01	03/26/22 06:11	1
4-Bromofluorobenzene (Surr)	120		68 - 152	03/25/22 14:01	03/26/22 06:11	1
Dibromofluoromethane (Surr)	104		53 - 142	03/25/22 14:01	03/26/22 06:11	1
Toluene-d8 (Surr)	109		70 - 130	03/25/22 14:01	03/26/22 06:11	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00199	U	0.00199		mg/Kg			03/28/22 16:43	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			03/29/22 13:09	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		03/28/22 16:32	03/29/22 01:38	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		03/28/22 16:32	03/29/22 01:38	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		03/28/22 16:32	03/29/22 01:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	90		65 - 130	03/28/22 16:32	03/29/22 01:38	1
o-Terphenyl (Surr)	98		65 - 130	03/28/22 16:32	03/29/22 01:38	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1		mg/Kg		03/29/22 19:11	03/30/22 08:04	1

Client Sample ID: BG-3 (0-0.5)

Lab Sample ID: 820-3748-30

Date Collected: 03/22/22 12:15

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00101	U	0.00101		mg/Kg		03/25/22 14:01	03/26/22 06:32	1
Toluene	<0.00505	U	0.00505		mg/Kg		03/25/22 14:01	03/26/22 06:32	1
Ethylbenzene	<0.00101	U	0.00101		mg/Kg		03/25/22 14:01	03/26/22 06:32	1
m,p-Xylenes	<0.00202	U	0.00202		mg/Kg		03/25/22 14:01	03/26/22 06:32	1
o-Xylene	<0.00101	U	0.00101		mg/Kg		03/25/22 14:01	03/26/22 06:32	1
Xylenes, Total	<0.00202	U	0.00202		mg/Kg		03/25/22 14:01	03/26/22 06:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		56 - 150	03/25/22 14:01	03/26/22 06:32	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3748-1
SDG: AR227070

Client Sample ID: BG-3 (0-0.5)

Lab Sample ID: 820-3748-30

Date Collected: 03/22/22 12:15

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		68 - 152	03/25/22 14:01	03/26/22 06:32	1
Dibromofluoromethane (Surr)	105		53 - 142	03/25/22 14:01	03/26/22 06:32	1
Toluene-d8 (Surr)	110		70 - 130	03/25/22 14:01	03/26/22 06:32	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00202	U	0.00202		mg/Kg			03/28/22 16:43	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/29/22 13:09	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/28/22 16:32	03/29/22 02:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/28/22 16:32	03/29/22 02:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/28/22 16:32	03/29/22 02:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		65 - 130				03/28/22 16:32	03/29/22 02:17	1
o-Terphenyl (Surr)	106		65 - 130				03/28/22 16:32	03/29/22 02:17	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.6		10.2		mg/Kg		03/29/22 19:11	03/30/22 08:16	1

Eurofins Lubbock

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3748-1
SDG: AR227070

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (56-150)	BFB (68-152)	DBFM (53-142)	TOL (70-130)
820-3748-1	HA-17 (0-0.5)	99	104	98	99
820-3748-3	HA-18 (0-0.5)	100	104	99	98
820-3748-5	HA-19 (0-0.5)	98	105	98	98
820-3748-7	HA-20 (0-0.5)	96	105	97	99
820-3748-9	HA-21 (0-0.5)	104	113	105	110
820-3748-11	HA-22 (0-0.5)	101	111	101	110
820-3748-13	HA-23 (0-0.5)	102	116	103	111
820-3748-15	HA-24 (0-0.5)	101	120	104	114
820-3748-16	HA-24 (0.5-1)	98	107	103	100
820-3748-16 MS	HA-24 (0.5-1)	92	108	106	102
820-3748-17	HA-25 (0-0.5)	101	112	106	111
820-3748-19	HA-26 (0-0.5)	102	115	105	109
820-3748-21	HA-27 (0-0.5)	103	111	104	108
820-3748-23	HA-28 (0-0.5)	100	111	101	109
820-3748-25	HA-29 (0-0.5)	102	116	104	110
820-3748-27	BG-1 (1.5-2)	101	113	105	110
820-3748-28	BG-2 (0-0.5)	103	120	104	109
820-3748-30	BG-3 (0-0.5)	101	120	105	110
860-23286-B-6-B MS	Matrix Spike	93	100	103	100
860-23286-B-6-C MSD	Matrix Spike Duplicate	92	100	104	99
880-12750-C-11-A MS - DL	Matrix Spike	96	108	100	109
LCS 860-46374/3	Lab Control Sample	90	101	102	101
LCS 860-46464/3	Lab Control Sample	99	113	101	109
LCS 860-47276/3	Lab Control Sample	89	100	104	95
LCSD 860-46374/4	Lab Control Sample Dup	92	102	104	101
LCSD 860-46464/4	Lab Control Sample Dup	100	112	99	108
LCSD 860-47276/4	Lab Control Sample Dup	92	101	105	97
MB 860-46374/8	Method Blank	95	102	97	101
MB 860-46464/8	Method Blank	99	111	102	110
MB 860-47276/8	Method Blank	94	104	101	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (65-130)	OTPH1 (65-130)
820-3748-1	HA-17 (0-0.5)	98	107
820-3748-1 MS	HA-17 (0-0.5)	106	96
820-3748-1 MSD	HA-17 (0-0.5)	106	98
820-3748-3	HA-18 (0-0.5)	99	108
820-3748-5	HA-19 (0-0.5)	91	99
820-3748-7	HA-20 (0-0.5)	88	97
820-3748-9	HA-21 (0-0.5)	95	105

Eurofins Lubbock

Surrogate Summary

Client: Terracon Consulting Eng & Scientists

Job ID: 820-3748-1

Project/Site: JR HORZ

SDG: AR227070

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)
Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (65-130)	OTPH1 (65-130)
820-3748-11	HA-22 (0-0.5)	88	96
820-3748-13	HA-23 (0-0.5)	97	106
820-3748-15	HA-24 (0-0.5)	99	110
820-3748-16	HA-24 (0.5-1)	88	105
820-3748-17	HA-25 (0-0.5)	94	104
820-3748-19	HA-26 (0-0.5)	96	105
820-3748-21	HA-27 (0-0.5)	100	111
820-3748-23	HA-28 (0-0.5)	91	101
820-3748-25	HA-29 (0-0.5)	100	111
820-3748-27	BG-1 (1.5-2)	97	107
820-3748-28	BG-2 (0-0.5)	90	98
820-3748-30	BG-3 (0-0.5)	97	106
LCS 860-46691/2-A	Lab Control Sample	116	109
LCS 860-47737/2-A	Lab Control Sample	102	98
LCSD 860-46691/3-A	Lab Control Sample Dup	110	104
LCSD 860-47737/3-A	Lab Control Sample Dup	105	104
MB 860-46691/1-A	Method Blank	91	101
MB 860-47737/1-A	Method Blank	93	111

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3748-1
SDG: AR227070

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-46374/8

Matrix: Solid

Analysis Batch: 46374

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg			03/25/22 14:48	1
Toluene	<0.00500	U	0.00500		mg/Kg			03/25/22 14:48	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg			03/25/22 14:48	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg			03/25/22 14:48	1
o-Xylene	<0.00100	U	0.00100		mg/Kg			03/25/22 14:48	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg			03/25/22 14:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		56 - 150		03/25/22 14:48	1
4-Bromofluorobenzene (Surr)	102		68 - 152		03/25/22 14:48	1
Dibromofluoromethane (Surr)	97		53 - 142		03/25/22 14:48	1
Toluene-d8 (Surr)	101		70 - 130		03/25/22 14:48	1

Lab Sample ID: LCS 860-46374/3

Matrix: Solid

Analysis Batch: 46374

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.04479		mg/Kg		90	66 - 142
Toluene	0.0500	0.04350		mg/Kg		87	74 - 130
Ethylbenzene	0.0500	0.04696		mg/Kg		94	80 - 130
m,p-Xylenes	0.0500	0.04702		mg/Kg		94	78 - 130
o-Xylene	0.0500	0.04736		mg/Kg		95	79 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		56 - 150
4-Bromofluorobenzene (Surr)	101		68 - 152
Dibromofluoromethane (Surr)	102		53 - 142
Toluene-d8 (Surr)	101		70 - 130

Lab Sample ID: LCSD 860-46374/4

Matrix: Solid

Analysis Batch: 46374

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0500	0.04086		mg/Kg		82	66 - 142	9	25
Toluene	0.0500	0.04012		mg/Kg		80	74 - 130	8	25
Ethylbenzene	0.0500	0.04336		mg/Kg		87	80 - 130	8	25
m,p-Xylenes	0.0500	0.04291		mg/Kg		86	78 - 130	9	25
o-Xylene	0.0500	0.04413		mg/Kg		88	79 - 130	7	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		56 - 150
4-Bromofluorobenzene (Surr)	102		68 - 152
Dibromofluoromethane (Surr)	104		53 - 142
Toluene-d8 (Surr)	101		70 - 130

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3748-1
SDG: AR227070

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-23286-B-6-B MS

Matrix: Solid

Analysis Batch: 46374

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 46428

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.000969	U	0.0380	0.03558		mg/Kg		94	71 - 119
Toluene	<0.00484	U	0.0380	0.03460		mg/Kg		91	74 - 122
Ethylbenzene	<0.000969	U	0.0380	0.03683		mg/Kg		97	80 - 123
m,p-Xylenes	<0.00194	U	0.0380	0.03661		mg/Kg		96	78 - 127
o-Xylene	<0.000969	U	0.0380	0.03720		mg/Kg		98	79 - 125

Surrogate	MS %Recovery	MS Qualifier	MS Limits
1,2-Dichloroethane-d4 (Surr)	93		56 - 150
4-Bromofluorobenzene (Surr)	100		68 - 152
Dibromofluoromethane (Surr)	103		53 - 142
Toluene-d8 (Surr)	100		70 - 130

Lab Sample ID: 860-23286-B-6-C MSD

Matrix: Solid

Analysis Batch: 46374

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 46428

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.000969	U	0.0375	0.03545		mg/Kg		95	71 - 119	0	25
Toluene	<0.00484	U	0.0375	0.03436		mg/Kg		92	74 - 122	1	25
Ethylbenzene	<0.000969	U	0.0375	0.03678		mg/Kg		98	80 - 123	0	25
m,p-Xylenes	<0.00194	U	0.0375	0.03649		mg/Kg		97	78 - 127	0	25
o-Xylene	<0.000969	U	0.0375	0.03663		mg/Kg		98	79 - 125	2	25

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
1,2-Dichloroethane-d4 (Surr)	92		56 - 150
4-Bromofluorobenzene (Surr)	100		68 - 152
Dibromofluoromethane (Surr)	104		53 - 142
Toluene-d8 (Surr)	99		70 - 130

Lab Sample ID: MB 860-46464/8

Matrix: Solid

Analysis Batch: 46464

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg			03/26/22 02:00	1
Toluene	<0.00500	U	0.00500		mg/Kg			03/26/22 02:00	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg			03/26/22 02:00	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg			03/26/22 02:00	1
o-Xylene	<0.00100	U	0.00100		mg/Kg			03/26/22 02:00	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg			03/26/22 02:00	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		56 - 150		03/26/22 02:00	1
4-Bromofluorobenzene (Surr)	111		68 - 152		03/26/22 02:00	1
Dibromofluoromethane (Surr)	102		53 - 142		03/26/22 02:00	1
Toluene-d8 (Surr)	110		70 - 130		03/26/22 02:00	1

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3748-1
SDG: AR227070

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-46464/3

Matrix: Solid

Analysis Batch: 46464

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.05450		mg/Kg		109	66 - 142
Toluene	0.0500	0.04431		mg/Kg		89	74 - 130
Ethylbenzene	0.0500	0.04548		mg/Kg		91	80 - 130
m,p-Xylenes	0.0500	0.04341		mg/Kg		87	78 - 130
o-Xylene	0.0500	0.04482		mg/Kg		90	79 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		56 - 150
4-Bromofluorobenzene (Surr)	113		68 - 152
Dibromofluoromethane (Surr)	101		53 - 142
Toluene-d8 (Surr)	109		70 - 130

Lab Sample ID: LCSD 860-46464/4

Matrix: Solid

Analysis Batch: 46464

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0500	0.05464		mg/Kg		109	66 - 142	0	25
Toluene	0.0500	0.04436		mg/Kg		89	74 - 130	0	25
Ethylbenzene	0.0500	0.04528		mg/Kg		91	80 - 130	0	25
m,p-Xylenes	0.0500	0.04348		mg/Kg		87	78 - 130	0	25
o-Xylene	0.0500	0.04495		mg/Kg		90	79 - 130	0	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		56 - 150
4-Bromofluorobenzene (Surr)	112		68 - 152
Dibromofluoromethane (Surr)	99		53 - 142
Toluene-d8 (Surr)	108		70 - 130

Lab Sample ID: MB 860-47276/8

Matrix: Solid

Analysis Batch: 47276

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg			04/01/22 14:35	1
Toluene	<0.00500	U	0.00500		mg/Kg			04/01/22 14:35	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg			04/01/22 14:35	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg			04/01/22 14:35	1
o-Xylene	<0.00100	U	0.00100		mg/Kg			04/01/22 14:35	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg			04/01/22 14:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		56 - 150		04/01/22 14:35	1
4-Bromofluorobenzene (Surr)	104		68 - 152		04/01/22 14:35	1
Dibromofluoromethane (Surr)	101		53 - 142		04/01/22 14:35	1
Toluene-d8 (Surr)	99		70 - 130		04/01/22 14:35	1

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3748-1
SDG: AR227070

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-47276/3

Matrix: Solid

Analysis Batch: 47276

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.04667		mg/Kg		93	66 - 142
Toluene	0.0500	0.04260		mg/Kg		85	74 - 130
Ethylbenzene	0.0500	0.04571		mg/Kg		91	80 - 130
m,p-Xylenes	0.0500	0.04549		mg/Kg		91	78 - 130
o-Xylene	0.0500	0.04553		mg/Kg		91	79 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		56 - 150
4-Bromofluorobenzene (Surr)	100		68 - 152
Dibromofluoromethane (Surr)	104		53 - 142
Toluene-d8 (Surr)	95		70 - 130

Lab Sample ID: LCSD 860-47276/4

Matrix: Solid

Analysis Batch: 47276

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0500	0.04839		mg/Kg		97	66 - 142	4	25
Toluene	0.0500	0.04410		mg/Kg		88	74 - 130	3	25
Ethylbenzene	0.0500	0.04699		mg/Kg		94	80 - 130	3	25
m,p-Xylenes	0.0500	0.04679		mg/Kg		94	78 - 130	3	25
o-Xylene	0.0500	0.04725		mg/Kg		94	79 - 130	4	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		56 - 150
4-Bromofluorobenzene (Surr)	101		68 - 152
Dibromofluoromethane (Surr)	105		53 - 142
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: 820-3748-16 MS

Matrix: Solid

Analysis Batch: 47276

Client Sample ID: HA-24 (0.5-1)

Prep Type: Total/NA

Prep Batch: 47295

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00101	U	0.0495	0.03783		mg/Kg		76	71 - 119
Toluene	<0.00505	U	0.0495	0.03717		mg/Kg		75	74 - 122
Ethylbenzene	<0.00101	U	0.0495	0.04081		mg/Kg		82	80 - 123
m,p-Xylenes	<0.00202	U	0.0495	0.04037		mg/Kg		82	78 - 127
o-Xylene	<0.00101	U	0.0495	0.04333		mg/Kg		88	79 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		56 - 150
4-Bromofluorobenzene (Surr)	108		68 - 152
Dibromofluoromethane (Surr)	106		53 - 142
Toluene-d8 (Surr)	102		70 - 130

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3748-1
SDG: AR227070

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Lab Sample ID: 880-12750-C-11-A MS

Matrix: Solid

Analysis Batch: 46464

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 46128

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene - DL	<0.0194	U	0.968	1.058		mg/Kg		109	71 - 119
Toluene - DL	<0.0968	U	0.968	0.8957		mg/Kg		93	74 - 122
Ethylbenzene - DL	0.0285		0.968	0.9155		mg/Kg		92	80 - 123
m,p-Xylenes - DL	0.102		0.968	0.9599		mg/Kg		89	78 - 127
o-Xylene - DL	0.0599		0.968	0.9513		mg/Kg		92	79 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr) - DL	96		56 - 150
4-Bromofluorobenzene (Surr) - DL	108		68 - 152
Dibromofluoromethane (Surr) - DL	100		53 - 142
Toluene-d8 (Surr) - DL	109		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 860-46691/1-A

Matrix: Solid

Analysis Batch: 46616

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46691

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/28/22 16:32	03/28/22 19:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/28/22 16:32	03/28/22 19:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/28/22 16:32	03/28/22 19:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	91		65 - 130	03/28/22 16:32	03/28/22 19:48	1
o-Terphenyl (Surr)	101		65 - 130	03/28/22 16:32	03/28/22 19:48	1

Lab Sample ID: LCS 860-46691/2-A

Matrix: Solid

Analysis Batch: 46616

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 46691

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1101		mg/Kg		110	70 - 135
Diesel Range Organics (Over C10-C28)	997	1063		mg/Kg		107	70 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	116		65 - 130
o-Terphenyl (Surr)	109		65 - 130

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3748-1
SDG: AR227070

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 860-46691/3-A

Matrix: Solid

Analysis Batch: 46616

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 46691

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1009		mg/Kg		101	70 - 135	9	35
Diesel Range Organics (Over C10-C28)	997	988.7		mg/Kg		99	70 - 135	7	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane (Surr)	110		65 - 130						
o-Terphenyl (Surr)	104		65 - 130						

Lab Sample ID: 820-3748-1 MS

Matrix: Solid

Analysis Batch: 46616

Client Sample ID: HA-17 (0-0.5)

Prep Type: Total/NA

Prep Batch: 46691

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	1000	1006		mg/Kg		100	70 - 135		
Diesel Range Organics (Over C10-C28)	<49.8	U	1000	946.7		mg/Kg		95	70 - 135		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane (Surr)	106		65 - 130								
o-Terphenyl (Surr)	96		65 - 130								

Lab Sample ID: 820-3748-1 MSD

Matrix: Solid

Analysis Batch: 46616

Client Sample ID: HA-17 (0-0.5)

Prep Type: Total/NA

Prep Batch: 46691

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	1020	999.7		mg/Kg		98	70 - 135	1	35
Diesel Range Organics (Over C10-C28)	<49.8	U	1010	930.9		mg/Kg		92	70 - 135	2	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	106		65 - 130								
o-Terphenyl (Surr)	98		65 - 130								

Lab Sample ID: MB 860-47737/1-A

Matrix: Solid

Analysis Batch: 47782

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47737

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/05/22 20:10	04/06/22 22:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/05/22 20:10	04/06/22 22:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/05/22 20:10	04/06/22 22:42	1

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3748-1
SDG: AR227070

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 860-47737/1-A

Matrix: Solid

Analysis Batch: 47782

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47737

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	93		65 - 130	04/05/22 20:10	04/06/22 22:42	1
o-Terphenyl (Surr)	111		65 - 130	04/05/22 20:10	04/06/22 22:42	1

Lab Sample ID: LCS 860-47737/2-A

Matrix: Solid

Analysis Batch: 47782

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47737

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1010	1025		mg/Kg		102	70 - 135
Diesel Range Organics (Over C10-C28)	1000	908.6		mg/Kg		91	70 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	102		65 - 130
o-Terphenyl (Surr)	98		65 - 130

Lab Sample ID: LCSD 860-47737/3-A

Matrix: Solid

Analysis Batch: 47782

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 47737

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1010	1052		mg/Kg		104	70 - 135	3	35
Diesel Range Organics (Over C10-C28)	1000	932.3		mg/Kg		93	70 - 135	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	105		65 - 130
o-Terphenyl (Surr)	104		65 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-46872/1-A

Matrix: Solid

Analysis Batch: 46754

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46872

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg		03/29/22 19:11	03/30/22 04:30	1

Lab Sample ID: LCS 860-46872/2-A

Matrix: Solid

Analysis Batch: 46754

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 46872

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	95.12		mg/Kg		95	80 - 120

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3748-1
SDG: AR227070

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-46872/3-A

Matrix: Solid

Analysis Batch: 46754

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 46872

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	96.13		mg/Kg		96	80 - 120	1	20

Lab Sample ID: 820-3748-7 MS

Matrix: Solid

Analysis Batch: 46754

Client Sample ID: HA-20 (0-0.5)

Prep Type: Total/NA

Prep Batch: 46872

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	28.9		102	132.6		mg/Kg		102	80 - 120		

Lab Sample ID: 820-3748-7 MSD

Matrix: Solid

Analysis Batch: 46754

Client Sample ID: HA-20 (0-0.5)

Prep Type: Total/NA

Prep Batch: 46872

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	28.9		101	132.6		mg/Kg		103	80 - 120	0	20

Lab Sample ID: 820-3748-21 MS

Matrix: Solid

Analysis Batch: 46754

Client Sample ID: HA-27 (0-0.5)

Prep Type: Total/NA

Prep Batch: 46872

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	38.0		100	143.0		mg/Kg		105	80 - 120		

Lab Sample ID: 820-3748-21 MSD

Matrix: Solid

Analysis Batch: 46754

Client Sample ID: HA-27 (0-0.5)

Prep Type: Total/NA

Prep Batch: 46872

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	38.0		100	142.8		mg/Kg		105	80 - 120	0	20

Lab Sample ID: MB 860-47950/1-A

Matrix: Solid

Analysis Batch: 47952

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47950

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg		04/07/22 09:55	04/07/22 12:45	1

Lab Sample ID: LCS 860-47950/2-A

Matrix: Solid

Analysis Batch: 47952

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47950

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	93.52		mg/Kg		94	80 - 120		

Lab Sample ID: LCSD 860-47950/3-A

Matrix: Solid

Analysis Batch: 47952

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 47950

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	99.21		mg/Kg		99	80 - 120	6	20

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3748-1
SDG: AR227070

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 820-3748-16 MS

Matrix: Solid

Analysis Batch: 47952

Client Sample ID: HA-24 (0.5-1)

Prep Type: Total/NA

Prep Batch: 47950

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	941		101	1034	4	mg/Kg		91	80 - 120

Lab Sample ID: 820-3748-16 MSD

Matrix: Solid

Analysis Batch: 47952

Client Sample ID: HA-24 (0.5-1)

Prep Type: Total/NA

Prep Batch: 47950

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	941		101	1036	4	mg/Kg		93	80 - 120	0	20

Lab Sample ID: MB 860-47952/3

Matrix: Solid

Analysis Batch: 47952

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.00	U	1.00		mg/Kg			04/07/22 12:34	1

Lab Sample ID: LLCS 860-47952/5

Matrix: Solid

Analysis Batch: 47952

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.500	0.5482	J	mg/Kg		110	

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3748-1
SDG: AR227070

GC/MS VOA

Prep Batch: 46128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12750-C-11-A MS - DL	Matrix Spike	Total/NA	Solid	5035	

Analysis Batch: 46374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3748-1	HA-17 (0-0.5)	Total/NA	Solid	8260C	46450
820-3748-3	HA-18 (0-0.5)	Total/NA	Solid	8260C	46450
820-3748-5	HA-19 (0-0.5)	Total/NA	Solid	8260C	46450
820-3748-7	HA-20 (0-0.5)	Total/NA	Solid	8260C	46450
MB 860-46374/8	Method Blank	Total/NA	Solid	8260C	
LCS 860-46374/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-46374/4	Lab Control Sample Dup	Total/NA	Solid	8260C	
860-23286-B-6-B MS	Matrix Spike	Total/NA	Solid	8260C	46428
860-23286-B-6-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8260C	46428

Prep Batch: 46428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-23286-B-6-B MS	Matrix Spike	Total/NA	Solid	5035	
860-23286-B-6-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 46450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3748-1	HA-17 (0-0.5)	Total/NA	Solid	5035	
820-3748-3	HA-18 (0-0.5)	Total/NA	Solid	5035	
820-3748-5	HA-19 (0-0.5)	Total/NA	Solid	5035	
820-3748-7	HA-20 (0-0.5)	Total/NA	Solid	5035	
820-3748-9	HA-21 (0-0.5)	Total/NA	Solid	5035	
820-3748-11	HA-22 (0-0.5)	Total/NA	Solid	5035	
820-3748-13	HA-23 (0-0.5)	Total/NA	Solid	5035	
820-3748-15	HA-24 (0-0.5)	Total/NA	Solid	5035	
820-3748-17	HA-25 (0-0.5)	Total/NA	Solid	5035	
820-3748-19	HA-26 (0-0.5)	Total/NA	Solid	5035	
820-3748-21	HA-27 (0-0.5)	Total/NA	Solid	5035	
820-3748-23	HA-28 (0-0.5)	Total/NA	Solid	5035	
820-3748-25	HA-29 (0-0.5)	Total/NA	Solid	5035	
820-3748-27	BG-1 (1.5-2)	Total/NA	Solid	5035	
820-3748-28	BG-2 (0-0.5)	Total/NA	Solid	5035	
820-3748-30	BG-3 (0-0.5)	Total/NA	Solid	5035	

Analysis Batch: 46464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3748-9	HA-21 (0-0.5)	Total/NA	Solid	8260C	46450
820-3748-11	HA-22 (0-0.5)	Total/NA	Solid	8260C	46450
820-3748-13	HA-23 (0-0.5)	Total/NA	Solid	8260C	46450
820-3748-15	HA-24 (0-0.5)	Total/NA	Solid	8260C	46450
820-3748-17	HA-25 (0-0.5)	Total/NA	Solid	8260C	46450
820-3748-19	HA-26 (0-0.5)	Total/NA	Solid	8260C	46450
820-3748-21	HA-27 (0-0.5)	Total/NA	Solid	8260C	46450
820-3748-23	HA-28 (0-0.5)	Total/NA	Solid	8260C	46450
820-3748-25	HA-29 (0-0.5)	Total/NA	Solid	8260C	46450
820-3748-27	BG-1 (1.5-2)	Total/NA	Solid	8260C	46450
820-3748-28	BG-2 (0-0.5)	Total/NA	Solid	8260C	46450

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3748-1
SDG: AR227070

GC/MS VOA (Continued)

Analysis Batch: 46464 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3748-30	BG-3 (0-0.5)	Total/NA	Solid	8260C	46450
MB 860-46464/8	Method Blank	Total/NA	Solid	8260C	
LCS 860-46464/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-46464/4	Lab Control Sample Dup	Total/NA	Solid	8260C	
880-12750-C-11-A MS - DL	Matrix Spike	Total/NA	Solid	8260C	46128

Analysis Batch: 46693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3748-1	HA-17 (0-0.5)	Total/NA	Solid	Total BTEX	
820-3748-3	HA-18 (0-0.5)	Total/NA	Solid	Total BTEX	
820-3748-5	HA-19 (0-0.5)	Total/NA	Solid	Total BTEX	
820-3748-7	HA-20 (0-0.5)	Total/NA	Solid	Total BTEX	
820-3748-9	HA-21 (0-0.5)	Total/NA	Solid	Total BTEX	
820-3748-11	HA-22 (0-0.5)	Total/NA	Solid	Total BTEX	
820-3748-13	HA-23 (0-0.5)	Total/NA	Solid	Total BTEX	
820-3748-15	HA-24 (0-0.5)	Total/NA	Solid	Total BTEX	
820-3748-17	HA-25 (0-0.5)	Total/NA	Solid	Total BTEX	
820-3748-19	HA-26 (0-0.5)	Total/NA	Solid	Total BTEX	
820-3748-21	HA-27 (0-0.5)	Total/NA	Solid	Total BTEX	
820-3748-23	HA-28 (0-0.5)	Total/NA	Solid	Total BTEX	
820-3748-25	HA-29 (0-0.5)	Total/NA	Solid	Total BTEX	
820-3748-27	BG-1 (1.5-2)	Total/NA	Solid	Total BTEX	

Analysis Batch: 46699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3748-28	BG-2 (0-0.5)	Total/NA	Solid	Total BTEX	
820-3748-30	BG-3 (0-0.5)	Total/NA	Solid	Total BTEX	

Analysis Batch: 47276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3748-16	HA-24 (0.5-1)	Total/NA	Solid	8260C	47295
MB 860-47276/8	Method Blank	Total/NA	Solid	8260C	
LCS 860-47276/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-47276/4	Lab Control Sample Dup	Total/NA	Solid	8260C	
820-3748-16 MS	HA-24 (0.5-1)	Total/NA	Solid	8260C	47295

Prep Batch: 47295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3748-16	HA-24 (0.5-1)	Total/NA	Solid	5035	
820-3748-16 MS	HA-24 (0.5-1)	Total/NA	Solid	5035	

Analysis Batch: 47520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3748-16	HA-24 (0.5-1)	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 46616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3748-1	HA-17 (0-0.5)	Total/NA	Solid	8015B NM	46691
820-3748-3	HA-18 (0-0.5)	Total/NA	Solid	8015B NM	46691

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3748-1
SDG: AR227070

GC Semi VOA (Continued)

Analysis Batch: 46616 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3748-5	HA-19 (0-0.5)	Total/NA	Solid	8015B NM	46691
820-3748-7	HA-20 (0-0.5)	Total/NA	Solid	8015B NM	46691
820-3748-9	HA-21 (0-0.5)	Total/NA	Solid	8015B NM	46691
820-3748-11	HA-22 (0-0.5)	Total/NA	Solid	8015B NM	46691
820-3748-13	HA-23 (0-0.5)	Total/NA	Solid	8015B NM	46691
820-3748-15	HA-24 (0-0.5)	Total/NA	Solid	8015B NM	46691
820-3748-17	HA-25 (0-0.5)	Total/NA	Solid	8015B NM	46691
820-3748-19	HA-26 (0-0.5)	Total/NA	Solid	8015B NM	46691
820-3748-21	HA-27 (0-0.5)	Total/NA	Solid	8015B NM	46691
820-3748-23	HA-28 (0-0.5)	Total/NA	Solid	8015B NM	46691
820-3748-25	HA-29 (0-0.5)	Total/NA	Solid	8015B NM	46691
820-3748-27	BG-1 (1.5-2)	Total/NA	Solid	8015B NM	46691
820-3748-28	BG-2 (0-0.5)	Total/NA	Solid	8015B NM	46691
820-3748-30	BG-3 (0-0.5)	Total/NA	Solid	8015B NM	46691
MB 860-46691/1-A	Method Blank	Total/NA	Solid	8015B NM	46691
LCS 860-46691/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	46691
LCSD 860-46691/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	46691
820-3748-1 MS	HA-17 (0-0.5)	Total/NA	Solid	8015B NM	46691
820-3748-1 MSD	HA-17 (0-0.5)	Total/NA	Solid	8015B NM	46691

Analysis Batch: 46621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3748-1	HA-17 (0-0.5)	Total/NA	Solid	8015 NM	
820-3748-3	HA-18 (0-0.5)	Total/NA	Solid	8015 NM	
820-3748-5	HA-19 (0-0.5)	Total/NA	Solid	8015 NM	
820-3748-7	HA-20 (0-0.5)	Total/NA	Solid	8015 NM	
820-3748-9	HA-21 (0-0.5)	Total/NA	Solid	8015 NM	
820-3748-11	HA-22 (0-0.5)	Total/NA	Solid	8015 NM	
820-3748-13	HA-23 (0-0.5)	Total/NA	Solid	8015 NM	
820-3748-15	HA-24 (0-0.5)	Total/NA	Solid	8015 NM	
820-3748-17	HA-25 (0-0.5)	Total/NA	Solid	8015 NM	
820-3748-19	HA-26 (0-0.5)	Total/NA	Solid	8015 NM	
820-3748-21	HA-27 (0-0.5)	Total/NA	Solid	8015 NM	
820-3748-23	HA-28 (0-0.5)	Total/NA	Solid	8015 NM	
820-3748-25	HA-29 (0-0.5)	Total/NA	Solid	8015 NM	
820-3748-27	BG-1 (1.5-2)	Total/NA	Solid	8015 NM	
820-3748-28	BG-2 (0-0.5)	Total/NA	Solid	8015 NM	
820-3748-30	BG-3 (0-0.5)	Total/NA	Solid	8015 NM	

Prep Batch: 46691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3748-1	HA-17 (0-0.5)	Total/NA	Solid	8015NM Prep	
820-3748-3	HA-18 (0-0.5)	Total/NA	Solid	8015NM Prep	
820-3748-5	HA-19 (0-0.5)	Total/NA	Solid	8015NM Prep	
820-3748-7	HA-20 (0-0.5)	Total/NA	Solid	8015NM Prep	
820-3748-9	HA-21 (0-0.5)	Total/NA	Solid	8015NM Prep	
820-3748-11	HA-22 (0-0.5)	Total/NA	Solid	8015NM Prep	
820-3748-13	HA-23 (0-0.5)	Total/NA	Solid	8015NM Prep	
820-3748-15	HA-24 (0-0.5)	Total/NA	Solid	8015NM Prep	
820-3748-17	HA-25 (0-0.5)	Total/NA	Solid	8015NM Prep	
820-3748-19	HA-26 (0-0.5)	Total/NA	Solid	8015NM Prep	

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3748-1
SDG: AR227070

GC Semi VOA (Continued)

Prep Batch: 46691 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3748-21	HA-27 (0-0.5)	Total/NA	Solid	8015NM Prep	
820-3748-23	HA-28 (0-0.5)	Total/NA	Solid	8015NM Prep	
820-3748-25	HA-29 (0-0.5)	Total/NA	Solid	8015NM Prep	
820-3748-27	BG-1 (1.5-2)	Total/NA	Solid	8015NM Prep	
820-3748-28	BG-2 (0-0.5)	Total/NA	Solid	8015NM Prep	
820-3748-30	BG-3 (0-0.5)	Total/NA	Solid	8015NM Prep	
MB 860-46691/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-46691/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-46691/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
820-3748-1 MS	HA-17 (0-0.5)	Total/NA	Solid	8015NM Prep	
820-3748-1 MSD	HA-17 (0-0.5)	Total/NA	Solid	8015NM Prep	

Prep Batch: 47737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3748-16	HA-24 (0.5-1)	Total/NA	Solid	8015NM Prep	
MB 860-47737/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-47737/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-47737/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 47782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3748-16	HA-24 (0.5-1)	Total/NA	Solid	8015B NM	47737
MB 860-47737/1-A	Method Blank	Total/NA	Solid	8015B NM	47737
LCS 860-47737/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	47737
LCSD 860-47737/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	47737

Analysis Batch: 47915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3748-16	HA-24 (0.5-1)	Total/NA	Solid	8015 NM	

HPLC/IC

Analysis Batch: 46754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3748-1	HA-17 (0-0.5)	Total/NA	Solid	300.0	46872
820-3748-3	HA-18 (0-0.5)	Total/NA	Solid	300.0	46872
820-3748-5	HA-19 (0-0.5)	Total/NA	Solid	300.0	46872
820-3748-7	HA-20 (0-0.5)	Total/NA	Solid	300.0	46872
820-3748-13	HA-23 (0-0.5)	Total/NA	Solid	300.0	46872
820-3748-15	HA-24 (0-0.5)	Total/NA	Solid	300.0	46872
820-3748-17	HA-25 (0-0.5)	Total/NA	Solid	300.0	46872
820-3748-19	HA-26 (0-0.5)	Total/NA	Solid	300.0	46872
820-3748-21	HA-27 (0-0.5)	Total/NA	Solid	300.0	46872
820-3748-23	HA-28 (0-0.5)	Total/NA	Solid	300.0	46872
820-3748-25	HA-29 (0-0.5)	Total/NA	Solid	300.0	46872
820-3748-27	BG-1 (1.5-2)	Total/NA	Solid	300.0	46872
820-3748-28	BG-2 (0-0.5)	Total/NA	Solid	300.0	46872
820-3748-30	BG-3 (0-0.5)	Total/NA	Solid	300.0	46872
MB 860-46872/1-A	Method Blank	Total/NA	Solid	300.0	46872
LCS 860-46872/2-A	Lab Control Sample	Total/NA	Solid	300.0	46872
LCSD 860-46872/3-A	Lab Control Sample Dup	Total/NA	Solid	300.0	46872

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3748-1
SDG: AR227070

HPLC/IC (Continued)

Analysis Batch: 46754 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3748-7 MS	HA-20 (0-0.5)	Total/NA	Solid	300.0	46872
820-3748-7 MSD	HA-20 (0-0.5)	Total/NA	Solid	300.0	46872
820-3748-21 MS	HA-27 (0-0.5)	Total/NA	Solid	300.0	46872
820-3748-21 MSD	HA-27 (0-0.5)	Total/NA	Solid	300.0	46872

Prep Batch: 46872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3748-1	HA-17 (0-0.5)	Total/NA	Solid	300_Prep	
820-3748-3	HA-18 (0-0.5)	Total/NA	Solid	300_Prep	
820-3748-5	HA-19 (0-0.5)	Total/NA	Solid	300_Prep	
820-3748-7	HA-20 (0-0.5)	Total/NA	Solid	300_Prep	
820-3748-9	HA-21 (0-0.5)	Total/NA	Solid	300_Prep	
820-3748-11	HA-22 (0-0.5)	Total/NA	Solid	300_Prep	
820-3748-13	HA-23 (0-0.5)	Total/NA	Solid	300_Prep	
820-3748-15	HA-24 (0-0.5)	Total/NA	Solid	300_Prep	
820-3748-17	HA-25 (0-0.5)	Total/NA	Solid	300_Prep	
820-3748-19	HA-26 (0-0.5)	Total/NA	Solid	300_Prep	
820-3748-21	HA-27 (0-0.5)	Total/NA	Solid	300_Prep	
820-3748-23	HA-28 (0-0.5)	Total/NA	Solid	300_Prep	
820-3748-25	HA-29 (0-0.5)	Total/NA	Solid	300_Prep	
820-3748-27	BG-1 (1.5-2)	Total/NA	Solid	300_Prep	
820-3748-28	BG-2 (0-0.5)	Total/NA	Solid	300_Prep	
820-3748-30	BG-3 (0-0.5)	Total/NA	Solid	300_Prep	
MB 860-46872/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-46872/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-46872/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
820-3748-7 MS	HA-20 (0-0.5)	Total/NA	Solid	300_Prep	
820-3748-7 MSD	HA-20 (0-0.5)	Total/NA	Solid	300_Prep	
820-3748-21 MS	HA-27 (0-0.5)	Total/NA	Solid	300_Prep	
820-3748-21 MSD	HA-27 (0-0.5)	Total/NA	Solid	300_Prep	

Analysis Batch: 46894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3748-9	HA-21 (0-0.5)	Total/NA	Solid	300.0	46872
820-3748-11	HA-22 (0-0.5)	Total/NA	Solid	300.0	46872

Prep Batch: 47950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3748-16	HA-24 (0.5-1)	Total/NA	Solid	300_Prep	
MB 860-47950/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-47950/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-47950/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
820-3748-16 MS	HA-24 (0.5-1)	Total/NA	Solid	300_Prep	
820-3748-16 MSD	HA-24 (0.5-1)	Total/NA	Solid	300_Prep	

Analysis Batch: 47952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3748-16	HA-24 (0.5-1)	Total/NA	Solid	300.0	47950
MB 860-47950/1-A	Method Blank	Total/NA	Solid	300.0	47950
MB 860-47952/3	Method Blank	Total/NA	Solid	300.0	
LCS 860-47950/2-A	Lab Control Sample	Total/NA	Solid	300.0	47950

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3748-1
SDG: AR227070

HPLC/IC (Continued)

Analysis Batch: 47952 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 860-47950/3-A	Lab Control Sample Dup	Total/NA	Solid	300.0	47950
LLCS 860-47952/5	Lab Control Sample	Total/NA	Solid	300.0	
820-3748-16 MS	HA-24 (0.5-1)	Total/NA	Solid	300.0	47950
820-3748-16 MSD	HA-24 (0.5-1)	Total/NA	Solid	300.0	47950

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3748-1
SDG: AR227070

Client Sample ID: HA-17 (0-0.5)

Date Collected: 03/22/22 11:00

Date Received: 03/24/22 13:43

Lab Sample ID: 820-3748-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	46450	03/25/22 14:01	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	46374	03/25/22 19:55	KLV	XEN STF
Total/NA	Analysis	Total BTEX		1			46693	03/28/22 16:34	CSP	XEN STF
Total/NA	Analysis	8015 NM		1			46621	03/28/22 12:15	DD	XEN STF
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	46691	03/28/22 16:32	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			46616	03/28/22 20:07	T1S	XEN STF
Total/NA	Prep	300_Prep			4.95 g	50 mL	46872	03/29/22 19:11	ANP	XEN STF
Total/NA	Analysis	300.0		1			46754	03/30/22 03:07	ANP	XEN STF

Client Sample ID: HA-18 (0-0.5)

Date Collected: 03/22/22 11:05

Date Received: 03/24/22 13:43

Lab Sample ID: 820-3748-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	46450	03/25/22 14:01	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	46374	03/25/22 20:15	KLV	XEN STF
Total/NA	Analysis	Total BTEX		1			46693	03/28/22 16:34	CSP	XEN STF
Total/NA	Analysis	8015 NM		1			46621	03/28/22 12:15	DD	XEN STF
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	46691	03/28/22 16:32	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			46616	03/28/22 21:05	T1S	XEN STF
Total/NA	Prep	300_Prep			4.97 g	50 mL	46872	03/29/22 19:11	ANP	XEN STF
Total/NA	Analysis	300.0		1			46754	03/30/22 03:19	ANP	XEN STF

Client Sample ID: HA-19 (0-0.5)

Date Collected: 03/22/22 11:10

Date Received: 03/24/22 13:43

Lab Sample ID: 820-3748-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	46450	03/25/22 14:01	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	46374	03/25/22 20:35	KLV	XEN STF
Total/NA	Analysis	Total BTEX		1			46693	03/28/22 16:34	CSP	XEN STF
Total/NA	Analysis	8015 NM		1			46621	03/28/22 12:15	DD	XEN STF
Total/NA	Prep	8015NM Prep			9.85 g	10 mL	46691	03/28/22 16:32	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			46616	03/28/22 21:25	T1S	XEN STF
Total/NA	Prep	300_Prep			4.93 g	50 mL	46872	03/29/22 19:11	ANP	XEN STF
Total/NA	Analysis	300.0		1			46754	03/30/22 03:31	ANP	XEN STF

Client Sample ID: HA-20 (0-0.5)

Date Collected: 03/22/22 11:15

Date Received: 03/24/22 13:43

Lab Sample ID: 820-3748-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	46450	03/25/22 14:01	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	46374	03/25/22 20:56	KLV	XEN STF
Total/NA	Analysis	Total BTEX		1			46693	03/28/22 16:34	CSP	XEN STF

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3748-1
SDG: AR227070

Client Sample ID: HA-20 (0-0.5)

Lab Sample ID: 820-3748-7

Date Collected: 03/22/22 11:15

Matrix: Solid

Date Received: 03/24/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			46621	03/28/22 12:15	DD	XEN STF
Total/NA	Prep	8015NM Prep			10.11 g	10 mL	46691	03/28/22 16:32	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			46616	03/28/22 21:44	T1S	XEN STF
Total/NA	Prep	300_Prep			4.96 g	50 mL	46872	03/29/22 19:11	ANP	XEN STF
Total/NA	Analysis	300.0		1			46754	03/30/22 03:42	ANP	XEN STF

Client Sample ID: HA-21 (0-0.5)

Lab Sample ID: 820-3748-9

Date Collected: 03/22/22 11:20

Matrix: Solid

Date Received: 03/24/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	46450	03/25/22 14:01	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	46464	03/26/22 02:42	CSP	XEN STF
Total/NA	Analysis	Total BTEX		1			46693	03/28/22 16:34	CSP	XEN STF
Total/NA	Analysis	8015 NM		1			46621	03/28/22 12:15	DD	XEN STF
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	46691	03/28/22 16:32	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			46616	03/28/22 22:04	T1S	XEN STF
Total/NA	Prep	300_Prep			4.97 g	50 mL	46872	03/29/22 19:11	ANP	XEN STF
Total/NA	Analysis	300.0		1			46894	03/31/22 13:56	A1S	XEN STF

Client Sample ID: HA-22 (0-0.5)

Lab Sample ID: 820-3748-11

Date Collected: 03/22/22 11:25

Matrix: Solid

Date Received: 03/24/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	46450	03/25/22 14:01	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	46464	03/26/22 03:03	CSP	XEN STF
Total/NA	Analysis	Total BTEX		1			46693	03/28/22 16:34	CSP	XEN STF
Total/NA	Analysis	8015 NM		1			46621	03/28/22 12:15	DD	XEN STF
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	46691	03/28/22 16:32	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			46616	03/28/22 22:42	T1S	XEN STF
Total/NA	Prep	300_Prep			4.92 g	50 mL	46872	03/29/22 19:11	ANP	XEN STF
Total/NA	Analysis	300.0		1			46894	03/31/22 14:08	A1S	XEN STF

Client Sample ID: HA-23 (0-0.5)

Lab Sample ID: 820-3748-13

Date Collected: 03/22/22 11:30

Matrix: Solid

Date Received: 03/24/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	46450	03/25/22 14:01	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	46464	03/26/22 03:24	CSP	XEN STF
Total/NA	Analysis	Total BTEX		1			46693	03/28/22 16:34	CSP	XEN STF
Total/NA	Analysis	8015 NM		1			46621	03/28/22 12:15	DD	XEN STF
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	46691	03/28/22 16:32	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			46616	03/28/22 23:02	T1S	XEN STF

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3748-1
SDG: AR227070

Client Sample ID: HA-23 (0-0.5)

Lab Sample ID: 820-3748-13

Date Collected: 03/22/22 11:30

Matrix: Solid

Date Received: 03/24/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	300_Prep			4.93 g	50 mL	46872	03/29/22 19:11	ANP	XEN STF
Total/NA	Analysis	300.0		1			46754	03/30/22 05:42	ANP	XEN STF

Client Sample ID: HA-24 (0-0.5)

Lab Sample ID: 820-3748-15

Date Collected: 03/22/22 11:35

Matrix: Solid

Date Received: 03/24/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	46450	03/25/22 14:01	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	46464	03/26/22 03:45	CSP	XEN STF
Total/NA	Analysis	Total BTEX		1			46693	03/28/22 16:34	CSP	XEN STF
Total/NA	Analysis	8015 NM		1			46621	03/28/22 12:15	DD	XEN STF
Total/NA	Prep	8015NM Prep			10.14 g	10 mL	46691	03/28/22 16:32	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			46616	03/28/22 23:22	T1S	XEN STF
Total/NA	Prep	300_Prep			4.94 g	50 mL	46872	03/29/22 19:11	ANP	XEN STF
Total/NA	Analysis	300.0		1			46754	03/30/22 05:53	ANP	XEN STF

Client Sample ID: HA-24 (0.5-1)

Lab Sample ID: 820-3748-16

Date Collected: 03/22/22 11:37

Matrix: Solid

Date Received: 03/24/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	47295	04/01/22 12:20	KLV	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	47276	04/01/22 14:56	KLV	XEN STF
Total/NA	Analysis	Total BTEX		1			47520	04/04/22 14:29	MC	XEN STF
Total/NA	Analysis	8015 NM		1			47915	04/07/22 07:56	MC	XEN STF
Total/NA	Prep	8015NM Prep			9.77 g	10 mL	47737	04/05/22 20:10	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			47782	04/06/22 23:22	T1S	XEN STF
Total/NA	Prep	300_Prep			5.05 g	50 mL	47950	04/07/22 09:55	ANP	XEN STF
Total/NA	Analysis	300.0		1			47952	04/07/22 13:42	ANP	XEN STF

Client Sample ID: HA-25 (0-0.5)

Lab Sample ID: 820-3748-17

Date Collected: 03/22/22 11:40

Matrix: Solid

Date Received: 03/24/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	46450	03/25/22 14:01	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	46464	03/26/22 04:06	CSP	XEN STF
Total/NA	Analysis	Total BTEX		1			46693	03/28/22 16:34	CSP	XEN STF
Total/NA	Analysis	8015 NM		1			46621	03/28/22 12:15	DD	XEN STF
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46691	03/28/22 16:32	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			46616	03/28/22 23:41	T1S	XEN STF
Total/NA	Prep	300_Prep			4.98 g	50 mL	46872	03/29/22 19:11	ANP	XEN STF
Total/NA	Analysis	300.0		1			46754	03/30/22 06:05	ANP	XEN STF

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3748-1
SDG: AR227070

Client Sample ID: HA-26 (0-0.5)

Lab Sample ID: 820-3748-19

Date Collected: 03/22/22 11:45

Matrix: Solid

Date Received: 03/24/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	46450	03/25/22 14:01	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	46464	03/26/22 04:27	CSP	XEN STF
Total/NA	Analysis	Total BTEX		1			46693	03/28/22 16:34	CSP	XEN STF
Total/NA	Analysis	8015 NM		1			46621	03/28/22 12:15	DD	XEN STF
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46691	03/28/22 16:32	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			46616	03/29/22 00:01	T1S	XEN STF
Total/NA	Prep	300_Prep			4.92 g	50 mL	46872	03/29/22 19:11	ANP	XEN STF
Total/NA	Analysis	300.0		1			46754	03/30/22 06:17	ANP	XEN STF

Client Sample ID: HA-27 (0-0.5)

Lab Sample ID: 820-3748-21

Date Collected: 03/22/22 11:50

Matrix: Solid

Date Received: 03/24/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	46450	03/25/22 14:01	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	46464	03/26/22 04:47	CSP	XEN STF
Total/NA	Analysis	Total BTEX		1			46693	03/28/22 16:34	CSP	XEN STF
Total/NA	Analysis	8015 NM		1			46621	03/28/22 12:15	DD	XEN STF
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	46691	03/28/22 16:32	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			46616	03/29/22 00:20	T1S	XEN STF
Total/NA	Prep	300_Prep			4.93 g	50 mL	46872	03/29/22 19:11	ANP	XEN STF
Total/NA	Analysis	300.0		1			46754	03/30/22 06:53	ANP	XEN STF

Client Sample ID: HA-28 (0-0.5)

Lab Sample ID: 820-3748-23

Date Collected: 03/22/22 11:55

Matrix: Solid

Date Received: 03/24/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	46450	03/25/22 14:01	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	46464	03/26/22 05:08	CSP	XEN STF
Total/NA	Analysis	Total BTEX		1			46693	03/28/22 16:34	CSP	XEN STF
Total/NA	Analysis	8015 NM		1			46621	03/28/22 12:15	DD	XEN STF
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	46691	03/28/22 16:32	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			46616	03/29/22 00:40	T1S	XEN STF
Total/NA	Prep	300_Prep			5.02 g	50 mL	46872	03/29/22 19:11	ANP	XEN STF
Total/NA	Analysis	300.0		1			46754	03/30/22 07:28	ANP	XEN STF

Client Sample ID: HA-29 (0-0.5)

Lab Sample ID: 820-3748-25

Date Collected: 03/22/22 12:00

Matrix: Solid

Date Received: 03/24/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	46450	03/25/22 14:01	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	46464	03/26/22 05:29	CSP	XEN STF
Total/NA	Analysis	Total BTEX		1			46693	03/28/22 16:34	CSP	XEN STF

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3748-1
SDG: AR227070

Client Sample ID: HA-29 (0-0.5)

Lab Sample ID: 820-3748-25

Date Collected: 03/22/22 12:00

Matrix: Solid

Date Received: 03/24/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			46621	03/29/22 13:09	DD	XEN STF
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46691	03/28/22 16:32	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			46616	03/29/22 00:59	T1S	XEN STF
Total/NA	Prep	300_Prep			5.05 g	50 mL	46872	03/29/22 19:11	ANP	XEN STF
Total/NA	Analysis	300.0		1			46754	03/30/22 07:40	ANP	XEN STF

Client Sample ID: BG-1 (1.5-2)

Lab Sample ID: 820-3748-27

Date Collected: 03/22/22 12:07

Matrix: Solid

Date Received: 03/24/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	46450	03/25/22 14:01	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	46464	03/26/22 05:50	CSP	XEN STF
Total/NA	Analysis	Total BTEX		1			46693	03/28/22 16:34	CSP	XEN STF
Total/NA	Analysis	8015 NM		1			46621	03/29/22 13:09	DD	XEN STF
Total/NA	Prep	8015NM Prep			10.18 g	10 mL	46691	03/28/22 16:32	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			46616	03/29/22 01:18	T1S	XEN STF
Total/NA	Prep	300_Prep			5.08 g	50 mL	46872	03/29/22 19:11	ANP	XEN STF
Total/NA	Analysis	300.0		1			46754	03/30/22 07:52	ANP	XEN STF

Client Sample ID: BG-2 (0-0.5)

Lab Sample ID: 820-3748-28

Date Collected: 03/22/22 12:10

Matrix: Solid

Date Received: 03/24/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	46450	03/25/22 14:01	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	46464	03/26/22 06:11	CSP	XEN STF
Total/NA	Analysis	Total BTEX		1			46699	03/28/22 16:43	CSP	XEN STF
Total/NA	Analysis	8015 NM		1			46621	03/29/22 13:09	DD	XEN STF
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	46691	03/28/22 16:32	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			46616	03/29/22 01:38	T1S	XEN STF
Total/NA	Prep	300_Prep			4.97 g	50 mL	46872	03/29/22 19:11	ANP	XEN STF
Total/NA	Analysis	300.0		1			46754	03/30/22 08:04	ANP	XEN STF

Client Sample ID: BG-3 (0-0.5)

Lab Sample ID: 820-3748-30

Date Collected: 03/22/22 12:15

Matrix: Solid

Date Received: 03/24/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	46450	03/25/22 14:01	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	46464	03/26/22 06:32	CSP	XEN STF
Total/NA	Analysis	Total BTEX		1			46699	03/28/22 16:43	CSP	XEN STF
Total/NA	Analysis	8015 NM		1			46621	03/29/22 13:09	DD	XEN STF
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46691	03/28/22 16:32	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			46616	03/29/22 02:17	T1S	XEN STF

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3748-1
SDG: AR227070

Client Sample ID: BG-3 (0-0.5)
Date Collected: 03/22/22 12:15
Date Received: 03/24/22 13:43

Lab Sample ID: 820-3748-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	300_Prep			4.91 g	50 mL	46872	03/29/22 19:11	ANP	XEN STF
Total/NA	Analysis	300.0		1			46754	03/30/22 08:16	ANP	XEN STF

Laboratory References:
XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3748-1
SDG: AR227070

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-21-44	06-30-22
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Prep	Solid	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Prep	Solid	Oil Range Organics (Over C28-C36)
Total BTEX		Solid	Total BTEX

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3748-1
SDG: AR227070

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	XEN STF
Total BTEX	Total BTEX Calculation	TAL SOP	XEN STF
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
300.0	Anions, Ion Chromatography	MCAWW	XEN STF
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	MCAWW	XEN STF
5035	Closed System Purge and Trap	SW846	XEN STF
8015NM Prep	Microextraction	SW846	XEN STF

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3748-1
SDG: AR227070

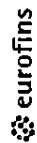
Lab Sample ID	Client Sample ID	Matrix	Collected	Received
820-3748-1	HA-17 (0-0.5)	Solid	03/22/22 11:00	03/24/22 13:43
820-3748-3	HA-18 (0-0.5)	Solid	03/22/22 11:05	03/24/22 13:43
820-3748-5	HA-19 (0-0.5)	Solid	03/22/22 11:10	03/24/22 13:43
820-3748-7	HA-20 (0-0.5)	Solid	03/22/22 11:15	03/24/22 13:43
820-3748-9	HA-21 (0-0.5)	Solid	03/22/22 11:20	03/24/22 13:43
820-3748-11	HA-22 (0-0.5)	Solid	03/22/22 11:25	03/24/22 13:43
820-3748-13	HA-23 (0-0.5)	Solid	03/22/22 11:30	03/24/22 13:43
820-3748-15	HA-24 (0-0.5)	Solid	03/22/22 11:35	03/24/22 13:43
820-3748-16	HA-24 (0.5-1)	Solid	03/22/22 11:37	03/24/22 13:43
820-3748-17	HA-25 (0-0.5)	Solid	03/22/22 11:40	03/24/22 13:43
820-3748-19	HA-26 (0-0.5)	Solid	03/22/22 11:45	03/24/22 13:43
820-3748-21	HA-27 (0-0.5)	Solid	03/22/22 11:50	03/24/22 13:43
820-3748-23	HA-28 (0-0.5)	Solid	03/22/22 11:55	03/24/22 13:43
820-3748-25	HA-29 (0-0.5)	Solid	03/22/22 12:00	03/24/22 13:43
820-3748-27	BG-1 (1.5-2)	Solid	03/22/22 12:07	03/24/22 13:43
820-3748-28	BG-2 (0-0.5)	Solid	03/22/22 12:10	03/24/22 13:43
820-3748-30	BG-3 (0-0.5)	Solid	03/22/22 12:15	03/24/22 13:43

CHAIN OF CUSTODY RECORD

Terracon										LAB USE ONLY		
Laboratory: Xenco Address: 6701 Aberdeen Lubbock, Texas 79424 Phone: _____ Contact: _____ SRS #: _____ Project Manager: J. Guesnier Sampler's Name: J. Guesnier Sampler's Signature: _____										ANALYSIS REQUESTED Chloride (EPA Method 300) ☒ TPH Extended 8015 ☒ BTEX (EPA Method 8260B) ☒ Hold ☒		DUE DATE: _____ TEMP OF COOLER WHEN RECEIVED (°C) -9.6/-9.4 Page 2 of 2
Project Number		Project Name		Identifying Marks of Sample(s)		No. Type of Containers		Lab Sample ID				
Matrix	Date	Time	Grab	Comp	Start Depth	End Depth	4 Oz Glass	2 Oz Glass	250 ml Poly			
S	3/22/2022	11:50	X		0	0.5'	X					
S	3/22/2022	11:52	X		1.5'	2'	X					
S	3/22/2022	11:55	X		0	0.5'	X					
S	3/22/2022	11:57	X		1.5'	2'	X					
S	3/22/2022	12:00	X		0	0.5'	X					
S	3/22/2022	12:02	X		1.5'	2'	X					
S	3/22/2022	12:07	X		1.5'	2'	X					
S	3/22/2022	12:10	X		0	0.5'	X					
S	3/22/2022	12:12	X		1.5'	2'	X					
S	3/22/2022	12:15	X		0	0.5'	X					
S	3/22/2022	12:27	X		1.5'	2'	X					
TURNAROUND TIME												
Relinquished by (Signature) _____ Date: 3-24-22 Time: 13:43 Relinquished by (Signature) _____ Date: _____ Time: _____ Relinquished by (Signature) _____ Date: _____ Time: _____ Relinquished by (Signature) _____ Date: _____ Time: _____												
TRRP Laboratory Review Checklist ☒ Normal ☐ 24-Hour Rush ☐ 48-Hour Rush Received by (Signature) _____ Date: 3-24-22 Time: 13:43 Received by (Signature) _____ Date: _____ Time: _____ Received by (Signature) _____ Date: _____ Time: _____ Received by (Signature) _____ Date: _____ Time: _____												
NOTES: Client: _____ e-mail results to: joseph.guesnier@terracon.com erin.loyd@terracon.com												
Matrix: WW Waterwater Vials: 40 ml vial W. Water A/G: Ambient Glass 1L S. Soil 250 ml - Glass wide mouth P/G: Plastic or other C. Chemical tube SI. Sludge												
Lubbock Office ■ 5827 50th Street, Suite 1 ■ Lubbock, Texas 79424 ■ 806-300-0140 Responsive ■ Resourceful ■ Reliable												

Eurofins Lubbock
6701 Aberdeen Ave. Suite 8
Lubbock, TX 79424
Phone: 806-794-1296

Chain of Custody Record

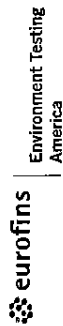


Environment Testing
America

Client Information (Sub Contract Lab)		Lab PM: Kramer Jessica	Carrier Tracking No(s): 820-3435-1	COC No: 820-3435-1
Client Contact: Shipping/Receiving		Phone: Jessica.kramer@eurofinset.com	State of Origin: Texas	Page: Page 1 of 2
Company: Eurofins Environment Testing South Central		Accreditations Required (See note): NELAP Texas	Job #: 820-3748-1	Preservation Codes:
Address: 4145 Greenbriar Dr		Due Date Requested: 3/30/2022	Analysis Requested:	
City: Stafford		TAT Requested (days):	Total BTEX	
State, Zip: TX, 77477		PO #:	8260C/503SFP_Calc (MOD) BTEX	
Phone: 281-240-4200(Tel)		WO #:	300_ORGFM_28D/300_Prep Chloride	
Email:		Project #:	8015MOD_Calc	
Project Name: JR HORZ		SSOW#:	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	
Site:		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)
Matrix (Newwater, Seawater, Overwater, BT/TA/SLUR, ANAL)		Special Instructions/Note:		
Sample Identification - Client ID (Lab ID)				
HA-17 (0-0.5) (820-3748-1)	3/22/22	11:00	Central	Solid
HA-18 (0-0.5) (820-3748-3)	3/22/22	11:05	Central	Solid
HA-19 (0-0.5) (820-3748-5)	3/22/22	11:10	Central	Solid
HA-20 (0-0.5) (820-3748-7)	3/22/22	11:15	Central	Solid
HA-21 (0-0.5) (820-3748-9)	3/22/22	11:20	Central	Solid
HA-22 (0-0.5) (820-3748-11)	3/22/22	11:25	Central	Solid
HA-23 (0-0.5) (820-3748-13)	3/22/22	11:30	Central	Solid
HA-24 (0-0.5) (820-3748-15)	3/22/22	11:35	Central	Solid
HA-25 (0-0.5) (820-3748-17)	3/22/22	11:40	Central	Solid
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to Eurofins Environment Testing South Central, LLC.				
Possible Hazard Identification				
Unconfirmed				
Deliverable Requested: I II III IV Other (specify)		Primary Deliverable Rank: 2		
Empty Kit Relinquished by:		Date:		
Relinquished by: <i>Andrew Puffer</i>		Date/Time: 3/24/22 17:00		
Relinquished by: FedEx		Date/Time:		
Relinquished by:		Date/Time:		
Custody Seals Intact: ☐ Yes ☒ No		Custody Seal No.		
Temp: 41.2		IR ID: HOU-223		
C/F: -0.1		Corrected Temp: 41.1		
Ver: 06/08/2021				

Eurofins Lubbock
6701 Aberdeen Ave. Suite 8
Lubbock, TX 79424
Phone: 806-794-1296

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler	Lab PM: Jessica Kramer	Carrier Tracking No(s):	COC No: 820-3435-2								
Shipping/Receiving		Phone:	E-Mail: jessica.kramer@eurofinset.com	State of Origin: Texas	Page: Page 2 of 2								
Company: Eurofins Environment Testing South Center		Accreditations Required (See note): NELAP Texas											
Address: 4145 Greenbriar Dr		Due Date Requested: 3/30/2022											
City: Stafford		TAT Requested (days):											
State, Zip: TX, 77477		PO #:											
Phone: 281-240-4200(Tel)		WO #:											
Email:		Project #: 82000340											
Project Name: JR HORZ		SSOW#:											
Site:													
Sample Identification	Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (Wet, Solid, Overstabilized, BT-Tissue, A&H)	8015MOD_NW/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/300_Prep Chloride	8260C/8035FP_Calc (MOD) BTEX	Total_BTEX	Analysis Requested	Preservation Codes:	Special Instructions/Note.
HA-26 (0-0.5) (820-3748-19)		3/22/22	11:45 Central		Solid	X	X	X	X	X		A HCL B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Anichlor H Ascorbic Acid I Ice J DI Water K EDTA L EDA Other	
HA-27 (0-0.5) (820-3748-21)		3/22/22	11:50 Central		Solid	X	X	X	X	X		M Hexane N None O AsNaO2 P Na2OAS Q Na2SO3 R Na2SO3 S H2SO4 T TSP Dodecalhydrate U Acetone V MCAA W pH 4-5 Z other (specify)	
HA-28 (0-0.5) (820-3748-23)		3/22/22	11:55 Central		Solid	X	X	X	X	X			
HA-29 (0-0.5) (820-3748-25)		3/22/22	12:00 Central		Solid	X	X	X	X	X			
BG-1 (1.5-2) (820-3748-27)		3/22/22	12:07 Central		Solid	X	X	X	X	X			
BG-2 (0-0.5) (820-3748-28)		3/22/22	12:10 Central		Solid	X	X	X	X	X			
BG-3 (0-0.5) (820-3748-30)		3/22/22	12:15 Central		Solid	X	X	X	X	X			

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification

Unconfirmed
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2
Special Instructions/QC Requirements:

Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____

Relinquished by: *Andrew Puygler* Date/Time: 3/24/22 17:00 Company: _____
Relinquished by: *FedEx* Date/Time: _____ Company: _____
Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: _____
Custody Seal No. _____

Temp: 41.2 IR ID HOU-223
C/F: -0.1
Corrected Temp: 41.1
Var: 06/08/2021

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 820-3748-1

SDG Number: AR227070

Login Number: 3748**List Number: 1****Creator: Ruggles, Ashley****List Source: Eurofins Lubbock**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 820-3748-1

SDG Number: AR227070

Login Number: 3748

List Number: 2

Creator: Milone, Jeancarlo

List Source: Eurofins Houston

List Creation: 03/25/22 12:11 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	



Environment Testing America

ANALYTICAL REPORT

Eurofins Lubbock
6701 Aberdeen Ave.
Suite 8
Lubbock, TX 79424
Tel: (806)794-1296

Laboratory Job ID: 820-3753-1

Laboratory Sample Delivery Group: AR227020

Client Project/Site: JR HORZ

For:

Terracon Consulting Eng & Scientists
5847 50th St
Lubbock, Texas 79424

Attn: Joseph Guesnier

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

Authorized for release by:
3/31/2022 5:48:27 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Laboratory Job ID: 820-3753-1
SDG: AR227020

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Coliform MCLs

· Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

Warranties, Terms, and Conditions

· Analyses for Field Parameters are performed by EQC field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification #02015

VL = field staff performs tests under NJ State certification #06005

WG = field staff performs tests under NJ State certification #PA001

H = field staff performs tests under NJ NELAP certification #PA093, PA NELAP certification # 46-

05499

· Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.

· The report shall not be reproduced, except in full, without the written consent of the laboratory

· All samples are collected as "grab" samples unless otherwise identified.

· Reported results related only to the samples as tested. EQC is not responsible for sample integrity unless sampling has been performed by a member of our staff.

· EQC is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.

· Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.

· The following personnel or their deputies have approved the results of the tests performed by EQC: Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).



Jessica Kramer
Project Manager
3/31/2022 5:48:27 PM

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Laboratory Job ID: 820-3753-1
SDG: AR227020

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	17
QC Sample Results	19
QC Association Summary	29
Lab Chronicle	34
Certification Summary	41
Method Summary	42
Sample Summary	43
Chain of Custody	44
Receipt Checklists	50

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3753-1
SDG: AR227020

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3753-1
SDG: AR227020

Job ID: 820-3753-1**Laboratory: Eurofins Lubbock****Narrative****Job Narrative
820-3753-1****Receipt**

The samples were received on 3/24/2022 1:43 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -9.4°C

GC/MS VOA

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: (880-12750-C-11-A) and (880-12750-C-11-A MS). Elevated reporting limits (RLs) are provided.

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: (880-12781-A-1-B) and (880-12781-A-1-B MS). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was diluted due to it being sandblast: (860-23302-C-1-A). Elevated reporting limits (RL) are provided.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-46424 and analytical batch 860-46572 were outside control limits. Sample matrix interference is suspected.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-46872 and analytical batch 860-46754 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3753-1
SDG: AR227020

Client Sample ID: B-1 (3-4)

Lab Sample ID: 820-3753-1

Date Collected: 03/23/22 11:25

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg		03/28/22 09:21	03/28/22 17:57	1
Toluene	<0.00502	U	0.00502		mg/Kg		03/28/22 09:21	03/28/22 17:57	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg		03/28/22 09:21	03/28/22 17:57	1
m,p-Xylenes	<0.00201	U	0.00201		mg/Kg		03/28/22 09:21	03/28/22 17:57	1
o-Xylene	<0.00100	U	0.00100		mg/Kg		03/28/22 09:21	03/28/22 17:57	1
Xylenes, Total	<0.00201	U	0.00201		mg/Kg		03/28/22 09:21	03/28/22 17:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		56 - 150	03/28/22 09:21	03/28/22 17:57	1
4-Bromofluorobenzene (Surr)	109		68 - 152	03/28/22 09:21	03/28/22 17:57	1
Dibromofluoromethane (Surr)	109		53 - 142	03/28/22 09:21	03/28/22 17:57	1
Toluene-d8 (Surr)	107		70 - 130	03/28/22 09:21	03/28/22 17:57	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00201	U	0.00201		mg/Kg			03/29/22 16:02	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/29/22 13:09	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/28/22 16:32	03/29/22 23:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/28/22 16:32	03/29/22 23:57	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/28/22 16:32	03/29/22 23:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	109		65 - 130	03/28/22 16:32	03/29/22 23:57	1
o-Terphenyl (Surr)	125		65 - 130	03/28/22 16:32	03/29/22 23:57	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	888		9.88		mg/Kg		03/29/22 19:11	03/30/22 08:27	1

Client Sample ID: B-1 (5-6)

Lab Sample ID: 820-3753-2

Date Collected: 03/23/22 11:27

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	331		9.82		mg/Kg		03/29/22 19:11	03/30/22 08:39	1

Client Sample ID: B-1 (6-7)

Lab Sample ID: 820-3753-3

Date Collected: 03/23/22 11:29

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.84	U	9.84		mg/Kg		03/29/22 19:11	03/30/22 09:51	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3753-1
SDG: AR227020

Client Sample ID: B-1 (7-8)

Lab Sample ID: 820-3753-4

Date Collected: 03/23/22 11:31

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1		mg/Kg		03/29/22 19:11	03/30/22 10:03	1

Client Sample ID: B-1 (8-9)

Lab Sample ID: 820-3753-5

Date Collected: 03/23/22 11:33

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1420		10.1		mg/Kg		03/29/22 19:11	03/30/22 10:14	1

Client Sample ID: B-1 (9-10)

Lab Sample ID: 820-3753-6

Date Collected: 03/23/22 11:35

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	78.6		10.0		mg/Kg		03/29/22 19:11	03/30/22 10:26	1

Client Sample ID: B-1 (10-11)

Lab Sample ID: 820-3753-7

Date Collected: 03/23/22 11:37

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000992	U	0.000992		mg/Kg		03/25/22 12:24	03/26/22 07:14	1
Toluene	<0.00496	U	0.00496		mg/Kg		03/25/22 12:24	03/26/22 07:14	1
Ethylbenzene	<0.000992	U	0.000992		mg/Kg		03/25/22 12:24	03/26/22 07:14	1
m,p-Xylenes	<0.00198	U	0.00198		mg/Kg		03/25/22 12:24	03/26/22 07:14	1
o-Xylene	<0.000992	U	0.000992		mg/Kg		03/25/22 12:24	03/26/22 07:14	1
Xylenes, Total	<0.00198	U	0.00198		mg/Kg		03/25/22 12:24	03/26/22 07:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		56 - 150	03/25/22 12:24	03/26/22 07:14	1
4-Bromofluorobenzene (Surr)	108		68 - 152	03/25/22 12:24	03/26/22 07:14	1
Dibromofluoromethane (Surr)	105		53 - 142	03/25/22 12:24	03/26/22 07:14	1
Toluene-d8 (Surr)	108		70 - 130	03/25/22 12:24	03/26/22 07:14	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00198	U	0.00198		mg/Kg			03/28/22 16:43	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.3	U	49.3		mg/Kg			03/29/22 13:09	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.3	U	49.3		mg/Kg		03/28/22 16:32	03/29/22 02:37	1
Diesel Range Organics (Over C10-C28)	<49.3	U	49.3		mg/Kg		03/28/22 16:32	03/29/22 02:37	1
Oil Range Organics (Over C28-C36)	<49.3	U	49.3		mg/Kg		03/28/22 16:32	03/29/22 02:37	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3753-1
SDG: AR227020

Client Sample ID: B-1 (10-11)

Lab Sample ID: 820-3753-7

Date Collected: 03/23/22 11:37

Matrix: Solid

Date Received: 03/24/22 13:43

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	87		65 - 130	03/28/22 16:32	03/29/22 02:37	1
o-Terphenyl (Surr)	97		65 - 130	03/28/22 16:32	03/29/22 02:37	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	121		10.1		mg/Kg		03/29/22 19:11	03/30/22 10:38	1

Method: 300.0 - Anions, Ion Chromatography

Client Sample ID: B-2 (3-4)

Lab Sample ID: 820-3753-8

Date Collected: 03/23/22 11:42

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00101	U	0.00101		mg/Kg		03/25/22 12:24	03/26/22 07:35	1
Toluene	<0.00505	U	0.00505		mg/Kg		03/25/22 12:24	03/26/22 07:35	1
Ethylbenzene	<0.00101	U	0.00101		mg/Kg		03/25/22 12:24	03/26/22 07:35	1
m,p-Xylenes	<0.00202	U	0.00202		mg/Kg		03/25/22 12:24	03/26/22 07:35	1
o-Xylene	<0.00101	U	0.00101		mg/Kg		03/25/22 12:24	03/26/22 07:35	1
Xylenes, Total	<0.00202	U	0.00202		mg/Kg		03/25/22 12:24	03/26/22 07:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		56 - 150	03/25/22 12:24	03/26/22 07:35	1
4-Bromofluorobenzene (Surr)	108		68 - 152	03/25/22 12:24	03/26/22 07:35	1
Dibromofluoromethane (Surr)	105		53 - 142	03/25/22 12:24	03/26/22 07:35	1
Toluene-d8 (Surr)	106		70 - 130	03/25/22 12:24	03/26/22 07:35	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00202	U	0.00202		mg/Kg			03/28/22 16:43	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/29/22 13:09	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/28/22 16:32	03/29/22 02:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/28/22 16:32	03/29/22 02:56	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/28/22 16:32	03/29/22 02:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		65 - 130	03/28/22 16:32	03/29/22 02:56	1
o-Terphenyl (Surr)	107		65 - 130	03/28/22 16:32	03/29/22 02:56	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54.0		10.2		mg/Kg		03/29/22 19:11	03/30/22 10:50	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3753-1
SDG: AR227020

Client Sample ID: B-2 (5-6)

Lab Sample ID: 820-3753-9

Date Collected: 03/23/22 11:44

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3290		10.0		mg/Kg		03/29/22 19:11	03/30/22 11:49	1

Client Sample ID: B-2 (6-7)

Lab Sample ID: 820-3753-10

Date Collected: 03/23/22 11:46

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.4		10.1		mg/Kg		03/29/22 19:11	03/31/22 14:20	1

Client Sample ID: B-2 (7-8)

Lab Sample ID: 820-3753-11

Date Collected: 03/23/22 11:48

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.6		10.2		mg/Kg		03/29/22 19:11	03/30/22 12:13	1

Client Sample ID: B-2 (8-9)

Lab Sample ID: 820-3753-12

Date Collected: 03/23/22 11:50

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42.5		10.2		mg/Kg		03/29/22 19:11	03/30/22 12:25	1

Client Sample ID: B-2 (9-10)

Lab Sample ID: 820-3753-13

Date Collected: 03/23/22 11:52

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	147		102		mg/Kg		03/29/22 19:11	03/30/22 12:37	10

Client Sample ID: B-2 (10-11)

Lab Sample ID: 820-3753-14

Date Collected: 03/23/22 11:54

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000996	U	0.000996		mg/Kg		03/25/22 12:24	03/26/22 07:56	1
Toluene	<0.00498	U	0.00498		mg/Kg		03/25/22 12:24	03/26/22 07:56	1
Ethylbenzene	<0.000996	U	0.000996		mg/Kg		03/25/22 12:24	03/26/22 07:56	1
m,p-Xylenes	<0.00199	U	0.00199		mg/Kg		03/25/22 12:24	03/26/22 07:56	1
o-Xylene	<0.000996	U	0.000996		mg/Kg		03/25/22 12:24	03/26/22 07:56	1
Xylenes, Total	<0.00199	U	0.00199		mg/Kg		03/25/22 12:24	03/26/22 07:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		56 - 150	03/25/22 12:24	03/26/22 07:56	1
4-Bromofluorobenzene (Surr)	109		68 - 152	03/25/22 12:24	03/26/22 07:56	1
Dibromofluoromethane (Surr)	105		53 - 142	03/25/22 12:24	03/26/22 07:56	1
Toluene-d8 (Surr)	108		70 - 130	03/25/22 12:24	03/26/22 07:56	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3753-1
SDG: AR227020

Client Sample ID: B-2 (10-11)

Lab Sample ID: 820-3753-14

Date Collected: 03/23/22 11:54

Matrix: Solid

Date Received: 03/24/22 13:43

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00199	U	0.00199		mg/Kg			03/28/22 16:43	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.4	U	49.4		mg/Kg			03/29/22 13:09	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.4	U	49.4		mg/Kg		03/28/22 16:32	03/29/22 03:15	1
Diesel Range Organics (Over C10-C28)	<49.4	U	49.4		mg/Kg		03/28/22 16:32	03/29/22 03:15	1
Oil Range Organics (Over C28-C36)	<49.4	U	49.4		mg/Kg		03/28/22 16:32	03/29/22 03:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	93		65 - 130				03/28/22 16:32	03/29/22 03:15	1
o-Terphenyl (Surr)	101		65 - 130				03/28/22 16:32	03/29/22 03:15	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	129		101		mg/Kg		03/29/22 19:11	03/30/22 12:49	10

Client Sample ID: B-3 (3-4)

Lab Sample ID: 820-3753-15

Date Collected: 03/23/22 12:00

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000998	U	0.000998		mg/Kg		03/25/22 12:24	03/26/22 08:17	1
Toluene	<0.00499	U	0.00499		mg/Kg		03/25/22 12:24	03/26/22 08:17	1
Ethylbenzene	<0.000998	U	0.000998		mg/Kg		03/25/22 12:24	03/26/22 08:17	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg		03/25/22 12:24	03/26/22 08:17	1
o-Xylene	<0.000998	U	0.000998		mg/Kg		03/25/22 12:24	03/26/22 08:17	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg		03/25/22 12:24	03/26/22 08:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		56 - 150				03/25/22 12:24	03/26/22 08:17	1
4-Bromofluorobenzene (Surr)	107		68 - 152				03/25/22 12:24	03/26/22 08:17	1
Dibromofluoromethane (Surr)	103		53 - 142				03/25/22 12:24	03/26/22 08:17	1
Toluene-d8 (Surr)	108		70 - 130				03/25/22 12:24	03/26/22 08:17	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200		mg/Kg			03/28/22 16:43	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/28/22 12:15	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/28/22 16:43	03/28/22 20:07	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3753-1
SDG: AR227020

Client Sample ID: B-3 (3-4)

Lab Sample ID: 820-3753-15

Date Collected: 03/23/22 12:00

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/28/22 16:43	03/28/22 20:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/28/22 16:43	03/28/22 20:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		65 - 130				03/28/22 16:43	03/28/22 20:07	1
o-Terphenyl (Surr)	116		65 - 130				03/28/22 16:43	03/28/22 20:07	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	125	F1	10.1		mg/Kg		03/29/22 19:11	03/30/22 13:00	1

Client Sample ID: B-3 (5-6)

Lab Sample ID: 820-3753-16

Date Collected: 03/23/22 12:02

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	589		100		mg/Kg		03/29/22 19:11	03/30/22 14:00	10

Client Sample ID: B-3 (6-7)

Lab Sample ID: 820-3753-17

Date Collected: 03/23/22 12:04

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	302		10.1		mg/Kg		03/29/22 19:11	03/30/22 14:12	1

Client Sample ID: B-3 (7-8)

Lab Sample ID: 820-3753-18

Date Collected: 03/23/22 12:06

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	347		10.2		mg/Kg		03/29/22 19:11	03/30/22 14:24	1

Client Sample ID: B-3 (8-9)

Lab Sample ID: 820-3753-19

Date Collected: 03/23/22 12:08

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	163		10.1		mg/Kg		03/29/22 19:11	03/30/22 14:36	1

Client Sample ID: B-3 (9-10)

Lab Sample ID: 820-3753-20

Date Collected: 03/23/22 12:10

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	155		9.84		mg/Kg		03/29/22 19:11	03/30/22 14:47	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3753-1
SDG: AR227020

Client Sample ID: B-3 (10-11)

Lab Sample ID: 820-3753-21

Date Collected: 03/23/22 12:12

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00101	U	0.00101		mg/Kg		03/25/22 12:24	03/26/22 08:38	1
Toluene	<0.00503	U	0.00503		mg/Kg		03/25/22 12:24	03/26/22 08:38	1
Ethylbenzene	<0.00101	U	0.00101		mg/Kg		03/25/22 12:24	03/26/22 08:38	1
m,p-Xylenes	<0.00201	U	0.00201		mg/Kg		03/25/22 12:24	03/26/22 08:38	1
o-Xylene	<0.00101	U	0.00101		mg/Kg		03/25/22 12:24	03/26/22 08:38	1
Xylenes, Total	<0.00201	U	0.00201		mg/Kg		03/25/22 12:24	03/26/22 08:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		56 - 150	03/25/22 12:24	03/26/22 08:38	1
4-Bromofluorobenzene (Surr)	109		68 - 152	03/25/22 12:24	03/26/22 08:38	1
Dibromofluoromethane (Surr)	102		53 - 142	03/25/22 12:24	03/26/22 08:38	1
Toluene-d8 (Surr)	107		70 - 130	03/25/22 12:24	03/26/22 08:38	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00201	U	0.00201		mg/Kg			03/28/22 16:43	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/28/22 12:15	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/28/22 16:43	03/28/22 21:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/28/22 16:43	03/28/22 21:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/28/22 16:43	03/28/22 21:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	100		65 - 130	03/28/22 16:43	03/28/22 21:05	1
o-Terphenyl (Surr)	113		65 - 130	03/28/22 16:43	03/28/22 21:05	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	118		9.82		mg/Kg		03/29/22 19:11	03/30/22 14:59	1

Client Sample ID: B-4 (3-4)

Lab Sample ID: 820-3753-22

Date Collected: 03/23/22 12:30

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000996	U	0.000996		mg/Kg		03/25/22 12:24	03/26/22 08:59	1
Toluene	<0.00498	U	0.00498		mg/Kg		03/25/22 12:24	03/26/22 08:59	1
Ethylbenzene	<0.000996	U	0.000996		mg/Kg		03/25/22 12:24	03/26/22 08:59	1
m,p-Xylenes	<0.00199	U	0.00199		mg/Kg		03/25/22 12:24	03/26/22 08:59	1
o-Xylene	<0.000996	U	0.000996		mg/Kg		03/25/22 12:24	03/26/22 08:59	1
Xylenes, Total	<0.00199	U	0.00199		mg/Kg		03/25/22 12:24	03/26/22 08:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		56 - 150	03/25/22 12:24	03/26/22 08:59	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3753-1
SDG: AR227020

Client Sample ID: B-4 (3-4)

Lab Sample ID: 820-3753-22

Date Collected: 03/23/22 12:30

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		68 - 152	03/25/22 12:24	03/26/22 08:59	1
Dibromofluoromethane (Surr)	103		53 - 142	03/25/22 12:24	03/26/22 08:59	1
Toluene-d8 (Surr)	107		70 - 130	03/25/22 12:24	03/26/22 08:59	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00199	U	0.00199		mg/Kg			03/28/22 16:43	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			03/28/22 12:15	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		03/28/22 16:43	03/28/22 21:25	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		03/28/22 16:43	03/28/22 21:25	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		03/28/22 16:43	03/28/22 21:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		65 - 130				03/28/22 16:43	03/28/22 21:25	1
o-Terphenyl (Surr)	110		65 - 130				03/28/22 16:43	03/28/22 21:25	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1990		9.96		mg/Kg		03/29/22 19:11	03/30/22 15:11	1

Client Sample ID: B-4 (5-6)

Lab Sample ID: 820-3753-23

Date Collected: 03/23/22 12:35

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17100		99.2		mg/Kg		03/29/22 19:11	03/30/22 15:23	10

Client Sample ID: B-4 (6-7)

Lab Sample ID: 820-3753-24

Date Collected: 03/23/22 12:40

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	149		9.88		mg/Kg		03/29/22 19:11	03/30/22 15:35	1

Client Sample ID: B-4 (7-8)

Lab Sample ID: 820-3753-25

Date Collected: 03/23/22 12:45

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg		03/25/22 12:24	03/28/22 15:21	1
Toluene	<0.00500	U	0.00500		mg/Kg		03/25/22 12:24	03/28/22 15:21	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3753-1
SDG: AR227020

Client Sample ID: B-4 (7-8)

Lab Sample ID: 820-3753-25

Date Collected: 03/23/22 12:45

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00100	U	0.00100		mg/Kg		03/25/22 12:24	03/28/22 15:21	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg		03/25/22 12:24	03/28/22 15:21	1
o-Xylene	<0.00100	U	0.00100		mg/Kg		03/25/22 12:24	03/28/22 15:21	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg		03/25/22 12:24	03/28/22 15:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		56 - 150	03/25/22 12:24	03/28/22 15:21	1
4-Bromofluorobenzene (Surr)	106		68 - 152	03/25/22 12:24	03/28/22 15:21	1
Dibromofluoromethane (Surr)	97		53 - 142	03/25/22 12:24	03/28/22 15:21	1
Toluene-d8 (Surr)	100		70 - 130	03/25/22 12:24	03/28/22 15:21	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200		mg/Kg			03/29/22 16:02	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			03/28/22 12:15	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		03/28/22 16:43	03/28/22 21:44	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		03/28/22 16:43	03/28/22 21:44	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		03/28/22 16:43	03/28/22 21:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	100		65 - 130				03/28/22 16:43	03/28/22 21:44	1
o-Terphenyl (Surr)	113		65 - 130				03/28/22 16:43	03/28/22 21:44	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	155		10.1		mg/Kg		03/30/22 19:18	03/31/22 00:30	1

Client Sample ID: B-5 (3-4)

Lab Sample ID: 820-3753-26

Date Collected: 03/23/22 12:50

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg		03/25/22 12:24	03/28/22 15:47	1
Toluene	<0.00501	U	0.00501		mg/Kg		03/25/22 12:24	03/28/22 15:47	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg		03/25/22 12:24	03/28/22 15:47	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg		03/25/22 12:24	03/28/22 15:47	1
o-Xylene	<0.00100	U	0.00100		mg/Kg		03/25/22 12:24	03/28/22 15:47	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg		03/25/22 12:24	03/28/22 15:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		56 - 150	03/25/22 12:24	03/28/22 15:47	1
4-Bromofluorobenzene (Surr)	106		68 - 152	03/25/22 12:24	03/28/22 15:47	1
Dibromofluoromethane (Surr)	96		53 - 142	03/25/22 12:24	03/28/22 15:47	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3753-1
SDG: AR227020

Client Sample ID: B-5 (3-4)

Lab Sample ID: 820-3753-26

Date Collected: 03/23/22 12:50

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		70 - 130	03/25/22 12:24	03/28/22 15:47	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200		mg/Kg			03/29/22 16:02	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/28/22 12:15	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/28/22 16:43	03/28/22 22:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/28/22 16:43	03/28/22 22:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/28/22 16:43	03/28/22 22:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		65 - 130				03/28/22 16:43	03/28/22 22:04	1
o-Terphenyl (Surr)	111		65 - 130				03/28/22 16:43	03/28/22 22:04	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14400		101		mg/Kg		03/30/22 19:18	03/31/22 01:05	10

Client Sample ID: B-5 (5-6)

Lab Sample ID: 820-3753-27

Date Collected: 03/23/22 12:55

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50200		1000		mg/Kg		03/30/22 19:18	03/31/22 01:17	100

Client Sample ID: B-5 (7-8)

Lab Sample ID: 820-3753-28

Date Collected: 03/23/22 13:00

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28400		102		mg/Kg		03/30/22 19:18	03/31/22 01:29	10

Client Sample ID: B-5 (11-12)

Lab Sample ID: 820-3753-29

Date Collected: 03/23/22 13:10

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23300		101		mg/Kg		03/30/22 19:18	03/31/22 02:40	10

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3753-1
SDG: AR227020

Client Sample ID: B-5 (12-13)

Lab Sample ID: 820-3753-30

Date Collected: 03/23/22 13:20

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31800		1010		mg/Kg		03/30/22 19:18	03/31/22 02:52	100

Client Sample ID: B-5 (15-16)

Lab Sample ID: 820-3753-31

Date Collected: 03/23/22 13:30

Matrix: Solid

Date Received: 03/24/22 13:43

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000996	U	0.000996		mg/Kg		03/25/22 12:24	03/28/22 16:07	1
Toluene	<0.00498	U	0.00498		mg/Kg		03/25/22 12:24	03/28/22 16:07	1
Ethylbenzene	<0.000996	U	0.000996		mg/Kg		03/25/22 12:24	03/28/22 16:07	1
m,p-Xylenes	<0.00199	U	0.00199		mg/Kg		03/25/22 12:24	03/28/22 16:07	1
o-Xylene	<0.000996	U	0.000996		mg/Kg		03/25/22 12:24	03/28/22 16:07	1
Xylenes, Total	<0.00199	U	0.00199		mg/Kg		03/25/22 12:24	03/28/22 16:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		56 - 150	03/25/22 12:24	03/28/22 16:07	1
4-Bromofluorobenzene (Surr)	106		68 - 152	03/25/22 12:24	03/28/22 16:07	1
Dibromofluoromethane (Surr)	98		53 - 142	03/25/22 12:24	03/28/22 16:07	1
Toluene-d8 (Surr)	101		70 - 130	03/25/22 12:24	03/28/22 16:07	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00199	U	0.00199		mg/Kg			03/29/22 16:02	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/28/22 12:15	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/28/22 16:43	03/28/22 22:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/28/22 16:43	03/28/22 22:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/28/22 16:43	03/28/22 22:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		65 - 130	03/28/22 16:43	03/28/22 22:23	1
o-Terphenyl (Surr)	114		65 - 130	03/28/22 16:43	03/28/22 22:23	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9370		99.6		mg/Kg		03/30/22 19:18	03/31/22 03:04	10

Eurofins Lubbock

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3753-1
SDG: AR227020

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (56-150)	BFB (68-152)	DBFM (53-142)	TOL (70-130)
820-3753-1	B-1 (3-4)	104	109	109	107
820-3753-7	B-1 (10-11)	103	108	105	108
820-3753-8	B-2 (3-4)	106	108	105	106
820-3753-14	B-2 (10-11)	103	109	105	108
820-3753-15	B-3 (3-4)	103	107	103	108
820-3753-21	B-3 (10-11)	100	109	102	107
820-3753-22	B-4 (3-4)	106	107	103	107
820-3753-25	B-4 (7-8)	96	106	97	100
820-3753-26	B-5 (3-4)	92	106	96	104
820-3753-31	B-5 (15-16)	98	106	98	101
860-23302-C-1-A MS	Matrix Spike	101	113	101	107
880-12750-C-11-A MS - DL	Matrix Spike	96	108	100	109
880-12781-A-1-B MS - DL	Matrix Spike	87	94	100	98
LCS 860-46464/3	Lab Control Sample	99	113	101	109
LCS 860-46572/3	Lab Control Sample	97	110	97	107
LCS 860-46575/3	Lab Control Sample	91	97	105	99
LCSD 860-46464/4	Lab Control Sample Dup	100	112	99	108
LCSD 860-46572/4	Lab Control Sample Dup	95	112	102	110
LCSD 860-46575/4	Lab Control Sample Dup	92	98	106	97
MB 860-46464/8	Method Blank	99	111	102	110
MB 860-46572/8	Method Blank	102	109	105	108
MB 860-46575/8	Method Blank	97	102	100	100
Surrogate Legend					
DCA = 1,2-Dichloroethane-d4 (Surr)					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
TOL = Toluene-d8 (Surr)					

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (65-130)	OTPH1 (65-130)
820-3748-A-1-C MS	Matrix Spike	106	96
820-3748-A-1-D MSD	Matrix Spike Duplicate	106	98
820-3753-1	B-1 (3-4)	109	125
820-3753-7	B-1 (10-11)	87	97
820-3753-8	B-2 (3-4)	97	107
820-3753-14	B-2 (10-11)	93	101
820-3753-15	B-3 (3-4)	103	116
820-3753-15 MS	B-3 (3-4)	120	109
820-3753-15 MSD	B-3 (3-4)	119	108
820-3753-21	B-3 (10-11)	100	113
820-3753-22	B-4 (3-4)	99	110
820-3753-25	B-4 (7-8)	100	113
820-3753-26	B-5 (3-4)	99	111
820-3753-31	B-5 (15-16)	101	114
LCS 860-46691/2-A	Lab Control Sample	116	109

Eurofins Lubbock

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3753-1
SDG: AR227020

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (65-130)	OTPH1 (65-130)
LCS 860-46700/2-A	Lab Control Sample	119	111
LCSD 860-46691/3-A	Lab Control Sample Dup	110	104
LCSD 860-46700/3-A	Lab Control Sample Dup	116	107
MB 860-46691/1-A	Method Blank	91	101
MB 860-46700/1-A	Method Blank	97	110

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3753-1
SDG: AR227020

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: 860-23302-C-1-A MS

Matrix: Solid

Analysis Batch: 46572

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 46424

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.0252	U F1	1.26	1.587	F1	mg/Kg		126	71 - 119
Toluene	<0.126	U	1.26	1.297		mg/Kg		103	74 - 122
Ethylbenzene	<0.0252	U	1.26	1.335		mg/Kg		105	80 - 123
m,p-Xylenes	0.0657		1.26	1.378		mg/Kg		104	78 - 127
o-Xylene	0.0962		1.26	1.519		mg/Kg		113	79 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		56 - 150
4-Bromofluorobenzene (Surr)	113		68 - 152
Dibromofluoromethane (Surr)	101		53 - 142
Toluene-d8 (Surr)	107		70 - 130

Lab Sample ID: MB 860-46464/8

Matrix: Solid

Analysis Batch: 46464

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg			03/26/22 02:00	1
Toluene	<0.00500	U	0.00500		mg/Kg			03/26/22 02:00	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg			03/26/22 02:00	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg			03/26/22 02:00	1
o-Xylene	<0.00100	U	0.00100		mg/Kg			03/26/22 02:00	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg			03/26/22 02:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		56 - 150		03/26/22 02:00	1
4-Bromofluorobenzene (Surr)	111		68 - 152		03/26/22 02:00	1
Dibromofluoromethane (Surr)	102		53 - 142		03/26/22 02:00	1
Toluene-d8 (Surr)	110		70 - 130		03/26/22 02:00	1

Lab Sample ID: LCS 860-46464/3

Matrix: Solid

Analysis Batch: 46464

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.05450		mg/Kg		109	66 - 142
Toluene	0.0500	0.04431		mg/Kg		89	74 - 130
Ethylbenzene	0.0500	0.04548		mg/Kg		91	80 - 130
m,p-Xylenes	0.0500	0.04341		mg/Kg		87	78 - 130
o-Xylene	0.0500	0.04482		mg/Kg		90	79 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		56 - 150
4-Bromofluorobenzene (Surr)	113		68 - 152
Dibromofluoromethane (Surr)	101		53 - 142
Toluene-d8 (Surr)	109		70 - 130

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3753-1
SDG: AR227020

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-46464/4

Matrix: Solid

Analysis Batch: 46464

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0500	0.05464		mg/Kg		109	66 - 142	0	25
Toluene	0.0500	0.04436		mg/Kg		89	74 - 130	0	25
Ethylbenzene	0.0500	0.04528		mg/Kg		91	80 - 130	0	25
m,p-Xylenes	0.0500	0.04348		mg/Kg		87	78 - 130	0	25
o-Xylene	0.0500	0.04495		mg/Kg		90	79 - 130	0	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		56 - 150
4-Bromofluorobenzene (Surr)	112		68 - 152
Dibromofluoromethane (Surr)	99		53 - 142
Toluene-d8 (Surr)	108		70 - 130

Lab Sample ID: MB 860-46572/8

Matrix: Solid

Analysis Batch: 46572

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg			03/28/22 13:05	1
Toluene	<0.00500	U	0.00500		mg/Kg			03/28/22 13:05	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg			03/28/22 13:05	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg			03/28/22 13:05	1
o-Xylene	<0.00100	U	0.00100		mg/Kg			03/28/22 13:05	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg			03/28/22 13:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		56 - 150		03/28/22 13:05	1
4-Bromofluorobenzene (Surr)	109		68 - 152		03/28/22 13:05	1
Dibromofluoromethane (Surr)	105		53 - 142		03/28/22 13:05	1
Toluene-d8 (Surr)	108		70 - 130		03/28/22 13:05	1

Lab Sample ID: LCS 860-46572/3

Matrix: Solid

Analysis Batch: 46572

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.05948		mg/Kg		119	66 - 142
Toluene	0.0500	0.04893		mg/Kg		98	74 - 130
Ethylbenzene	0.0500	0.04960		mg/Kg		99	80 - 130
m,p-Xylenes	0.0500	0.04770		mg/Kg		95	78 - 130
o-Xylene	0.0500	0.04883		mg/Kg		98	79 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		56 - 150
4-Bromofluorobenzene (Surr)	110		68 - 152
Dibromofluoromethane (Surr)	97		53 - 142
Toluene-d8 (Surr)	107		70 - 130

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3753-1
SDG: AR227020

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-46572/4

Matrix: Solid

Analysis Batch: 46572

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0500	0.06077		mg/Kg		122	66 - 142	2	25
Toluene	0.0500	0.05023		mg/Kg		100	74 - 130	3	25
Ethylbenzene	0.0500	0.05091		mg/Kg		102	80 - 130	3	25
m,p-Xylenes	0.0500	0.04891		mg/Kg		98	78 - 130	3	25
o-Xylene	0.0500	0.05035		mg/Kg		101	79 - 130	3	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		56 - 150
4-Bromofluorobenzene (Surr)	112		68 - 152
Dibromofluoromethane (Surr)	102		53 - 142
Toluene-d8 (Surr)	110		70 - 130

Lab Sample ID: MB 860-46575/8

Matrix: Solid

Analysis Batch: 46575

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg			03/28/22 13:41	1
Toluene	<0.00500	U	0.00500		mg/Kg			03/28/22 13:41	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg			03/28/22 13:41	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg			03/28/22 13:41	1
o-Xylene	<0.00100	U	0.00100		mg/Kg			03/28/22 13:41	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg			03/28/22 13:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		56 - 150		03/28/22 13:41	1
4-Bromofluorobenzene (Surr)	102		68 - 152		03/28/22 13:41	1
Dibromofluoromethane (Surr)	100		53 - 142		03/28/22 13:41	1
Toluene-d8 (Surr)	100		70 - 130		03/28/22 13:41	1

Lab Sample ID: LCS 860-46575/3

Matrix: Solid

Analysis Batch: 46575

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.04327		mg/Kg		87	66 - 142
Toluene	0.0500	0.04171		mg/Kg		83	74 - 130
Ethylbenzene	0.0500	0.04503		mg/Kg		90	80 - 130
m,p-Xylenes	0.0500	0.04455		mg/Kg		89	78 - 130
o-Xylene	0.0500	0.04531		mg/Kg		91	79 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		56 - 150
4-Bromofluorobenzene (Surr)	97		68 - 152
Dibromofluoromethane (Surr)	105		53 - 142
Toluene-d8 (Surr)	99		70 - 130

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3753-1
SDG: AR227020

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-46575/4

Matrix: Solid

Analysis Batch: 46575

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0500	0.04566		mg/Kg		91	66 - 142	5	25
Toluene	0.0500	0.04248		mg/Kg		85	74 - 130	2	25
Ethylbenzene	0.0500	0.04699		mg/Kg		94	80 - 130	4	25
m,p-Xylenes	0.0500	0.04638		mg/Kg		93	78 - 130	4	25
o-Xylene	0.0500	0.04880		mg/Kg		98	79 - 130	7	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		56 - 150
4-Bromofluorobenzene (Surr)	98		68 - 152
Dibromofluoromethane (Surr)	106		53 - 142
Toluene-d8 (Surr)	97		70 - 130

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Lab Sample ID: 880-12750-C-11-A MS

Matrix: Solid

Analysis Batch: 46464

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 46128

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene - DL	<0.0194	U	0.968	1.058		mg/Kg		109	71 - 119
Toluene - DL	<0.0968	U	0.968	0.8957		mg/Kg		93	74 - 122
Ethylbenzene - DL	0.0285		0.968	0.9155		mg/Kg		92	80 - 123
m,p-Xylenes - DL	0.102		0.968	0.9599		mg/Kg		89	78 - 127
o-Xylene - DL	0.0599		0.968	0.9513		mg/Kg		92	79 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr) - DL	96		56 - 150
4-Bromofluorobenzene (Surr) - DL	108		68 - 152
Dibromofluoromethane (Surr) - DL	100		53 - 142
Toluene-d8 (Surr) - DL	109		70 - 130

Lab Sample ID: 880-12781-A-1-B MS

Matrix: Solid

Analysis Batch: 46575

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 46248

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene - DL	<0.0248	U	1.24	1.138		mg/Kg		90	71 - 119
Toluene - DL	<0.124	U	1.24	1.107		mg/Kg		89	74 - 122
Ethylbenzene - DL	2.39		1.24	3.585		mg/Kg		96	80 - 123
m,p-Xylenes - DL	0.260		1.24	1.441		mg/Kg		95	78 - 127
o-Xylene - DL	<0.0248	U	1.24	1.199		mg/Kg		97	79 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr) - DL	87		56 - 150

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3753-1
SDG: AR227020

Method: 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Lab Sample ID: 880-12781-A-1-B MS

Matrix: Solid

Analysis Batch: 46575

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 46248

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr) - DL	94		68 - 152
Dibromofluoromethane (Surr) - DL	100		53 - 142
Toluene-d8 (Surr) - DL	98		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 860-46691/1-A

Matrix: Solid

Analysis Batch: 46616

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46691

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/28/22 16:32	03/28/22 19:48	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/28/22 16:32	03/28/22 19:48	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/28/22 16:32	03/28/22 19:48	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane (Surr)	91		65 - 130				03/28/22 16:32	03/28/22 19:48	1	
o-Terphenyl (Surr)	101		65 - 130				03/28/22 16:32	03/28/22 19:48	1	

Lab Sample ID: LCS 860-46691/2-A

Matrix: Solid

Analysis Batch: 46616

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 46691

	Spike	LCS	LCS					%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Gasoline Range Organics (GRO)-C6-C10	1000	1101		mg/Kg		110	70 - 135			
Diesel Range Organics (Over C10-C28)	997	1063		mg/Kg		107	70 - 135			
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane (Surr)	116		65 - 130							
o-Terphenyl (Surr)	109		65 - 130							

Lab Sample ID: LCSD 860-46691/3-A

Matrix: Solid

Analysis Batch: 46616

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 46691

			Spike	LCSD	LCSD				%Rec.	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1009		mg/Kg		101	70 - 135	9	35
Diesel Range Organics (Over C10-C28)			997	988.7		mg/Kg		99	70 - 135	7	35
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane (Surr)	110		65 - 130								
o-Terphenyl (Surr)	104		65 - 130								

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3753-1
SDG: AR227020

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: 820-3748-A-1-C MS

Matrix: Solid

Analysis Batch: 46616

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 46691

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	1000	1006		mg/Kg		100	70 - 135
Diesel Range Organics (Over C10-C28)	<49.8	U	1000	946.7		mg/Kg		95	70 - 135
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane (Surr)	106		65 - 130						
o-Terphenyl (Surr)	96		65 - 130						

Lab Sample ID: 820-3748-A-1-D MSD

Matrix: Solid

Analysis Batch: 46616

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 46691

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	1020	999.7		mg/Kg		98	70 - 135	1	35
Diesel Range Organics (Over C10-C28)	<49.8	U	1010	930.9		mg/Kg		92	70 - 135	2	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	106		65 - 130								
o-Terphenyl (Surr)	98		65 - 130								

Lab Sample ID: MB 860-46700/1-A

Matrix: Solid

Analysis Batch: 46613

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46700

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/28/22 16:43	03/28/22 19:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/28/22 16:43	03/28/22 19:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/28/22 16:43	03/28/22 19:48	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		65 - 130				03/28/22 16:43	03/28/22 19:48	1
o-Terphenyl (Surr)	110		65 - 130				03/28/22 16:43	03/28/22 19:48	1

Lab Sample ID: LCS 860-46700/2-A

Matrix: Solid

Analysis Batch: 46613

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 46700

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1129		mg/Kg		113	70 - 135
Diesel Range Organics (Over C10-C28)	997	1043		mg/Kg		105	70 - 135

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3753-1
SDG: AR227020

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 860-46700/2-A

Matrix: Solid

Analysis Batch: 46613

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 46700

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	119		65 - 130
o-Terphenyl (Surr)	111		65 - 130

Lab Sample ID: LCSD 860-46700/3-A

Matrix: Solid

Analysis Batch: 46613

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 46700

			Spike	LCSD	LCSD				%Rec.			
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10			1000	1093		mg/Kg		109	70 - 135	3	35	
Diesel Range Organics (Over C10-C28)			997	1011		mg/Kg		101	70 - 135	3	35	

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	116		65 - 130
o-Terphenyl (Surr)	107		65 - 130

Lab Sample ID: 820-3753-15 MS

Matrix: Solid

Analysis Batch: 46613

Client Sample ID: B-3 (3-4)

Prep Type: Total/NA

Prep Batch: 46700

	Sample	Sample	Spike	MS	MS				%Rec.			
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	1147		mg/Kg		115	70 - 135			
Diesel Range Organics (Over C10-C28)	<50.0	U	997	1043		mg/Kg		105	70 - 135			

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	120		65 - 130
o-Terphenyl (Surr)	109		65 - 130

Lab Sample ID: 820-3753-15 MSD

Matrix: Solid

Analysis Batch: 46613

Client Sample ID: B-3 (3-4)

Prep Type: Total/NA

Prep Batch: 46700

	Sample	Sample	Spike	MSD	MSD				%Rec.			
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1010	1113		mg/Kg		110	70 - 135	3	35	
Diesel Range Organics (Over C10-C28)	<50.0	U	1010	1019		mg/Kg		101	70 - 135	2	35	

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	119		65 - 130
o-Terphenyl (Surr)	108		65 - 130

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3753-1
SDG: AR227020

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-46872/1-A

Matrix: Solid

Analysis Batch: 46754

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46872

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg		03/29/22 19:11	03/30/22 04:30	1

Lab Sample ID: MB 860-46872/28-A

Matrix: Solid

Analysis Batch: 46754

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46872

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg		03/29/22 19:11	03/30/22 09:15	1

Lab Sample ID: LCS 860-46872/29-A

Matrix: Solid

Analysis Batch: 46754

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 46872

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100	95.28		mg/Kg		95	80 - 120

Lab Sample ID: LCS 860-46872/2-A

Matrix: Solid

Analysis Batch: 46754

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 46872

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100	95.12		mg/Kg		95	80 - 120

Lab Sample ID: LCSD 860-46872/30-A

Matrix: Solid

Analysis Batch: 46754

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 46872

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	100	95.66		mg/Kg		96	80 - 120	0	20

Lab Sample ID: LCSD 860-46872/3-A

Matrix: Solid

Analysis Batch: 46754

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 46872

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	100	96.13		mg/Kg		96	80 - 120	1	20

Lab Sample ID: 820-3753-8 MS

Matrix: Solid

Analysis Batch: 46754

Client Sample ID: B-2 (3-4)

Prep Type: Total/NA

Prep Batch: 46872

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	54.0		99.6	155.2		mg/Kg		102	80 - 120

Lab Sample ID: 820-3753-8 MSD

Matrix: Solid

Analysis Batch: 46754

Client Sample ID: B-2 (3-4)

Prep Type: Total/NA

Prep Batch: 46872

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	54.0		99.8	155.7		mg/Kg		102	80 - 120	0	20

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3753-1
SDG: AR227020

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 820-3753-15 MS

Matrix: Solid

Analysis Batch: 46754

Client Sample ID: B-3 (3-4)

Prep Type: Total/NA

Prep Batch: 46872

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	125	F1	99.6	198.8	F1	mg/Kg		74	80 - 120

Lab Sample ID: 820-3753-15 MSD

Matrix: Solid

Analysis Batch: 46754

Client Sample ID: B-3 (3-4)

Prep Type: Total/NA

Prep Batch: 46872

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	125	F1	99.8	199.1	F1	mg/Kg		75	80 - 120	0	20

Lab Sample ID: MB 860-46894/3

Matrix: Solid

Analysis Batch: 46894

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.00	U	1.00		mg/Kg			03/30/22 16:34	1

Lab Sample ID: LCS 860-46894/6

Matrix: Solid

Analysis Batch: 46894

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10.0	9.518		mg/Kg		95	80 - 120

Lab Sample ID: LCSD 860-46894/7

Matrix: Solid

Analysis Batch: 46894

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10.0	9.601		mg/Kg		96	80 - 120	1	20

Lab Sample ID: LLCS 860-46894/5

Matrix: Solid

Analysis Batch: 46894

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	0.500	0.5455	J	mg/Kg		109	

Lab Sample ID: MB 860-47051/1-A

Matrix: Solid

Analysis Batch: 46894

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47051

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg		03/30/22 19:18	03/31/22 02:04	1

Lab Sample ID: LCS 860-47051/2-A

Matrix: Solid

Analysis Batch: 46894

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47051

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100	95.12		mg/Kg		95	80 - 120

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3753-1
SDG: AR227020

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 860-47051/3-A

Matrix: Solid

Analysis Batch: 46894

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 47051

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			100	96.01		mg/Kg		96	80 - 120	1	20

Lab Sample ID: 820-3753-25 MS

Matrix: Solid

Analysis Batch: 46894

Client Sample ID: B-4 (7-8)

Prep Type: Total/NA

Prep Batch: 47051

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	155		99.6	253.7		mg/Kg		99	80 - 120		

Lab Sample ID: 820-3753-25 MSD

Matrix: Solid

Analysis Batch: 46894

Client Sample ID: B-4 (7-8)

Prep Type: Total/NA

Prep Batch: 47051

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	155		99.4	253.1		mg/Kg		99	80 - 120	0	20

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3753-1
SDG: AR227020

GC/MS VOA

Prep Batch: 46128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12750-C-11-A MS - DL	Matrix Spike	Total/NA	Solid	5035	

Prep Batch: 46248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12781-A-1-B MS - DL	Matrix Spike	Total/NA	Solid	5035	

Prep Batch: 46424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3753-7	B-1 (10-11)	Total/NA	Solid	5035	
820-3753-8	B-2 (3-4)	Total/NA	Solid	5035	
820-3753-14	B-2 (10-11)	Total/NA	Solid	5035	
820-3753-15	B-3 (3-4)	Total/NA	Solid	5035	
820-3753-21	B-3 (10-11)	Total/NA	Solid	5035	
820-3753-22	B-4 (3-4)	Total/NA	Solid	5035	
820-3753-25	B-4 (7-8)	Total/NA	Solid	5035	
820-3753-26	B-5 (3-4)	Total/NA	Solid	5035	
820-3753-31	B-5 (15-16)	Total/NA	Solid	5035	
860-23302-C-1-A MS	Matrix Spike	Total/NA	Solid	5035	

Analysis Batch: 46464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3753-7	B-1 (10-11)	Total/NA	Solid	8260C	46424
820-3753-8	B-2 (3-4)	Total/NA	Solid	8260C	46424
820-3753-14	B-2 (10-11)	Total/NA	Solid	8260C	46424
820-3753-15	B-3 (3-4)	Total/NA	Solid	8260C	46424
820-3753-21	B-3 (10-11)	Total/NA	Solid	8260C	46424
820-3753-22	B-4 (3-4)	Total/NA	Solid	8260C	46424
MB 860-46464/8	Method Blank	Total/NA	Solid	8260C	
LCS 860-46464/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-46464/4	Lab Control Sample Dup	Total/NA	Solid	8260C	
880-12750-C-11-A MS - DL	Matrix Spike	Total/NA	Solid	8260C	46128

Prep Batch: 46571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3753-1	B-1 (3-4)	Total/NA	Solid	5035	

Analysis Batch: 46572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3753-1	B-1 (3-4)	Total/NA	Solid	8260C	46571
MB 860-46572/8	Method Blank	Total/NA	Solid	8260C	
LCS 860-46572/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-46572/4	Lab Control Sample Dup	Total/NA	Solid	8260C	
860-23302-C-1-A MS	Matrix Spike	Total/NA	Solid	8260C	46424

Analysis Batch: 46575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3753-25	B-4 (7-8)	Total/NA	Solid	8260C	46424
820-3753-26	B-5 (3-4)	Total/NA	Solid	8260C	46424
820-3753-31	B-5 (15-16)	Total/NA	Solid	8260C	46424
MB 860-46575/8	Method Blank	Total/NA	Solid	8260C	
LCS 860-46575/3	Lab Control Sample	Total/NA	Solid	8260C	

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3753-1
SDG: AR227020

GC/MS VOA (Continued)

Analysis Batch: 46575 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 860-46575/4	Lab Control Sample Dup	Total/NA	Solid	8260C	
880-12781-A-1-B MS - DL	Matrix Spike	Total/NA	Solid	8260C	46248

Analysis Batch: 46699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3753-7	B-1 (10-11)	Total/NA	Solid	Total BTEX	
820-3753-8	B-2 (3-4)	Total/NA	Solid	Total BTEX	
820-3753-14	B-2 (10-11)	Total/NA	Solid	Total BTEX	
820-3753-15	B-3 (3-4)	Total/NA	Solid	Total BTEX	
820-3753-21	B-3 (10-11)	Total/NA	Solid	Total BTEX	
820-3753-22	B-4 (3-4)	Total/NA	Solid	Total BTEX	

Analysis Batch: 46846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3753-1	B-1 (3-4)	Total/NA	Solid	Total BTEX	
820-3753-25	B-4 (7-8)	Total/NA	Solid	Total BTEX	
820-3753-26	B-5 (3-4)	Total/NA	Solid	Total BTEX	
820-3753-31	B-5 (15-16)	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 46613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3753-15	B-3 (3-4)	Total/NA	Solid	8015B NM	46700
820-3753-21	B-3 (10-11)	Total/NA	Solid	8015B NM	46700
820-3753-22	B-4 (3-4)	Total/NA	Solid	8015B NM	46700
820-3753-25	B-4 (7-8)	Total/NA	Solid	8015B NM	46700
820-3753-26	B-5 (3-4)	Total/NA	Solid	8015B NM	46700
820-3753-31	B-5 (15-16)	Total/NA	Solid	8015B NM	46700
MB 860-46700/1-A	Method Blank	Total/NA	Solid	8015B NM	46700
LCS 860-46700/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	46700
LCSD 860-46700/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	46700
820-3753-15 MS	B-3 (3-4)	Total/NA	Solid	8015B NM	46700
820-3753-15 MSD	B-3 (3-4)	Total/NA	Solid	8015B NM	46700

Analysis Batch: 46616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3753-7	B-1 (10-11)	Total/NA	Solid	8015B NM	46691
820-3753-8	B-2 (3-4)	Total/NA	Solid	8015B NM	46691
820-3753-14	B-2 (10-11)	Total/NA	Solid	8015B NM	46691
MB 860-46691/1-A	Method Blank	Total/NA	Solid	8015B NM	46691
LCS 860-46691/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	46691
LCSD 860-46691/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	46691
820-3748-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	46691
820-3748-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	46691

Analysis Batch: 46621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3753-1	B-1 (3-4)	Total/NA	Solid	8015 NM	
820-3753-7	B-1 (10-11)	Total/NA	Solid	8015 NM	
820-3753-8	B-2 (3-4)	Total/NA	Solid	8015 NM	

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3753-1
SDG: AR227020

GC Semi VOA (Continued)

Analysis Batch: 46621 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3753-14	B-2 (10-11)	Total/NA	Solid	8015 NM	
820-3753-15	B-3 (3-4)	Total/NA	Solid	8015 NM	
820-3753-21	B-3 (10-11)	Total/NA	Solid	8015 NM	
820-3753-22	B-4 (3-4)	Total/NA	Solid	8015 NM	
820-3753-25	B-4 (7-8)	Total/NA	Solid	8015 NM	
820-3753-26	B-5 (3-4)	Total/NA	Solid	8015 NM	
820-3753-31	B-5 (15-16)	Total/NA	Solid	8015 NM	

Prep Batch: 46691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3753-1	B-1 (3-4)	Total/NA	Solid	8015NM Prep	
820-3753-7	B-1 (10-11)	Total/NA	Solid	8015NM Prep	
820-3753-8	B-2 (3-4)	Total/NA	Solid	8015NM Prep	
820-3753-14	B-2 (10-11)	Total/NA	Solid	8015NM Prep	
MB 860-46691/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-46691/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-46691/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
820-3748-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
820-3748-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 46700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3753-15	B-3 (3-4)	Total/NA	Solid	8015NM Prep	
820-3753-21	B-3 (10-11)	Total/NA	Solid	8015NM Prep	
820-3753-22	B-4 (3-4)	Total/NA	Solid	8015NM Prep	
820-3753-25	B-4 (7-8)	Total/NA	Solid	8015NM Prep	
820-3753-26	B-5 (3-4)	Total/NA	Solid	8015NM Prep	
820-3753-31	B-5 (15-16)	Total/NA	Solid	8015NM Prep	
MB 860-46700/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-46700/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-46700/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
820-3753-15 MS	B-3 (3-4)	Total/NA	Solid	8015NM Prep	
820-3753-15 MSD	B-3 (3-4)	Total/NA	Solid	8015NM Prep	

Analysis Batch: 46766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3753-1	B-1 (3-4)	Total/NA	Solid	8015B NM	46691

HPLC/IC

Analysis Batch: 46754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3753-1	B-1 (3-4)	Total/NA	Solid	300.0	46872
820-3753-2	B-1 (5-6)	Total/NA	Solid	300.0	46872
820-3753-3	B-1 (6-7)	Total/NA	Solid	300.0	46872
820-3753-4	B-1 (7-8)	Total/NA	Solid	300.0	46872
820-3753-5	B-1 (8-9)	Total/NA	Solid	300.0	46872
820-3753-6	B-1 (9-10)	Total/NA	Solid	300.0	46872
820-3753-7	B-1 (10-11)	Total/NA	Solid	300.0	46872
820-3753-8	B-2 (3-4)	Total/NA	Solid	300.0	46872
820-3753-9	B-2 (5-6)	Total/NA	Solid	300.0	46872

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3753-1
SDG: AR227020

HPLC/IC (Continued)

Analysis Batch: 46754 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3753-11	B-2 (7-8)	Total/NA	Solid	300.0	46872
820-3753-12	B-2 (8-9)	Total/NA	Solid	300.0	46872
820-3753-13	B-2 (9-10)	Total/NA	Solid	300.0	46872
820-3753-14	B-2 (10-11)	Total/NA	Solid	300.0	46872
820-3753-15	B-3 (3-4)	Total/NA	Solid	300.0	46872
820-3753-16	B-3 (5-6)	Total/NA	Solid	300.0	46872
820-3753-17	B-3 (6-7)	Total/NA	Solid	300.0	46872
820-3753-18	B-3 (7-8)	Total/NA	Solid	300.0	46872
820-3753-19	B-3 (8-9)	Total/NA	Solid	300.0	46872
820-3753-20	B-3 (9-10)	Total/NA	Solid	300.0	46872
820-3753-21	B-3 (10-11)	Total/NA	Solid	300.0	46872
820-3753-22	B-4 (3-4)	Total/NA	Solid	300.0	46872
820-3753-23	B-4 (5-6)	Total/NA	Solid	300.0	46872
820-3753-24	B-4 (6-7)	Total/NA	Solid	300.0	46872
MB 860-46872/1-A	Method Blank	Total/NA	Solid	300.0	46872
MB 860-46872/28-A	Method Blank	Total/NA	Solid	300.0	46872
LCS 860-46872/29-A	Lab Control Sample	Total/NA	Solid	300.0	46872
LCS 860-46872/2-A	Lab Control Sample	Total/NA	Solid	300.0	46872
LCSD 860-46872/30-A	Lab Control Sample Dup	Total/NA	Solid	300.0	46872
LCSD 860-46872/3-A	Lab Control Sample Dup	Total/NA	Solid	300.0	46872
820-3753-8 MS	B-2 (3-4)	Total/NA	Solid	300.0	46872
820-3753-8 MSD	B-2 (3-4)	Total/NA	Solid	300.0	46872
820-3753-15 MS	B-3 (3-4)	Total/NA	Solid	300.0	46872
820-3753-15 MSD	B-3 (3-4)	Total/NA	Solid	300.0	46872

Prep Batch: 46872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3753-1	B-1 (3-4)	Total/NA	Solid	300_Prep	
820-3753-2	B-1 (5-6)	Total/NA	Solid	300_Prep	
820-3753-3	B-1 (6-7)	Total/NA	Solid	300_Prep	
820-3753-4	B-1 (7-8)	Total/NA	Solid	300_Prep	
820-3753-5	B-1 (8-9)	Total/NA	Solid	300_Prep	
820-3753-6	B-1 (9-10)	Total/NA	Solid	300_Prep	
820-3753-7	B-1 (10-11)	Total/NA	Solid	300_Prep	
820-3753-8	B-2 (3-4)	Total/NA	Solid	300_Prep	
820-3753-9	B-2 (5-6)	Total/NA	Solid	300_Prep	
820-3753-10	B-2 (6-7)	Total/NA	Solid	300_Prep	
820-3753-11	B-2 (7-8)	Total/NA	Solid	300_Prep	
820-3753-12	B-2 (8-9)	Total/NA	Solid	300_Prep	
820-3753-13	B-2 (9-10)	Total/NA	Solid	300_Prep	
820-3753-14	B-2 (10-11)	Total/NA	Solid	300_Prep	
820-3753-15	B-3 (3-4)	Total/NA	Solid	300_Prep	
820-3753-16	B-3 (5-6)	Total/NA	Solid	300_Prep	
820-3753-17	B-3 (6-7)	Total/NA	Solid	300_Prep	
820-3753-18	B-3 (7-8)	Total/NA	Solid	300_Prep	
820-3753-19	B-3 (8-9)	Total/NA	Solid	300_Prep	
820-3753-20	B-3 (9-10)	Total/NA	Solid	300_Prep	
820-3753-21	B-3 (10-11)	Total/NA	Solid	300_Prep	
820-3753-22	B-4 (3-4)	Total/NA	Solid	300_Prep	
820-3753-23	B-4 (5-6)	Total/NA	Solid	300_Prep	
820-3753-24	B-4 (6-7)	Total/NA	Solid	300_Prep	

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3753-1
SDG: AR227020

HPLC/IC (Continued)

Prep Batch: 46872 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-46872/1-A	Method Blank	Total/NA	Solid	300_Prep	
MB 860-46872/28-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-46872/29-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCS 860-46872/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-46872/30-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
LCSD 860-46872/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
820-3753-8 MS	B-2 (3-4)	Total/NA	Solid	300_Prep	
820-3753-8 MSD	B-2 (3-4)	Total/NA	Solid	300_Prep	
820-3753-15 MS	B-3 (3-4)	Total/NA	Solid	300_Prep	
820-3753-15 MSD	B-3 (3-4)	Total/NA	Solid	300_Prep	

Analysis Batch: 46894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3753-10	B-2 (6-7)	Total/NA	Solid	300.0	46872
820-3753-25	B-4 (7-8)	Total/NA	Solid	300.0	47051
820-3753-26	B-5 (3-4)	Total/NA	Solid	300.0	47051
820-3753-27	B-5 (5-6)	Total/NA	Solid	300.0	47051
820-3753-28	B-5 (7-8)	Total/NA	Solid	300.0	47051
820-3753-29	B-5 (11-12)	Total/NA	Solid	300.0	47051
820-3753-30	B-5 (12-13)	Total/NA	Solid	300.0	47051
820-3753-31	B-5 (15-16)	Total/NA	Solid	300.0	47051
MB 860-46894/3	Method Blank	Total/NA	Solid	300.0	
MB 860-47051/1-A	Method Blank	Total/NA	Solid	300.0	47051
LCS 860-46894/6	Lab Control Sample	Total/NA	Solid	300.0	
LCS 860-47051/2-A	Lab Control Sample	Total/NA	Solid	300.0	47051
LCSD 860-46894/7	Lab Control Sample Dup	Total/NA	Solid	300.0	
LCSD 860-47051/3-A	Lab Control Sample Dup	Total/NA	Solid	300.0	47051
LLCS 860-46894/5	Lab Control Sample	Total/NA	Solid	300.0	
820-3753-25 MS	B-4 (7-8)	Total/NA	Solid	300.0	47051
820-3753-25 MSD	B-4 (7-8)	Total/NA	Solid	300.0	47051

Prep Batch: 47051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3753-25	B-4 (7-8)	Total/NA	Solid	300_Prep	
820-3753-26	B-5 (3-4)	Total/NA	Solid	300_Prep	
820-3753-27	B-5 (5-6)	Total/NA	Solid	300_Prep	
820-3753-28	B-5 (7-8)	Total/NA	Solid	300_Prep	
820-3753-29	B-5 (11-12)	Total/NA	Solid	300_Prep	
820-3753-30	B-5 (12-13)	Total/NA	Solid	300_Prep	
820-3753-31	B-5 (15-16)	Total/NA	Solid	300_Prep	
MB 860-47051/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-47051/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-47051/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
820-3753-25 MS	B-4 (7-8)	Total/NA	Solid	300_Prep	
820-3753-25 MSD	B-4 (7-8)	Total/NA	Solid	300_Prep	

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3753-1
SDG: AR227020

Client Sample ID: B-1 (3-4)

Lab Sample ID: 820-3753-1

Date Collected: 03/23/22 11:25

Matrix: Solid

Date Received: 03/24/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	46571	03/28/22 09:21	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	46572	03/28/22 17:57	CSP	XEN STF
Total/NA	Analysis	Total BTEX		1			46846	03/29/22 16:02	CSP	XEN STF
Total/NA	Analysis	8015 NM		1			46621	03/29/22 13:09	DD	XEN STF
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46691	03/28/22 16:32	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			46766	03/29/22 23:57	T1S	XEN STF
Total/NA	Prep	300_Prep			5.06 g	50 mL	46872	03/29/22 19:11	ANP	XEN STF
Total/NA	Analysis	300.0		1			46754	03/30/22 08:27	ANP	XEN STF

Client Sample ID: B-1 (5-6)

Lab Sample ID: 820-3753-2

Date Collected: 03/23/22 11:27

Matrix: Solid

Date Received: 03/24/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	300_Prep			5.09 g	50 mL	46872	03/29/22 19:11	ANP	XEN STF
Total/NA	Analysis	300.0		1			46754	03/30/22 08:39	ANP	XEN STF

Client Sample ID: B-1 (6-7)

Lab Sample ID: 820-3753-3

Date Collected: 03/23/22 11:29

Matrix: Solid

Date Received: 03/24/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	300_Prep			5.08 g	50 mL	46872	03/29/22 19:11	ANP	XEN STF
Total/NA	Analysis	300.0		1			46754	03/30/22 09:51	ANP	XEN STF

Client Sample ID: B-1 (7-8)

Lab Sample ID: 820-3753-4

Date Collected: 03/23/22 11:31

Matrix: Solid

Date Received: 03/24/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	300_Prep			4.93 g	50 mL	46872	03/29/22 19:11	ANP	XEN STF
Total/NA	Analysis	300.0		1			46754	03/30/22 10:03	ANP	XEN STF

Client Sample ID: B-1 (8-9)

Lab Sample ID: 820-3753-5

Date Collected: 03/23/22 11:33

Matrix: Solid

Date Received: 03/24/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	300_Prep			4.97 g	50 mL	46872	03/29/22 19:11	ANP	XEN STF
Total/NA	Analysis	300.0		1			46754	03/30/22 10:14	ANP	XEN STF

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3753-1
SDG: AR227020

Client Sample ID: B-1 (9-10)

Date Collected: 03/23/22 11:35

Date Received: 03/24/22 13:43

Lab Sample ID: 820-3753-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	300_Prep			4.98 g	50 mL	46872	03/29/22 19:11	ANP	XEN STF
Total/NA	Analysis	300.0		1			46754	03/30/22 10:26	ANP	XEN STF

Client Sample ID: B-1 (10-11)

Date Collected: 03/23/22 11:37

Date Received: 03/24/22 13:43

Lab Sample ID: 820-3753-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	46424	03/25/22 12:24	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	46464	03/26/22 07:14	CSP	XEN STF
Total/NA	Analysis	Total BTEX		1			46699	03/28/22 16:43	CSP	XEN STF
Total/NA	Analysis	8015 NM		1			46621	03/29/22 13:09	DD	XEN STF
Total/NA	Prep	8015NM Prep			10.14 g	10 mL	46691	03/28/22 16:32	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			46616	03/29/22 02:37	T1S	XEN STF
Total/NA	Prep	300_Prep			4.93 g	50 mL	46872	03/29/22 19:11	ANP	XEN STF
Total/NA	Analysis	300.0		1			46754	03/30/22 10:38	ANP	XEN STF

Client Sample ID: B-2 (3-4)

Date Collected: 03/23/22 11:42

Date Received: 03/24/22 13:43

Lab Sample ID: 820-3753-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	46424	03/25/22 12:24	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	46464	03/26/22 07:35	CSP	XEN STF
Total/NA	Analysis	Total BTEX		1			46699	03/28/22 16:43	CSP	XEN STF
Total/NA	Analysis	8015 NM		1			46621	03/29/22 13:09	DD	XEN STF
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46691	03/28/22 16:32	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			46616	03/29/22 02:56	T1S	XEN STF
Total/NA	Prep	300_Prep			4.92 g	50 mL	46872	03/29/22 19:11	ANP	XEN STF
Total/NA	Analysis	300.0		1			46754	03/30/22 10:50	ANP	XEN STF

Client Sample ID: B-2 (5-6)

Date Collected: 03/23/22 11:44

Date Received: 03/24/22 13:43

Lab Sample ID: 820-3753-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	300_Prep			4.98 g	50 mL	46872	03/29/22 19:11	ANP	XEN STF
Total/NA	Analysis	300.0		1			46754	03/30/22 11:49	ANP	XEN STF

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3753-1
SDG: AR227020

Client Sample ID: B-2 (6-7)

Date Collected: 03/23/22 11:46

Date Received: 03/24/22 13:43

Lab Sample ID: 820-3753-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	300_Prep			4.97 g	50 mL	46872	03/29/22 19:11	ANP	XEN STF
Total/NA	Analysis	300.0		1			46894	03/31/22 14:20	A1S	XEN STF

Client Sample ID: B-2 (7-8)

Date Collected: 03/23/22 11:48

Date Received: 03/24/22 13:43

Lab Sample ID: 820-3753-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	300_Prep			4.92 g	50 mL	46872	03/29/22 19:11	ANP	XEN STF
Total/NA	Analysis	300.0		1			46754	03/30/22 12:13	ANP	XEN STF

Client Sample ID: B-2 (8-9)

Date Collected: 03/23/22 11:50

Date Received: 03/24/22 13:43

Lab Sample ID: 820-3753-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	300_Prep			4.91 g	50 mL	46872	03/29/22 19:11	ANP	XEN STF
Total/NA	Analysis	300.0		1			46754	03/30/22 12:25	ANP	XEN STF

Client Sample ID: B-2 (9-10)

Date Collected: 03/23/22 11:52

Date Received: 03/24/22 13:43

Lab Sample ID: 820-3753-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	300_Prep			4.90 g	50 mL	46872	03/29/22 19:11	ANP	XEN STF
Total/NA	Analysis	300.0		10			46754	03/30/22 12:37	ANP	XEN STF

Client Sample ID: B-2 (10-11)

Date Collected: 03/23/22 11:54

Date Received: 03/24/22 13:43

Lab Sample ID: 820-3753-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	46424	03/25/22 12:24	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	46464	03/26/22 07:56	CSP	XEN STF
Total/NA	Analysis	Total BTEX		1			46699	03/28/22 16:43	CSP	XEN STF
Total/NA	Analysis	8015 NM		1			46621	03/29/22 13:09	DD	XEN STF
Total/NA	Prep	8015NM Prep			10.12 g	10 mL	46691	03/28/22 16:32	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			46616	03/29/22 03:15	T1S	XEN STF
Total/NA	Prep	300_Prep			4.97 g	50 mL	46872	03/29/22 19:11	ANP	XEN STF
Total/NA	Analysis	300.0		10			46754	03/30/22 12:49	ANP	XEN STF

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3753-1
SDG: AR227020

Client Sample ID: B-3 (3-4)

Lab Sample ID: 820-3753-15

Date Collected: 03/23/22 12:00

Matrix: Solid

Date Received: 03/24/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	46424	03/25/22 12:24	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	46464	03/26/22 08:17	CSP	XEN STF
Total/NA	Analysis	Total BTEX		1			46699	03/28/22 16:43	CSP	XEN STF
Total/NA	Analysis	8015 NM		1			46621	03/28/22 12:15	DD	XEN STF
Total/NA	Prep	8015NM Prep			10 g	10 mL	46700	03/28/22 16:43	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			46613	03/28/22 20:07	T1S	XEN STF
Total/NA	Prep	300_Prep			4.93 g	50 mL	46872	03/29/22 19:11	ANP	XEN STF
Total/NA	Analysis	300.0		1			46754	03/30/22 13:00	ANP	XEN STF

Client Sample ID: B-3 (5-6)

Lab Sample ID: 820-3753-16

Date Collected: 03/23/22 12:02

Matrix: Solid

Date Received: 03/24/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	300_Prep			4.98 g	50 mL	46872	03/29/22 19:11	ANP	XEN STF
Total/NA	Analysis	300.0		10			46754	03/30/22 14:00	ANP	XEN STF

Client Sample ID: B-3 (6-7)

Lab Sample ID: 820-3753-17

Date Collected: 03/23/22 12:04

Matrix: Solid

Date Received: 03/24/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	300_Prep			4.97 g	50 mL	46872	03/29/22 19:11	ANP	XEN STF
Total/NA	Analysis	300.0		1			46754	03/30/22 14:12	ANP	XEN STF

Client Sample ID: B-3 (7-8)

Lab Sample ID: 820-3753-18

Date Collected: 03/23/22 12:06

Matrix: Solid

Date Received: 03/24/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	300_Prep			4.92 g	50 mL	46872	03/29/22 19:11	ANP	XEN STF
Total/NA	Analysis	300.0		1			46754	03/30/22 14:24	ANP	XEN STF

Client Sample ID: B-3 (8-9)

Lab Sample ID: 820-3753-19

Date Collected: 03/23/22 12:08

Matrix: Solid

Date Received: 03/24/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	300_Prep			4.93 g	50 mL	46872	03/29/22 19:11	ANP	XEN STF
Total/NA	Analysis	300.0		1			46754	03/30/22 14:36	ANP	XEN STF

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3753-1
SDG: AR227020

Client Sample ID: B-3 (9-10)

Lab Sample ID: 820-3753-20

Date Collected: 03/23/22 12:10

Matrix: Solid

Date Received: 03/24/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	300_Prep			5.08 g	50 mL	46872	03/29/22 19:11	ANP	XEN STF
Total/NA	Analysis	300.0		1			46754	03/30/22 14:47	ANP	XEN STF

Client Sample ID: B-3 (10-11)

Lab Sample ID: 820-3753-21

Date Collected: 03/23/22 12:12

Matrix: Solid

Date Received: 03/24/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	46424	03/25/22 12:24	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	46464	03/26/22 08:38	CSP	XEN STF
Total/NA	Analysis	Total BTEX		1			46699	03/28/22 16:43	CSP	XEN STF
Total/NA	Analysis	8015 NM		1			46621	03/28/22 12:15	DD	XEN STF
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46700	03/28/22 16:43	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			46613	03/28/22 21:05	T1S	XEN STF
Total/NA	Prep	300_Prep			5.09 g	50 mL	46872	03/29/22 19:11	ANP	XEN STF
Total/NA	Analysis	300.0		1			46754	03/30/22 14:59	ANP	XEN STF

Client Sample ID: B-4 (3-4)

Lab Sample ID: 820-3753-22

Date Collected: 03/23/22 12:30

Matrix: Solid

Date Received: 03/24/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	46424	03/25/22 12:24	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	46464	03/26/22 08:59	CSP	XEN STF
Total/NA	Analysis	Total BTEX		1			46699	03/28/22 16:43	CSP	XEN STF
Total/NA	Analysis	8015 NM		1			46621	03/28/22 12:15	DD	XEN STF
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	46700	03/28/22 16:43	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			46613	03/28/22 21:25	T1S	XEN STF
Total/NA	Prep	300_Prep			5.02 g	50 mL	46872	03/29/22 19:11	ANP	XEN STF
Total/NA	Analysis	300.0		1			46754	03/30/22 15:11	ANP	XEN STF

Client Sample ID: B-4 (5-6)

Lab Sample ID: 820-3753-23

Date Collected: 03/23/22 12:35

Matrix: Solid

Date Received: 03/24/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	300_Prep			5.04 g	50 mL	46872	03/29/22 19:11	ANP	XEN STF
Total/NA	Analysis	300.0		10			46754	03/30/22 15:23	ANP	XEN STF

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3753-1
SDG: AR227020

Client Sample ID: B-4 (6-7)

Lab Sample ID: 820-3753-24

Date Collected: 03/23/22 12:40

Matrix: Solid

Date Received: 03/24/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	300_Prep			5.06 g	50 mL	46872	03/29/22 19:11	ANP	XEN STF
Total/NA	Analysis	300.0		1			46754	03/30/22 15:35	ANP	XEN STF

Client Sample ID: B-4 (7-8)

Lab Sample ID: 820-3753-25

Date Collected: 03/23/22 12:45

Matrix: Solid

Date Received: 03/24/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	46424	03/25/22 12:24	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	46575	03/28/22 15:21	KLV	XEN STF
Total/NA	Analysis	Total BTEX		1			46846	03/29/22 16:02	CSP	XEN STF
Total/NA	Analysis	8015 NM		1			46621	03/28/22 12:15	DD	XEN STF
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	46700	03/28/22 16:43	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			46613	03/28/22 21:44	T1S	XEN STF
Total/NA	Prep	300_Prep			4.97 g	50 mL	47051	03/30/22 19:18	ANP	XEN STF
Total/NA	Analysis	300.0		1			46894	03/31/22 00:30	A1S	XEN STF

Client Sample ID: B-5 (3-4)

Lab Sample ID: 820-3753-26

Date Collected: 03/23/22 12:50

Matrix: Solid

Date Received: 03/24/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	46424	03/25/22 12:24	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	46575	03/28/22 15:47	KLV	XEN STF
Total/NA	Analysis	Total BTEX		1			46846	03/29/22 16:02	CSP	XEN STF
Total/NA	Analysis	8015 NM		1			46621	03/28/22 12:15	DD	XEN STF
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46700	03/28/22 16:43	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			46613	03/28/22 22:04	T1S	XEN STF
Total/NA	Prep	300_Prep			4.97 g	50 mL	47051	03/30/22 19:18	ANP	XEN STF
Total/NA	Analysis	300.0		10			46894	03/31/22 01:05	A1S	XEN STF

Client Sample ID: B-5 (5-6)

Lab Sample ID: 820-3753-27

Date Collected: 03/23/22 12:55

Matrix: Solid

Date Received: 03/24/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	300_Prep			4.98 g	50 mL	47051	03/30/22 19:18	ANP	XEN STF
Total/NA	Analysis	300.0		100			46894	03/31/22 01:17	A1S	XEN STF

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3753-1
SDG: AR227020

Client Sample ID: B-5 (7-8)

Lab Sample ID: 820-3753-28

Date Collected: 03/23/22 13:00

Matrix: Solid

Date Received: 03/24/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	300_Prep			4.90 g	50 mL	47051	03/30/22 19:18	ANP	XEN STF
Total/NA	Analysis	300.0		10			46894	03/31/22 01:29	A1S	XEN STF

Client Sample ID: B-5 (11-12)

Lab Sample ID: 820-3753-29

Date Collected: 03/23/22 13:10

Matrix: Solid

Date Received: 03/24/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	300_Prep			4.94 g	50 mL	47051	03/30/22 19:18	ANP	XEN STF
Total/NA	Analysis	300.0		10			46894	03/31/22 02:40	A1S	XEN STF

Client Sample ID: B-5 (12-13)

Lab Sample ID: 820-3753-30

Date Collected: 03/23/22 13:20

Matrix: Solid

Date Received: 03/24/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	300_Prep			4.95 g	50 mL	47051	03/30/22 19:18	ANP	XEN STF
Total/NA	Analysis	300.0		100			46894	03/31/22 02:52	A1S	XEN STF

Client Sample ID: B-5 (15-16)

Lab Sample ID: 820-3753-31

Date Collected: 03/23/22 13:30

Matrix: Solid

Date Received: 03/24/22 13:43

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	46424	03/25/22 12:24	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	46575	03/28/22 16:07	KLV	XEN STF
Total/NA	Analysis	Total BTEX		1			46846	03/29/22 16:02	CSP	XEN STF
Total/NA	Analysis	8015 NM		1			46621	03/28/22 12:15	DD	XEN STF
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46700	03/28/22 16:43	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			46613	03/28/22 22:23	T1S	XEN STF
Total/NA	Prep	300_Prep			5.02 g	50 mL	47051	03/30/22 19:18	ANP	XEN STF
Total/NA	Analysis	300.0		10			46894	03/31/22 03:04	A1S	XEN STF

Laboratory References:

XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Eurofins Lubbock

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3753-1
SDG: AR227020

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-21-44	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
8015B NM	8015NM Prep	Solid	Diesel Range Organics (Over C10-C28)
8015B NM	8015NM Prep	Solid	Gasoline Range Organics (GRO)-C6-C10
8015B NM	8015NM Prep	Solid	Oil Range Organics (Over C28-C36)
Total BTEX		Solid	Total BTEX

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3753-1
SDG: AR227020

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	XEN STF
Total BTEX	Total BTEX Calculation	TAL SOP	XEN STF
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
300.0	Anions, Ion Chromatography	MCAWW	XEN STF
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	MCAWW	XEN STF
5035	Closed System Purge and Trap	SW846	XEN STF
8015NM Prep	Microextraction	SW846	XEN STF

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: JR HORZ

Job ID: 820-3753-1
SDG: AR227020

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
820-3753-1	B-1 (3-4)	Solid	03/23/22 11:25	03/24/22 13:43
820-3753-2	B-1 (5-6)	Solid	03/23/22 11:27	03/24/22 13:43
820-3753-3	B-1 (6-7)	Solid	03/23/22 11:29	03/24/22 13:43
820-3753-4	B-1 (7-8)	Solid	03/23/22 11:31	03/24/22 13:43
820-3753-5	B-1 (8-9)	Solid	03/23/22 11:33	03/24/22 13:43
820-3753-6	B-1 (9-10)	Solid	03/23/22 11:35	03/24/22 13:43
820-3753-7	B-1 (10-11)	Solid	03/23/22 11:37	03/24/22 13:43
820-3753-8	B-2 (3-4)	Solid	03/23/22 11:42	03/24/22 13:43
820-3753-9	B-2 (5-6)	Solid	03/23/22 11:44	03/24/22 13:43
820-3753-10	B-2 (6-7)	Solid	03/23/22 11:46	03/24/22 13:43
820-3753-11	B-2 (7-8)	Solid	03/23/22 11:48	03/24/22 13:43
820-3753-12	B-2 (8-9)	Solid	03/23/22 11:50	03/24/22 13:43
820-3753-13	B-2 (9-10)	Solid	03/23/22 11:52	03/24/22 13:43
820-3753-14	B-2 (10-11)	Solid	03/23/22 11:54	03/24/22 13:43
820-3753-15	B-3 (3-4)	Solid	03/23/22 12:00	03/24/22 13:43
820-3753-16	B-3 (5-6)	Solid	03/23/22 12:02	03/24/22 13:43
820-3753-17	B-3 (6-7)	Solid	03/23/22 12:04	03/24/22 13:43
820-3753-18	B-3 (7-8)	Solid	03/23/22 12:06	03/24/22 13:43
820-3753-19	B-3 (8-9)	Solid	03/23/22 12:08	03/24/22 13:43
820-3753-20	B-3 (9-10)	Solid	03/23/22 12:10	03/24/22 13:43
820-3753-21	B-3 (10-11)	Solid	03/23/22 12:12	03/24/22 13:43
820-3753-22	B-4 (3-4)	Solid	03/23/22 12:30	03/24/22 13:43
820-3753-23	B-4 (5-6)	Solid	03/23/22 12:35	03/24/22 13:43
820-3753-24	B-4 (6-7)	Solid	03/23/22 12:40	03/24/22 13:43
820-3753-25	B-4 (7-8)	Solid	03/23/22 12:45	03/24/22 13:43
820-3753-26	B-5 (3-4)	Solid	03/23/22 12:50	03/24/22 13:43
820-3753-27	B-5 (5-6)	Solid	03/23/22 12:55	03/24/22 13:43
820-3753-28	B-5 (7-8)	Solid	03/23/22 13:00	03/24/22 13:43
820-3753-29	B-5 (11-12)	Solid	03/23/22 13:10	03/24/22 13:43
820-3753-30	B-5 (12-13)	Solid	03/23/22 13:20	03/24/22 13:43
820-3753-31	B-5 (15-16)	Solid	03/23/22 13:30	03/24/22 13:43

Loc: 820
3753

CHAIN OF CUSTODY RECORD									
LAB USE ONLY									
DUE DATE: _____									
TEMP OF COOLER WHEN RECEIVED (°C) -9.6 -9.4									
Page 1 of 2									
Office Location Lubbock Project Manager J. Guesnier Sampler's Name J. Guesnier Laboratory: Xenco Address: 6701 Aberdeen Lubbock, Texas 79424 Phone: _____ Contact: _____ SRS #: _____ Sampler's Signature _____									
Project Number		Project Name		Identifying Marks of Sample(s)		No. Type of Containers		ANALYSIS REQUESTED	
AR227020		JR HORZ				4 oz Glass 2 oz Glass 250 ml Poly 5035 Kit		Chloride (EPA Method 800) TPH Extended 8015 BTEX (EPA Method 8260B)	
Matrix	Date	Time	Grab	Comp	Start Depth	End Depth	Lab Sample ID		
S	3/23/2022	11:25	X		3'	4'	X	X	
S	3/23/2022	11:27	X		5'	6'	X	X	
S	3/23/2022	11:29	X		6'	7'	X	X	
S	3/23/2022	11:31	X		7'	8'	X	X	
S	3/23/2022	11:33	X		8'	9'	X	X	
S	3/23/2022	11:35	X		9'	10'	X	X	
S	3/23/2022	11:37	X		10'	11'	X	X	
S	3/23/2022	11:42	X		3'	4'	X	X	
S	3/23/2022	11:44	X		5'	6'	X	X	
S	3/23/2022	11:46	X		6'	7'	X	X	
S	3/23/2022	11:48	X		7'	8'	X	X	
S	3/23/2022	11:50	X		8'	9'	X	X	
S	3/23/2022	11:52	X		9'	10'	X	X	
S	3/23/2022	11:54	X		10'	11'	X	X	
S	3/23/2022	12:00	X		3'	4'	X	X	
S	3/23/2022	12:02	X		5'	6'	X	X	
S	3/23/2022	12:04	X		6'	7'	X	X	
S	3/23/2022	12:06	X		7'	8'	X	X	
S	3/23/2022	12:08	X		8'	9'	X	X	
S	3/23/2022	12:10	X		9'	10'	X	X	
TURNAROUND TIME Relinquished by (Signature) _____ Date: 3-24-22 13:43 Relinquished by (Signature) _____ Date: _____ Relinquished by (Signature) _____ Date: _____ Relinquished by (Signature) _____ Date: _____ TRRP Laboratory Review Checklist ☐ 24-Hour Rush ☐ 48-Hour Rush ☐ Normal Received by (Signature) _____ Date: 3-24-22 13:43 Received by (Signature) _____ Date: _____ Received by (Signature) _____ Date: _____ Received by (Signature) _____ Date: _____ NOTES: Client: _____ e-mail results to: joseph.guesnier@terracon.com erin.joyd@terracon.com									
Memo Container WW Water VOA, All metal W. Water AIG - Amber Glass 1L 250 ml - Glass wide mouth 100 - Plastic or other Sl. Sludge C - Charcoal tube 1. Liquid A - Air Bag									
Lubbock Office ■ 5827 50th Street, Suite 1 ■ Lubbock, Texas 79424 ■ 806-300-0140 Responsive ■ Resourceful ■ Reliable									



[illegible]

Chain of Custody Record



Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM: Kramer, Jessica	Carrier Tracking No(s): 820-3439-2	COC No: 820-3439-2
Client Contact		Phone:	E-Mail: jessica.kramer@eurofinset.com	State of Origin: Texas	Page: Page 2 of 4
Shipping/Receiving		Accreditations Required (See note): NELAP Texas			
Company: Eurofins Environment Testing South Centr		Job #: 820-3753-1			
Address: 4145 Greenbriar Dr		Preservation Codes:			
City: Stafford	State, Zip: TX, 77477	Analysis Requested			
Phone: 281-240-4200(Tel)	PO #:	Total BTEX			
Email:	WO #:	8206C/6035FP_Calc (MOD) BTEX			
Project Name: JR HORZ	Project #: 82000340	8015MD_NM/8015NM_S_Prep (MOD) Full TPH			
Site:	SSOW#:	300_ORGPM_28D/300_Prep Chloride			
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=oil, G=gas, A=air)
B-2 (6-7) (820-3753-10)	3/23/22	11:46	Central		Solid
B-2 (7-8) (820-3753-11)	3/23/22	11:48	Central		Solid
B-2 (8-9) (820-3753-12)	3/23/22	11:50	Central		Solid
B-2 (9-10) (820-3753-13)	3/23/22	11:52	Central		Solid
B-2 (10-11) (820-3753-14)	3/23/22	11:54	Central		Solid
B-3 (3-4) (820-3753-15)	3/23/22	12:00	Central		Solid
B-3 (5-6) (820-3753-16)	3/23/22	12:02	Central		Solid
B-3 (6-7) (820-3753-17)	3/23/22	12:04	Central		Solid
B-3 (7-8) (820-3753-18)	3/23/22	12:06	Central		Solid
Special Instructions/Note:		Temp: 41.2 IR ID-HOU-223 C/F-0.1 Corrected Temp: 41.1			
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.					
Possible Hazard Identification					
Unconfirmed					
Deliverable Requested: I II III, IV Other (specify)					
Primary Deliverable Rank: 2					
Empty Kit Relinquished by					
Relinquished by: [Signature]					
Relinquished by: [Signature]					
Relinquished by: [Signature]					
Custody Seals Intact: ☐ Yes ☒ No					
Custody Seal No.					
Cooler Temperature(s) °C and Other Remarks:					
Ver 06/08/2021					

Eurofins Lubbock
6701 Aberdeen Ave, Suite 8
Lubbock, TX 79424
Phone: 806-794-1296

Chain of Custody Record

eurofins Environment Testing
America

Client Information (Sub Contract Lab)		Lab PM: Kramer Jessica		Carrier Tracking No(s): 820-3439-3		COC No: 820-3439-3	
Client Contact: Shipping/Receiving		Phone: Jessica.kramer@eurofinset.com		State of Origin: Texas		Page: Page 3 of 4	
Company: Eurofins Environment Testing South Centr		E-Mail: Jessica.kramer@eurofinset.com		Job #:		Job #:	
Address: 4145 Greenbriar Dr		Accreditations Required (See note): NELAP Texas		Job #:		Job #:	
City: Stallford		Due Date Requested: 3/30/2022		Analysis Requested:		Preservation Codes:	
State Zip: TX 77477		TAT Requested (days):		Analysis Requested:		Preservation Codes:	
Phone: 281-240-4200(Tel)		PO #:		Analysis Requested:		Preservation Codes:	
Email: 281-240-4200(Tel)		WO #:		Analysis Requested:		Preservation Codes:	
Project Name: JR HORZ		Project #:		Analysis Requested:		Preservation Codes:	
Site: SSOW#		SSOW#:		Analysis Requested:		Preservation Codes:	
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=oil, BT=biological, AS=air)	
B-3 (8-9) (820-3753-19)		3/23/22		12:08 Central		Solid	
B-3 (9-10) (820-3753-20)		3/23/22		12:10 Central		Solid	
B-3 (10-11) (820-3753-21)		3/23/22		12:12 Central		Solid	
B-4 (3-4) (820-3753-22)		3/23/22		12:30 Central		Solid	
B-4 (5-6) (820-3753-23)		3/23/22		12:35 Central		Solid	
B-4 (6-7) (820-3753-24)		3/23/22		12:40 Central		Solid	
B-4 (7-8) (820-3753-25)		3/23/22		12:45 Central		Solid	
B-5 (3-4) (820-3753-26)		3/23/22		12:50 Central		Solid	
B-5 (5-6) (820-3753-27)		3/23/22		12:55 Central		Solid	
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.							
Possible Hazard Identification							
Unconfirmed							
Deliverable Requested: I, II, III, IV Other (specify)							
Primary Deliverable Rank: 2							
Empty Kit Relinquished by							
Date:							
Relinquished by: Andrew 1. Puyeffor							
Relinquished by: FedEx							
Relinquished by:							
Custody Seals Intact							
Custody Seal No.							
Cooler Temperature(s) °C and Other Remarks:							
Temp: 4.2 IR ID HOU-223							
C/F: -0.1 Corrected Temp: 4.1							
Ver 06/08/2021							

Client Information (Sub Contract Lab)		Lab POC	Carrier Tracking No(s)	COC No:
Client Contact: Shipping/Receiving Eurofins Environment Testing South Central		Kramer Jessica		820-3439.4
Company:		E-Mail: jessica.kramer@eurofinset.com	State of Origin: Texas	Page: Page 4 of 4
Address: 4145 Greenbriar Dr Stafford TX, 77477		Phone: 281-240-4200(Tel) Email:	Accreditations Required (See note): NELAP Texas	Job #: 820-3753-1
Due Date Requested: 3/30/2022		Preservation Codes:		
TAT Requested (days):		A HCL B NaOH C Zn Acetate D Nitric Acid E NaHSO4 F MeOH G Anichlor H Ascorbic Acid I Ice J DI Water K EDTA L EDA Other		
PO #:				
WO #:				
Project #: 82000340				
Site:				
SSOW#:				
Sample Identification Client ID (Lab ID)		Special Instructions/Note:		
B-5 (7-8) (820-3753-28)	Sample Date 3/23/22	Sample Time 13:00 Central	Sample Type (C=Comp, G=grab) Central	Matrix (Monomer, Squalene, Oxidation, BT-THAM, Anal)
B-5 (11 12) (820-3753-29)	Sample Date 3/23/22	Sample Time 13:10 Central	Sample Type Central	Matrix Solid
B-5 (12-13) (820-3753-30)	Sample Date 3/23/22	Sample Time 13:20 Central	Sample Type Central	Matrix Solid
B-5 (15-16) (820-3753-31)	Sample Date 3/23/22	Sample Time 13:30 Central	Sample Type Central	Matrix Solid
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.				
Possible Hazard Identification				
Unconfirmed				
Deliverable Requested: I, II, III, IV Other (specify)		Primary Deliverable Rank: 2		
Empty Kit Relinquished by		Date:		
Relinquished by: Anthony J. Pugger		Date/Time: 3/24/22 17:00		
Relinquished by:		Date/Time:		
Relinquished by:		Date/Time:		
Custody Seal No.		Custody Seal No.		
A Yes A No		A Yes A No		

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 820-3753-1

SDG Number: AR227020

Login Number: 3753

List Number: 1

Creator: Ruggles, Ashley

List Source: Eurofins Lubbock

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 820-3753-1

SDG Number: AR227020

Login Number: 3753

List Number: 2

Creator: Milone, Jeancarlo

List Source: Eurofins Houston

List Creation: 03/25/22 12:12 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	



Environment Testing America

ANALYTICAL REPORT

Eurofins Lubbock
6701 Aberdeen Ave.
Suite 8
Lubbock, TX 79424
Tel: (806)794-1296

Laboratory Job ID: 820-4663-1

Laboratory Sample Delivery Group: AR227020

Client Project/Site: JR Horz Release

For:

Terracon Consulting Eng & Scientists
5847 50th St
Lubbock, Texas 79424

Attn: Joseph Guesnier

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

Authorized for release by:

6/26/2022 7:58:56 PM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



Visit us at:

www.eurofinsus.com/Env

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Laboratory Job ID: 820-4663-1
SDG: AR227020

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Coliform MCLs

· Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

Warranties, Terms, and Conditions

· Analyses for Field Parameters are performed by EQC field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification #02015

VL = field staff performs tests under NJ State certification #06005

WG = field staff performs tests under NJ State certification #PA001

H = field staff performs tests under NJ NELAP certification #PA093, PA NELAP certification # 46-

05499

· Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.

· The report shall not be reproduced, except in full, without the written consent of the laboratory

· All samples are collected as "grab" samples unless otherwise identified.

· Reported results related only to the samples as tested. EQC is not responsible for sample integrity unless sampling has been performed by a member of our staff.

· EQC is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.

· Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.

· The following personnel or their deputies have approved the results of the tests performed by EQC: Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).



Jessica Kramer
Project Manager
6/26/2022 7:58:56 PM

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Laboratory Job ID: 820-4663-1
SDG: AR227020

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	7
Surrogate Summary	42
QC Sample Results	46
QC Association Summary	62
Lab Chronicle	74
Certification Summary	88
Method Summary	89
Sample Summary	90
Chain of Custody	91
Receipt Checklists	95

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Job ID: 820-4663-1

Laboratory: Eurofins Lubbock

Narrative

**Job Narrative
820-4663-1**

Receipt

The samples were received on 6/17/2022 10:26 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -8.9°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 880-28066 and analytical batch 880-28003 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: 11 (15'-16') (820-4663-68). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample (LCS) for preparation batch 880-28063 and analytical batch 880-28005 recovered outside control limits for the following analytes: o-Xylene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-28063 and analytical batch 880-28005 was outside control limits. Sample matrix interference is suspected.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (LCS 880-28068/1-A) and (LCSD 880-28068/2-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (820-4663-A-74-C MS) and (820-4663-A-74-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: 12 (10'-11') (820-4663-74) and 12 (15'-16') (820-4663-75). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: 9 (10'-11') (820-4663-53). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-28109 and 880-28109 and analytical batch 880-28093 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: 6 (5'-6') (820-4663-32). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: 6 (10'-11') (820-4663-33). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: 8 (5'-6') (820-4663-46). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: 8 (10'-11') (820-4663-47). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Job ID: 820-4663-1 (Continued)

Laboratory: Eurofins Lubbock (Continued)

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: 10 (15'-16') (820-4663-61), 11 (0'-1') (820-4663-65) and 11 (5'-6') (820-4663-66). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-27962 and 880-27962 and analytical batch 880-28169 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Client Sample ID: 1 (15'-16')

Lab Sample ID: 820-4663-3

Date Collected: 06/16/22 08:55

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/21/22 14:16	06/22/22 00:19	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/21/22 14:16	06/22/22 00:19	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/21/22 14:16	06/22/22 00:19	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		06/21/22 14:16	06/22/22 00:19	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/21/22 14:16	06/22/22 00:19	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/21/22 14:16	06/22/22 00:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	06/21/22 14:16	06/22/22 00:19	1
1,4-Difluorobenzene (Surr)	95		70 - 130	06/21/22 14:16	06/22/22 00:19	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/22/22 12:00	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/21/22 08:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/20/22 08:29	06/20/22 16:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/20/22 08:29	06/20/22 16:24	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/20/22 08:29	06/20/22 16:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	102		70 - 130	06/20/22 08:29	06/20/22 16:24	1
o-Terphenyl (Surr)	109		70 - 130	06/20/22 08:29	06/20/22 16:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	732		50.3		mg/Kg			06/24/22 06:17	10

Client Sample ID: 1 (20'-21')

Lab Sample ID: 820-4663-4

Date Collected: 06/16/22 09:00

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/21/22 14:16	06/22/22 03:44	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/21/22 14:16	06/22/22 03:44	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/21/22 14:16	06/22/22 03:44	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		06/21/22 14:16	06/22/22 03:44	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/21/22 14:16	06/22/22 03:44	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/21/22 14:16	06/22/22 03:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	06/21/22 14:16	06/22/22 03:44	1
1,4-Difluorobenzene (Surr)	97		70 - 130	06/21/22 14:16	06/22/22 03:44	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Client Sample ID: 1 (20'-21')

Lab Sample ID: 820-4663-4

Date Collected: 06/16/22 09:00

Matrix: Solid

Date Received: 06/17/22 10:26

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/22/22 12:00	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/21/22 08:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/20/22 08:29	06/20/22 17:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/20/22 08:29	06/20/22 17:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/20/22 08:29	06/20/22 17:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130				06/20/22 08:29	06/20/22 17:27	1
o-Terphenyl (Surr)	108		70 - 130				06/20/22 08:29	06/20/22 17:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.4		5.02		mg/Kg			06/24/22 06:45	1

Client Sample ID: 1 (25'-26')

Lab Sample ID: 820-4663-5

Date Collected: 06/16/22 09:05

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/22/22 09:54	06/22/22 16:01	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/22/22 09:54	06/22/22 16:01	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/22/22 09:54	06/22/22 16:01	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		06/22/22 09:54	06/22/22 16:01	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/22/22 09:54	06/22/22 16:01	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/22/22 09:54	06/22/22 16:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				06/22/22 09:54	06/22/22 16:01	1
1,4-Difluorobenzene (Surr)	108		70 - 130				06/22/22 09:54	06/22/22 16:01	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/22/22 12:00	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/21/22 08:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/20/22 08:29	06/20/22 17:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/20/22 08:29	06/20/22 17:48	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Client Sample ID: 1 (25'-26')

Lab Sample ID: 820-4663-5

Date Collected: 06/16/22 09:05

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/20/22 08:29	06/20/22 17:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130				06/20/22 08:29	06/20/22 17:48	1
o-Terphenyl (Surr)	108		70 - 130				06/20/22 08:29	06/20/22 17:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2360		50.2		mg/Kg			06/24/22 06:54	10

Client Sample ID: 2 (10'-11')

Lab Sample ID: 820-4663-8

Date Collected: 06/16/22 09:50

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/21/22 14:16	06/22/22 04:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/21/22 14:16	06/22/22 04:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/21/22 14:16	06/22/22 04:25	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		06/21/22 14:16	06/22/22 04:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/21/22 14:16	06/22/22 04:25	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/21/22 14:16	06/22/22 04:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				06/21/22 14:16	06/22/22 04:25	1
1,4-Difluorobenzene (Surr)	81		70 - 130				06/21/22 14:16	06/22/22 04:25	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/22/22 12:00	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/21/22 08:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/20/22 08:29	06/20/22 18:09	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/20/22 08:29	06/20/22 18:09	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/20/22 08:29	06/20/22 18:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	92		70 - 130				06/20/22 08:29	06/20/22 18:09	1
o-Terphenyl (Surr)	100		70 - 130				06/20/22 08:29	06/20/22 18:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1090		25.3		mg/Kg			06/24/22 07:03	5

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Client Sample ID: 2 (15'-16')

Lab Sample ID: 820-4663-9

Date Collected: 06/16/22 09:55

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/21/22 14:16	06/22/22 04:46	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/21/22 14:16	06/22/22 04:46	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/21/22 14:16	06/22/22 04:46	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		06/21/22 14:16	06/22/22 04:46	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/21/22 14:16	06/22/22 04:46	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/21/22 14:16	06/22/22 04:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	06/21/22 14:16	06/22/22 04:46	1
1,4-Difluorobenzene (Surr)	97		70 - 130	06/21/22 14:16	06/22/22 04:46	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/22/22 12:00	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/21/22 08:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/20/22 08:29	06/20/22 18:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/20/22 08:29	06/20/22 18:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/20/22 08:29	06/20/22 18:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130	06/20/22 08:29	06/20/22 18:29	1
o-Terphenyl (Surr)	112		70 - 130	06/20/22 08:29	06/20/22 18:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11500		49.7		mg/Kg			06/24/22 19:22	10

Client Sample ID: 2 (20'-21')

Lab Sample ID: 820-4663-10

Date Collected: 06/16/22 10:00

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/21/22 14:16	06/22/22 05:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/21/22 14:16	06/22/22 05:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/21/22 14:16	06/22/22 05:06	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		06/21/22 14:16	06/22/22 05:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/21/22 14:16	06/22/22 05:06	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/21/22 14:16	06/22/22 05:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	06/21/22 14:16	06/22/22 05:06	1
1,4-Difluorobenzene (Surr)	95		70 - 130	06/21/22 14:16	06/22/22 05:06	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Client Sample ID: 2 (20'-21')

Lab Sample ID: 820-4663-10

Date Collected: 06/16/22 10:00

Matrix: Solid

Date Received: 06/17/22 10:26

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/22/22 12:00	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/21/22 08:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/20/22 08:29	06/20/22 18:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/20/22 08:29	06/20/22 18:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/20/22 08:29	06/20/22 18:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	91		70 - 130				06/20/22 08:29	06/20/22 18:50	1
o-Terphenyl (Surr)	98		70 - 130				06/20/22 08:29	06/20/22 18:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3020		24.8		mg/Kg			06/24/22 07:40	5

Client Sample ID: 2 (25'-26')

Lab Sample ID: 820-4663-11

Date Collected: 06/16/22 10:05

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/21/22 14:16	06/22/22 05:27	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/21/22 14:16	06/22/22 05:27	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/21/22 14:16	06/22/22 05:27	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		06/21/22 14:16	06/22/22 05:27	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/21/22 14:16	06/22/22 05:27	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/21/22 14:16	06/22/22 05:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				06/21/22 14:16	06/22/22 05:27	1
1,4-Difluorobenzene (Surr)	96		70 - 130				06/21/22 14:16	06/22/22 05:27	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/22/22 12:00	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/21/22 08:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/20/22 08:29	06/20/22 19:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/20/22 08:29	06/20/22 19:11	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Client Sample ID: 2 (25'-26')

Lab Sample ID: 820-4663-11

Date Collected: 06/16/22 10:05

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/20/22 08:29	06/20/22 19:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130				06/20/22 08:29	06/20/22 19:11	1
o-Terphenyl (Surr)	114		70 - 130				06/20/22 08:29	06/20/22 19:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	317		4.98		mg/Kg			06/24/22 07:50	1

Client Sample ID: 2 (30'-31')

Lab Sample ID: 820-4663-12

Date Collected: 06/16/22 10:10

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/21/22 14:16	06/22/22 05:47	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/21/22 14:16	06/22/22 05:47	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/21/22 14:16	06/22/22 05:47	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		06/21/22 14:16	06/22/22 05:47	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/21/22 14:16	06/22/22 05:47	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		06/21/22 14:16	06/22/22 05:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				06/21/22 14:16	06/22/22 05:47	1
1,4-Difluorobenzene (Surr)	96		70 - 130				06/21/22 14:16	06/22/22 05:47	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			06/22/22 12:00	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/21/22 08:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/20/22 08:29	06/20/22 19:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/20/22 08:29	06/20/22 19:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/20/22 08:29	06/20/22 19:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	91		70 - 130				06/20/22 08:29	06/20/22 19:32	1
o-Terphenyl (Surr)	98		70 - 130				06/20/22 08:29	06/20/22 19:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	289		25.2		mg/Kg			06/24/22 07:59	5

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Client Sample ID: 3 (15'-16')

Lab Sample ID: 820-4663-15

Date Collected: 06/16/22 10:40

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/21/22 14:16	06/22/22 06:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/21/22 14:16	06/22/22 06:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/21/22 14:16	06/22/22 06:08	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		06/21/22 14:16	06/22/22 06:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/21/22 14:16	06/22/22 06:08	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/21/22 14:16	06/22/22 06:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	06/21/22 14:16	06/22/22 06:08	1
1,4-Difluorobenzene (Surr)	95		70 - 130	06/21/22 14:16	06/22/22 06:08	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/22/22 12:00	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/21/22 08:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/20/22 08:29	06/20/22 19:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/20/22 08:29	06/20/22 19:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/20/22 08:29	06/20/22 19:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	105		70 - 130	06/20/22 08:29	06/20/22 19:53	1
o-Terphenyl (Surr)	114		70 - 130	06/20/22 08:29	06/20/22 19:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6830		99.8		mg/Kg			06/24/22 08:08	20

Client Sample ID: 3 (20'-21')

Lab Sample ID: 820-4663-16

Date Collected: 06/16/22 10:45

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/21/22 14:16	06/22/22 06:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/21/22 14:16	06/22/22 06:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/21/22 14:16	06/22/22 06:28	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		06/21/22 14:16	06/22/22 06:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/21/22 14:16	06/22/22 06:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/21/22 14:16	06/22/22 06:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	06/21/22 14:16	06/22/22 06:28	1
1,4-Difluorobenzene (Surr)	83		70 - 130	06/21/22 14:16	06/22/22 06:28	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Client Sample ID: 3 (20'-21')

Lab Sample ID: 820-4663-16

Date Collected: 06/16/22 10:45

Matrix: Solid

Date Received: 06/17/22 10:26

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/22/22 12:00	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	121		50.0		mg/Kg			06/21/22 08:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	121		50.0		mg/Kg		06/20/22 08:29	06/20/22 20:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/20/22 08:29	06/20/22 20:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/20/22 08:29	06/20/22 20:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	106		70 - 130				06/20/22 08:29	06/20/22 20:13	1
o-Terphenyl (Surr)	114		70 - 130				06/20/22 08:29	06/20/22 20:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	193		5.03		mg/Kg			06/24/22 17:03	1

Client Sample ID: 3 (25'-26')

Lab Sample ID: 820-4663-17

Date Collected: 06/16/22 10:50

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/21/22 14:16	06/22/22 06:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/21/22 14:16	06/22/22 06:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/21/22 14:16	06/22/22 06:49	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		06/21/22 14:16	06/22/22 06:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/21/22 14:16	06/22/22 06:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/21/22 14:16	06/22/22 06:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				06/21/22 14:16	06/22/22 06:49	1
1,4-Difluorobenzene (Surr)	90		70 - 130				06/21/22 14:16	06/22/22 06:49	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/22/22 12:00	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	52.0		49.8		mg/Kg			06/21/22 08:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	52.0		49.8		mg/Kg		06/20/22 08:29	06/20/22 20:55	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/20/22 08:29	06/20/22 20:55	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Client Sample ID: 3 (25'-26')

Lab Sample ID: 820-4663-17

Date Collected: 06/16/22 10:50

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/20/22 08:29	06/20/22 20:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	90		70 - 130				06/20/22 08:29	06/20/22 20:55	1
o-Terphenyl (Surr)	98		70 - 130				06/20/22 08:29	06/20/22 20:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	298		25.1		mg/Kg			06/24/22 08:27	5

Client Sample ID: 3 (30'-31')

Lab Sample ID: 820-4663-18

Date Collected: 06/16/22 10:55

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/21/22 14:42	06/22/22 01:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/21/22 14:42	06/22/22 01:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/21/22 14:42	06/22/22 01:56	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		06/21/22 14:42	06/22/22 01:56	1
o-Xylene	<0.00200	U *	0.00200		mg/Kg		06/21/22 14:42	06/22/22 01:56	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/21/22 14:42	06/22/22 01:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				06/21/22 14:42	06/22/22 01:56	1
1,4-Difluorobenzene (Surr)	88		70 - 130				06/21/22 14:42	06/22/22 01:56	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/22/22 12:00	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/21/22 08:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/20/22 08:29	06/20/22 21:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/20/22 08:29	06/20/22 21:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/20/22 08:29	06/20/22 21:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	90		70 - 130				06/20/22 08:29	06/20/22 21:16	1
o-Terphenyl (Surr)	98		70 - 130				06/20/22 08:29	06/20/22 21:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	379		25.1		mg/Kg			06/24/22 08:54	5

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Client Sample ID: 4 (15'-16')

Lab Sample ID: 820-4663-21

Date Collected: 06/16/22 11:35

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/21/22 14:42	06/22/22 02:17	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/21/22 14:42	06/22/22 02:17	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/21/22 14:42	06/22/22 02:17	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		06/21/22 14:42	06/22/22 02:17	1
o-Xylene	<0.00201	U *	0.00201		mg/Kg		06/21/22 14:42	06/22/22 02:17	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/21/22 14:42	06/22/22 02:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	06/21/22 14:42	06/22/22 02:17	1
1,4-Difluorobenzene (Surr)	107		70 - 130	06/21/22 14:42	06/22/22 02:17	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/22/22 12:00	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	52.8		49.9		mg/Kg			06/21/22 08:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	52.8		49.9		mg/Kg		06/20/22 08:29	06/20/22 21:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/20/22 08:29	06/20/22 21:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/20/22 08:29	06/20/22 21:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130				06/20/22 08:29	06/20/22 21:36	1
o-Terphenyl (Surr)	101		70 - 130				06/20/22 08:29	06/20/22 21:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	183		25.1		mg/Kg			06/24/22 09:03	5

Client Sample ID: 4 (20'-21')

Lab Sample ID: 820-4663-22

Date Collected: 06/16/22 11:40

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/21/22 14:42	06/22/22 02:37	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/21/22 14:42	06/22/22 02:37	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/21/22 14:42	06/22/22 02:37	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		06/21/22 14:42	06/22/22 02:37	1
o-Xylene	<0.00202	U *	0.00202		mg/Kg		06/21/22 14:42	06/22/22 02:37	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		06/21/22 14:42	06/22/22 02:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	06/21/22 14:42	06/22/22 02:37	1
1,4-Difluorobenzene (Surr)	104		70 - 130	06/21/22 14:42	06/22/22 02:37	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Client Sample ID: 4 (20'-21')

Lab Sample ID: 820-4663-22

Date Collected: 06/16/22 11:40

Matrix: Solid

Date Received: 06/17/22 10:26

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			06/22/22 12:00	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	54.2		49.9		mg/Kg			06/21/22 08:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	54.2		49.9		mg/Kg		06/20/22 08:29	06/20/22 21:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/20/22 08:29	06/20/22 21:57	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/20/22 08:29	06/20/22 21:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130				06/20/22 08:29	06/20/22 21:57	1
o-Terphenyl (Surr)	103		70 - 130				06/20/22 08:29	06/20/22 21:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	112		4.95		mg/Kg			06/24/22 09:31	1

Client Sample ID: 4 (25'-26')

Lab Sample ID: 820-4663-23

Date Collected: 06/16/22 11:45

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/21/22 14:42	06/22/22 04:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/21/22 14:42	06/22/22 04:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/21/22 14:42	06/22/22 04:02	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		06/21/22 14:42	06/22/22 04:02	1
o-Xylene	<0.00200	U **	0.00200		mg/Kg		06/21/22 14:42	06/22/22 04:02	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/21/22 14:42	06/22/22 04:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				06/21/22 14:42	06/22/22 04:02	1
1,4-Difluorobenzene (Surr)	88		70 - 130				06/21/22 14:42	06/22/22 04:02	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/22/22 12:00	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	150		50.0		mg/Kg			06/21/22 08:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	150		50.0		mg/Kg		06/20/22 08:29	06/20/22 22:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/20/22 08:29	06/20/22 22:17	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Client Sample ID: 4 (25'-26')

Lab Sample ID: 820-4663-23

Date Collected: 06/16/22 11:45

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/20/22 08:29	06/20/22 22:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130				06/20/22 08:29	06/20/22 22:17	1
o-Terphenyl (Surr)	104		70 - 130				06/20/22 08:29	06/20/22 22:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	78.9		5.03		mg/Kg			06/24/22 09:40	1

Client Sample ID: 4 (30'-31')

Lab Sample ID: 820-4663-24

Date Collected: 06/16/22 11:50

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/21/22 14:42	06/22/22 04:22	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/21/22 14:42	06/22/22 04:22	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/21/22 14:42	06/22/22 04:22	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		06/21/22 14:42	06/22/22 04:22	1
o-Xylene	<0.00202	U *	0.00202		mg/Kg		06/21/22 14:42	06/22/22 04:22	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		06/21/22 14:42	06/22/22 04:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				06/21/22 14:42	06/22/22 04:22	1
1,4-Difluorobenzene (Surr)	98		70 - 130				06/21/22 14:42	06/22/22 04:22	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			06/22/22 12:00	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/21/22 08:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/20/22 08:29	06/20/22 22:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/20/22 08:29	06/20/22 22:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/20/22 08:29	06/20/22 22:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	87		70 - 130				06/20/22 08:29	06/20/22 22:38	1
o-Terphenyl (Surr)	93		70 - 130				06/20/22 08:29	06/20/22 22:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	48.8		4.99		mg/Kg			06/24/22 09:50	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Client Sample ID: 5 (15'-16')

Lab Sample ID: 820-4663-27

Date Collected: 06/16/22 12:10

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/21/22 14:42	06/22/22 04:43	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/21/22 14:42	06/22/22 04:43	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/21/22 14:42	06/22/22 04:43	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		06/21/22 14:42	06/22/22 04:43	1
o-Xylene	<0.00202	U *	0.00202		mg/Kg		06/21/22 14:42	06/22/22 04:43	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/21/22 14:42	06/22/22 04:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	06/21/22 14:42	06/22/22 04:43	1
1,4-Difluorobenzene (Surr)	107		70 - 130	06/21/22 14:42	06/22/22 04:43	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			06/22/22 12:00	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	96.0		49.8		mg/Kg			06/21/22 08:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	96.0		49.8		mg/Kg		06/20/22 08:29	06/20/22 23:00	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/20/22 08:29	06/20/22 23:00	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/20/22 08:29	06/20/22 23:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	106		70 - 130				06/20/22 08:29	06/20/22 23:00	1
o-Terphenyl (Surr)	115		70 - 130				06/20/22 08:29	06/20/22 23:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5310		50.2		mg/Kg			06/24/22 09:59	10

Client Sample ID: 5 (20'-21')

Lab Sample ID: 820-4663-28

Date Collected: 06/16/22 12:15

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/21/22 14:42	06/22/22 05:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/21/22 14:42	06/22/22 05:04	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/21/22 14:42	06/22/22 05:04	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		06/21/22 14:42	06/22/22 05:04	1
o-Xylene	<0.00199	U *	0.00199		mg/Kg		06/21/22 14:42	06/22/22 05:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/21/22 14:42	06/22/22 05:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	06/21/22 14:42	06/22/22 05:04	1
1,4-Difluorobenzene (Surr)	106		70 - 130	06/21/22 14:42	06/22/22 05:04	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Client Sample ID: 5 (20'-21')

Lab Sample ID: 820-4663-28

Date Collected: 06/16/22 12:15

Matrix: Solid

Date Received: 06/17/22 10:26

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/22/22 12:00	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	152		50.0		mg/Kg			06/21/22 08:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	152		50.0		mg/Kg		06/20/22 08:29	06/20/22 23:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/20/22 08:29	06/20/22 23:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/20/22 08:29	06/20/22 23:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130				06/20/22 08:29	06/20/22 23:20	1
o-Terphenyl (Surr)	108		70 - 130				06/20/22 08:29	06/20/22 23:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3280		101		mg/Kg			06/24/22 10:08	20

Client Sample ID: 5 (25'-26')

Lab Sample ID: 820-4663-29

Date Collected: 06/16/22 12:20

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/21/22 14:42	06/22/22 05:25	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/21/22 14:42	06/22/22 05:25	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/21/22 14:42	06/22/22 05:25	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		06/21/22 14:42	06/22/22 05:25	1
o-Xylene	<0.00199	U **	0.00199		mg/Kg		06/21/22 14:42	06/22/22 05:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/21/22 14:42	06/22/22 05:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				06/21/22 14:42	06/22/22 05:25	1
1,4-Difluorobenzene (Surr)	94		70 - 130				06/21/22 14:42	06/22/22 05:25	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/22/22 12:00	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	69.5		49.9		mg/Kg			06/21/22 08:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	69.5		49.9		mg/Kg		06/20/22 08:29	06/20/22 23:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/20/22 08:29	06/20/22 23:41	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Client Sample ID: 5 (25'-26')

Lab Sample ID: 820-4663-29

Date Collected: 06/16/22 12:20

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/20/22 08:29	06/20/22 23:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130				06/20/22 08:29	06/20/22 23:41	1
o-Terphenyl (Surr)	108		70 - 130				06/20/22 08:29	06/20/22 23:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	346		5.02		mg/Kg			06/24/22 17:12	1

Client Sample ID: 5 (30'-31')

Lab Sample ID: 820-4663-30

Date Collected: 06/16/22 12:25

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/21/22 14:42	06/22/22 05:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/21/22 14:42	06/22/22 05:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/21/22 14:42	06/22/22 05:45	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		06/21/22 14:42	06/22/22 05:45	1
o-Xylene	<0.00200	U *	0.00200		mg/Kg		06/21/22 14:42	06/22/22 05:45	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/21/22 14:42	06/22/22 05:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				06/21/22 14:42	06/22/22 05:45	1
1,4-Difluorobenzene (Surr)	101		70 - 130				06/21/22 14:42	06/22/22 05:45	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/22/22 12:00	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/21/22 08:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/20/22 08:29	06/21/22 00:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/20/22 08:29	06/21/22 00:01	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/20/22 08:29	06/21/22 00:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	85		70 - 130				06/20/22 08:29	06/21/22 00:01	1
o-Terphenyl (Surr)	95		70 - 130				06/20/22 08:29	06/21/22 00:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	367		25.0		mg/Kg			06/24/22 10:26	5

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Client Sample ID: 6 (0'-1')

Lab Sample ID: 820-4663-31

Date Collected: 06/16/22 12:45

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/21/22 14:42	06/22/22 06:06	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/21/22 14:42	06/22/22 06:06	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/21/22 14:42	06/22/22 06:06	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		06/21/22 14:42	06/22/22 06:06	1
o-Xylene	<0.00199	U *	0.00199		mg/Kg		06/21/22 14:42	06/22/22 06:06	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/21/22 14:42	06/22/22 06:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	06/21/22 14:42	06/22/22 06:06	1
1,4-Difluorobenzene (Surr)	91		70 - 130	06/21/22 14:42	06/22/22 06:06	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/22/22 12:00	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/21/22 08:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/20/22 08:33	06/20/22 16:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/20/22 08:33	06/20/22 16:24	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/20/22 08:33	06/20/22 16:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	116		70 - 130	06/20/22 08:33	06/20/22 16:24	1
o-Terphenyl (Surr)	112		70 - 130	06/20/22 08:33	06/20/22 16:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	101	F1	5.01		mg/Kg			06/23/22 12:16	1

Client Sample ID: 6 (5'-6')

Lab Sample ID: 820-4663-32

Date Collected: 06/16/22 12:50

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/21/22 14:42	06/22/22 06:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/21/22 14:42	06/22/22 06:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/21/22 14:42	06/22/22 06:27	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		06/21/22 14:42	06/22/22 06:27	1
o-Xylene	<0.00200	U *	0.00200		mg/Kg		06/21/22 14:42	06/22/22 06:27	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/21/22 14:42	06/22/22 06:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	06/21/22 14:42	06/22/22 06:27	1
1,4-Difluorobenzene (Surr)	103		70 - 130	06/21/22 14:42	06/22/22 06:27	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Client Sample ID: 6 (5'-6')

Lab Sample ID: 820-4663-32

Date Collected: 06/16/22 12:50

Matrix: Solid

Date Received: 06/17/22 10:26

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/22/22 12:00	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	53.5		50.0		mg/Kg			06/21/22 08:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	53.5		50.0		mg/Kg		06/20/22 08:33	06/20/22 17:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/20/22 08:33	06/20/22 17:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/20/22 08:33	06/20/22 17:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	138	S1+	70 - 130				06/20/22 08:33	06/20/22 17:27	1
o-Terphenyl (Surr)	153	S1+	70 - 130				06/20/22 08:33	06/20/22 17:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	350		24.9		mg/Kg			06/23/22 15:24	5

Client Sample ID: 6 (10'-11')

Lab Sample ID: 820-4663-33

Date Collected: 06/16/22 12:55

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/21/22 14:42	06/22/22 06:47	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/21/22 14:42	06/22/22 06:47	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/21/22 14:42	06/22/22 06:47	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		06/21/22 14:42	06/22/22 06:47	1
o-Xylene	<0.00201	U **	0.00201		mg/Kg		06/21/22 14:42	06/22/22 06:47	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/21/22 14:42	06/22/22 06:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				06/21/22 14:42	06/22/22 06:47	1
1,4-Difluorobenzene (Surr)	98		70 - 130				06/21/22 14:42	06/22/22 06:47	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/22/22 12:00	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/21/22 08:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/20/22 08:33	06/20/22 17:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/20/22 08:33	06/20/22 17:48	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Client Sample ID: 6 (10'-11')

Lab Sample ID: 820-4663-33

Date Collected: 06/16/22 12:55

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/20/22 08:33	06/20/22 17:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	123		70 - 130				06/20/22 08:33	06/20/22 17:48	1
o-Terphenyl (Surr)	132	S1+	70 - 130				06/20/22 08:33	06/20/22 17:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.1		5.02		mg/Kg			06/23/22 15:32	1

Client Sample ID: 7 (0'-1')

Lab Sample ID: 820-4663-38

Date Collected: 06/16/22 13:15

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/21/22 14:42	06/22/22 07:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/21/22 14:42	06/22/22 07:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/21/22 14:42	06/22/22 07:08	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		06/21/22 14:42	06/22/22 07:08	1
o-Xylene	<0.00200	U *	0.00200		mg/Kg		06/21/22 14:42	06/22/22 07:08	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/21/22 14:42	06/22/22 07:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				06/21/22 14:42	06/22/22 07:08	1
1,4-Difluorobenzene (Surr)	88		70 - 130				06/21/22 14:42	06/22/22 07:08	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/22/22 12:00	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/21/22 08:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/20/22 08:33	06/20/22 18:09	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/20/22 08:33	06/20/22 18:09	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/20/22 08:33	06/20/22 18:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	118		70 - 130				06/20/22 08:33	06/20/22 18:09	1
o-Terphenyl (Surr)	116		70 - 130				06/20/22 08:33	06/20/22 18:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	805		4.97		mg/Kg			06/23/22 15:40	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Client Sample ID: 7 (5'-6')

Lab Sample ID: 820-4663-39

Date Collected: 06/16/22 13:20

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U F1	0.00201		mg/Kg		06/21/22 15:03	06/21/22 23:47	1
Toluene	<0.00201	U F1	0.00201		mg/Kg		06/21/22 15:03	06/21/22 23:47	1
Ethylbenzene	<0.00201	U F1	0.00201		mg/Kg		06/21/22 15:03	06/21/22 23:47	1
m,p-Xylenes	<0.00402	U F1	0.00402		mg/Kg		06/21/22 15:03	06/21/22 23:47	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/21/22 15:03	06/21/22 23:47	1
Xylenes, Total	<0.00402	U F1	0.00402		mg/Kg		06/21/22 15:03	06/21/22 23:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	06/21/22 15:03	06/21/22 23:47	1
1,4-Difluorobenzene (Surr)	100		70 - 130	06/21/22 15:03	06/21/22 23:47	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/22/22 12:00	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/21/22 08:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/20/22 08:33	06/20/22 18:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/20/22 08:33	06/20/22 18:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/20/22 08:33	06/20/22 18:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	122		70 - 130	06/20/22 08:33	06/20/22 18:29	1
o-Terphenyl (Surr)	117		70 - 130	06/20/22 08:33	06/20/22 18:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	184		5.04		mg/Kg			06/23/22 16:20	1

Client Sample ID: 7 (10'-11')

Lab Sample ID: 820-4663-40

Date Collected: 06/16/22 13:25

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/21/22 15:03	06/22/22 00:07	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/21/22 15:03	06/22/22 00:07	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/21/22 15:03	06/22/22 00:07	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		06/21/22 15:03	06/22/22 00:07	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/21/22 15:03	06/22/22 00:07	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/21/22 15:03	06/22/22 00:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	06/21/22 15:03	06/22/22 00:07	1
1,4-Difluorobenzene (Surr)	99		70 - 130	06/21/22 15:03	06/22/22 00:07	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Client Sample ID: 7 (10'-11')

Lab Sample ID: 820-4663-40

Date Collected: 06/16/22 13:25

Matrix: Solid

Date Received: 06/17/22 10:26

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			06/22/22 12:00	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/21/22 08:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/20/22 08:33	06/20/22 18:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/20/22 08:33	06/20/22 18:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/20/22 08:33	06/20/22 18:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	125		70 - 130				06/20/22 08:33	06/20/22 18:50	1
o-Terphenyl (Surr)	126		70 - 130				06/20/22 08:33	06/20/22 18:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42.3		5.05		mg/Kg			06/23/22 16:43	1

Client Sample ID: 7 (15'-16')

Lab Sample ID: 820-4663-41

Date Collected: 06/16/22 13:30

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/21/22 15:03	06/22/22 00:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/21/22 15:03	06/22/22 00:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/21/22 15:03	06/22/22 00:27	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		06/21/22 15:03	06/22/22 00:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/21/22 15:03	06/22/22 00:27	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/21/22 15:03	06/22/22 00:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				06/21/22 15:03	06/22/22 00:27	1
1,4-Difluorobenzene (Surr)	96		70 - 130				06/21/22 15:03	06/22/22 00:27	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/22/22 12:00	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/21/22 08:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/20/22 08:33	06/20/22 19:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/20/22 08:33	06/20/22 19:11	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Client Sample ID: 7 (15'-16')

Lab Sample ID: 820-4663-41

Date Collected: 06/16/22 13:30

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/20/22 08:33	06/20/22 19:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	124		70 - 130				06/20/22 08:33	06/20/22 19:11	1
o-Terphenyl (Surr)	125		70 - 130				06/20/22 08:33	06/20/22 19:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	254		25.0		mg/Kg			06/23/22 16:51	5

Client Sample ID: 8 (0'-1')

Lab Sample ID: 820-4663-45

Date Collected: 06/16/22 14:00

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/21/22 15:03	06/22/22 00:48	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/21/22 15:03	06/22/22 00:48	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/21/22 15:03	06/22/22 00:48	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		06/21/22 15:03	06/22/22 00:48	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/21/22 15:03	06/22/22 00:48	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/21/22 15:03	06/22/22 00:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				06/21/22 15:03	06/22/22 00:48	1
1,4-Difluorobenzene (Surr)	95		70 - 130				06/21/22 15:03	06/22/22 00:48	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/22/22 12:00	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/21/22 08:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/20/22 08:33	06/20/22 19:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/20/22 08:33	06/20/22 19:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/20/22 08:33	06/20/22 19:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	114		70 - 130				06/20/22 08:33	06/20/22 19:32	1
o-Terphenyl (Surr)	112		70 - 130				06/20/22 08:33	06/20/22 19:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1100		5.02		mg/Kg			06/23/22 20:22	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Client Sample ID: 8 (5'-6')

Lab Sample ID: 820-4663-46

Date Collected: 06/16/22 14:05

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/21/22 15:03	06/22/22 01:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/21/22 15:03	06/22/22 01:08	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/21/22 15:03	06/22/22 01:08	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		06/21/22 15:03	06/22/22 01:08	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/21/22 15:03	06/22/22 01:08	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/21/22 15:03	06/22/22 01:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	06/21/22 15:03	06/22/22 01:08	1
1,4-Difluorobenzene (Surr)	101		70 - 130	06/21/22 15:03	06/22/22 01:08	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/22/22 12:00	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/21/22 08:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/20/22 08:33	06/20/22 19:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/20/22 08:33	06/20/22 19:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/20/22 08:33	06/20/22 19:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	131	S1+	70 - 130	06/20/22 08:33	06/20/22 19:53	1
o-Terphenyl (Surr)	135	S1+	70 - 130	06/20/22 08:33	06/20/22 19:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	347		5.00		mg/Kg			06/23/22 20:30	1

Client Sample ID: 8 (10'-11')

Lab Sample ID: 820-4663-47

Date Collected: 06/16/22 14:15

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/21/22 15:03	06/22/22 01:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/21/22 15:03	06/22/22 01:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/21/22 15:03	06/22/22 01:29	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		06/21/22 15:03	06/22/22 01:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/21/22 15:03	06/22/22 01:29	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/21/22 15:03	06/22/22 01:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	06/21/22 15:03	06/22/22 01:29	1
1,4-Difluorobenzene (Surr)	96		70 - 130	06/21/22 15:03	06/22/22 01:29	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Client Sample ID: 8 (10'-11')

Lab Sample ID: 820-4663-47

Date Collected: 06/16/22 14:15

Matrix: Solid

Date Received: 06/17/22 10:26

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/22/22 12:00	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/21/22 08:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/20/22 08:33	06/20/22 20:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/20/22 08:33	06/20/22 20:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/20/22 08:33	06/20/22 20:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	130		70 - 130				06/20/22 08:33	06/20/22 20:13	1
o-Terphenyl (Surr)	140	S1+	70 - 130				06/20/22 08:33	06/20/22 20:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42.9		5.03		mg/Kg			06/23/22 20:38	1

Client Sample ID: 8 (15'-16')

Lab Sample ID: 820-4663-48

Date Collected: 06/16/22 14:20

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/21/22 15:03	06/22/22 01:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/21/22 15:03	06/22/22 01:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/21/22 15:03	06/22/22 01:49	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		06/21/22 15:03	06/22/22 01:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/21/22 15:03	06/22/22 01:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/21/22 15:03	06/22/22 01:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				06/21/22 15:03	06/22/22 01:49	1
1,4-Difluorobenzene (Surr)	91		70 - 130				06/21/22 15:03	06/22/22 01:49	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/22/22 12:00	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/21/22 08:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/20/22 08:33	06/20/22 20:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/20/22 08:33	06/20/22 20:55	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Client Sample ID: 8 (15'-16')

Lab Sample ID: 820-4663-48

Date Collected: 06/16/22 14:20

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/20/22 08:33	06/20/22 20:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	93		70 - 130				06/20/22 08:33	06/20/22 20:55	1
o-Terphenyl (Surr)	93		70 - 130				06/20/22 08:33	06/20/22 20:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38.9	F1	4.96		mg/Kg			06/23/22 20:46	1

Client Sample ID: 9 (5'-6')

Lab Sample ID: 820-4663-52

Date Collected: 06/16/22 14:55

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/21/22 15:03	06/22/22 02:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/21/22 15:03	06/22/22 02:10	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/21/22 15:03	06/22/22 02:10	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		06/21/22 15:03	06/22/22 02:10	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/21/22 15:03	06/22/22 02:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/21/22 15:03	06/22/22 02:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				06/21/22 15:03	06/22/22 02:10	1
1,4-Difluorobenzene (Surr)	96		70 - 130				06/21/22 15:03	06/22/22 02:10	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/22/22 12:00	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/21/22 08:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/20/22 08:33	06/20/22 21:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/20/22 08:33	06/20/22 21:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/20/22 08:33	06/20/22 21:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	129		70 - 130				06/20/22 08:33	06/20/22 21:16	1
o-Terphenyl (Surr)	126		70 - 130				06/20/22 08:33	06/20/22 21:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1180		5.04		mg/Kg			06/23/22 21:09	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Client Sample ID: 9 (10'-11')

Lab Sample ID: 820-4663-53

Date Collected: 06/16/22 15:00

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/21/22 15:03	06/22/22 02:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/21/22 15:03	06/22/22 02:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/21/22 15:03	06/22/22 02:30	1
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		06/21/22 15:03	06/22/22 02:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/21/22 15:03	06/22/22 02:30	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/21/22 15:03	06/22/22 02:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	68	S1-	70 - 130	06/21/22 15:03	06/22/22 02:30	1
1,4-Difluorobenzene (Surr)	83		70 - 130	06/21/22 15:03	06/22/22 02:30	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/22/22 12:00	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/21/22 08:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/20/22 08:33	06/20/22 21:36	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/20/22 08:33	06/20/22 21:36	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/20/22 08:33	06/20/22 21:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	113		70 - 130	06/20/22 08:33	06/20/22 21:36	1
o-Terphenyl (Surr)	114		70 - 130	06/20/22 08:33	06/20/22 21:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	550		50.3		mg/Kg			06/23/22 21:17	10

Client Sample ID: 9 (15'-16')

Lab Sample ID: 820-4663-54

Date Collected: 06/16/22 15:05

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/21/22 15:03	06/22/22 02:51	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/21/22 15:03	06/22/22 02:51	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/21/22 15:03	06/22/22 02:51	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		06/21/22 15:03	06/22/22 02:51	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/21/22 15:03	06/22/22 02:51	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/21/22 15:03	06/22/22 02:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	06/21/22 15:03	06/22/22 02:51	1
1,4-Difluorobenzene (Surr)	96		70 - 130	06/21/22 15:03	06/22/22 02:51	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Client Sample ID: 9 (15'-16')

Lab Sample ID: 820-4663-54

Date Collected: 06/16/22 15:05

Matrix: Solid

Date Received: 06/17/22 10:26

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/22/22 12:00	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/21/22 08:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/20/22 08:33	06/20/22 21:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/20/22 08:33	06/20/22 21:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/20/22 08:33	06/20/22 21:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	115		70 - 130				06/20/22 08:33	06/20/22 21:57	1
o-Terphenyl (Surr)	119		70 - 130				06/20/22 08:33	06/20/22 21:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42.5		5.04		mg/Kg			06/23/22 21:41	1

Client Sample ID: 10 (0'-1')

Lab Sample ID: 820-4663-58

Date Collected: 06/16/22 15:30

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/21/22 15:03	06/22/22 04:41	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/21/22 15:03	06/22/22 04:41	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/21/22 15:03	06/22/22 04:41	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		06/21/22 15:03	06/22/22 04:41	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/21/22 15:03	06/22/22 04:41	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		06/21/22 15:03	06/22/22 04:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				06/21/22 15:03	06/22/22 04:41	1
1,4-Difluorobenzene (Surr)	100		70 - 130				06/21/22 15:03	06/22/22 04:41	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			06/22/22 12:00	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/21/22 08:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/20/22 08:33	06/20/22 22:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/20/22 08:33	06/20/22 22:17	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Client Sample ID: 10 (0'-1')

Lab Sample ID: 820-4663-58

Date Collected: 06/16/22 15:30

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/20/22 08:33	06/20/22 22:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101		70 - 130				06/20/22 08:33	06/20/22 22:17	1
o-Terphenyl (Surr)	97		70 - 130				06/20/22 08:33	06/20/22 22:17	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	630		25.1		mg/Kg			06/23/22 21:49	5

Client Sample ID: 10 (5'-6')

Lab Sample ID: 820-4663-59

Date Collected: 06/16/22 15:35

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/21/22 15:03	06/22/22 05:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/21/22 15:03	06/22/22 05:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/21/22 15:03	06/22/22 05:01	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		06/21/22 15:03	06/22/22 05:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/21/22 15:03	06/22/22 05:01	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/21/22 15:03	06/22/22 05:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				06/21/22 15:03	06/22/22 05:01	1
1,4-Difluorobenzene (Surr)	99		70 - 130				06/21/22 15:03	06/22/22 05:01	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/22/22 12:00	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/21/22 08:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/20/22 08:33	06/20/22 22:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/20/22 08:33	06/20/22 22:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/20/22 08:33	06/20/22 22:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	124		70 - 130				06/20/22 08:33	06/20/22 22:38	1
o-Terphenyl (Surr)	126		70 - 130				06/20/22 08:33	06/20/22 22:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	575		50.5		mg/Kg			06/23/22 21:57	10

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Client Sample ID: 10 (10'-11')

Lab Sample ID: 820-4663-60

Date Collected: 06/16/22 15:40

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/21/22 15:03	06/22/22 05:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/21/22 15:03	06/22/22 05:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/21/22 15:03	06/22/22 05:22	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		06/21/22 15:03	06/22/22 05:22	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/21/22 15:03	06/22/22 05:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/21/22 15:03	06/22/22 05:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	06/21/22 15:03	06/22/22 05:22	1
1,4-Difluorobenzene (Surr)	99		70 - 130	06/21/22 15:03	06/22/22 05:22	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/22/22 12:00	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/21/22 08:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/20/22 08:33	06/20/22 23:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/20/22 08:33	06/20/22 23:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/20/22 08:33	06/20/22 23:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	111		70 - 130	06/20/22 08:33	06/20/22 23:00	1
o-Terphenyl (Surr)	112		70 - 130	06/20/22 08:33	06/20/22 23:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42.0		5.05		mg/Kg			06/23/22 22:04	1

Client Sample ID: 10 (15'-16')

Lab Sample ID: 820-4663-61

Date Collected: 06/16/22 15:45

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/21/22 15:03	06/22/22 05:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/21/22 15:03	06/22/22 05:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/21/22 15:03	06/22/22 05:42	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		06/21/22 15:03	06/22/22 05:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/21/22 15:03	06/22/22 05:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/21/22 15:03	06/22/22 05:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	06/21/22 15:03	06/22/22 05:42	1
1,4-Difluorobenzene (Surr)	96		70 - 130	06/21/22 15:03	06/22/22 05:42	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Client Sample ID: 10 (15'-16')

Lab Sample ID: 820-4663-61

Date Collected: 06/16/22 15:45

Matrix: Solid

Date Received: 06/17/22 10:26

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/22/22 12:00	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/21/22 08:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/20/22 08:33	06/20/22 23:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/20/22 08:33	06/20/22 23:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/20/22 08:33	06/20/22 23:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	117		70 - 130				06/20/22 08:33	06/20/22 23:20	1
o-Terphenyl (Surr)	131	S1+	70 - 130				06/20/22 08:33	06/20/22 23:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.9		4.97		mg/Kg			06/23/22 22:12	1

Client Sample ID: 11 (0'-1')

Lab Sample ID: 820-4663-65

Date Collected: 06/16/22 16:00

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/21/22 15:03	06/22/22 06:03	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/21/22 15:03	06/22/22 06:03	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/21/22 15:03	06/22/22 06:03	1
m,p-Xylenes	<0.00397	U	0.00397		mg/Kg		06/21/22 15:03	06/22/22 06:03	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/21/22 15:03	06/22/22 06:03	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		06/21/22 15:03	06/22/22 06:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				06/21/22 15:03	06/22/22 06:03	1
1,4-Difluorobenzene (Surr)	94		70 - 130				06/21/22 15:03	06/22/22 06:03	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			06/22/22 12:00	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/21/22 08:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/20/22 08:33	06/20/22 23:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/20/22 08:33	06/20/22 23:41	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Client Sample ID: 11 (0'-1')

Lab Sample ID: 820-4663-65

Date Collected: 06/16/22 16:00

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/20/22 08:33	06/20/22 23:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	126		70 - 130				06/20/22 08:33	06/20/22 23:41	1
o-Terphenyl (Surr)	140	S1+	70 - 130				06/20/22 08:33	06/20/22 23:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	734		49.5		mg/Kg			06/23/22 22:20	10

Client Sample ID: 11 (5'-6')

Lab Sample ID: 820-4663-66

Date Collected: 06/16/22 16:05

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/21/22 15:03	06/22/22 06:23	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/21/22 15:03	06/22/22 06:23	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/21/22 15:03	06/22/22 06:23	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		06/21/22 15:03	06/22/22 06:23	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/21/22 15:03	06/22/22 06:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/21/22 15:03	06/22/22 06:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				06/21/22 15:03	06/22/22 06:23	1
1,4-Difluorobenzene (Surr)	95		70 - 130				06/21/22 15:03	06/22/22 06:23	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/22/22 12:00	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/21/22 08:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/20/22 08:33	06/21/22 00:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/20/22 08:33	06/21/22 00:01	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/20/22 08:33	06/21/22 00:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	121		70 - 130				06/20/22 08:33	06/21/22 00:01	1
o-Terphenyl (Surr)	132	S1+	70 - 130				06/20/22 08:33	06/21/22 00:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.8		5.04		mg/Kg			06/23/22 22:28	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Client Sample ID: 11 (10'-11')

Lab Sample ID: 820-4663-67

Date Collected: 06/16/22 16:10

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/21/22 15:03	06/22/22 06:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/21/22 15:03	06/22/22 06:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/21/22 15:03	06/22/22 06:43	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		06/21/22 15:03	06/22/22 06:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/21/22 15:03	06/22/22 06:43	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/21/22 15:03	06/22/22 06:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	06/21/22 15:03	06/22/22 06:43	1
1,4-Difluorobenzene (Surr)	98		70 - 130	06/21/22 15:03	06/22/22 06:43	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/22/22 12:00	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/21/22 08:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/20/22 16:19	06/21/22 06:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/20/22 16:19	06/21/22 06:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/20/22 16:19	06/21/22 06:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		70 - 130	06/20/22 16:19	06/21/22 06:18	1
o-Terphenyl (Surr)	111		70 - 130	06/20/22 16:19	06/21/22 06:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	344		5.01		mg/Kg			06/24/22 11:40	1

Client Sample ID: 11 (15'-16')

Lab Sample ID: 820-4663-68

Date Collected: 06/16/22 16:15

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/21/22 15:03	06/22/22 07:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/21/22 15:03	06/22/22 07:04	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/21/22 15:03	06/22/22 07:04	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		06/21/22 15:03	06/22/22 07:04	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/21/22 15:03	06/22/22 07:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/21/22 15:03	06/22/22 07:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130	06/21/22 15:03	06/22/22 07:04	1
1,4-Difluorobenzene (Surr)	112		70 - 130	06/21/22 15:03	06/22/22 07:04	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Client Sample ID: 11 (15'-16')

Lab Sample ID: 820-4663-68

Date Collected: 06/16/22 16:15

Matrix: Solid

Date Received: 06/17/22 10:26

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/22/22 12:00	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/21/22 08:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/20/22 16:19	06/21/22 07:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/20/22 16:19	06/21/22 07:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/20/22 16:19	06/21/22 07:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130				06/20/22 16:19	06/21/22 07:23	1
o-Terphenyl (Surr)	105		70 - 130				06/20/22 16:19	06/21/22 07:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	419		5.02		mg/Kg			06/24/22 12:08	1

Client Sample ID: 12 (0'-1')

Lab Sample ID: 820-4663-72

Date Collected: 06/16/22 17:00

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/21/22 15:03	06/22/22 07:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/21/22 15:03	06/22/22 07:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/21/22 15:03	06/22/22 07:24	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		06/21/22 15:03	06/22/22 07:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/21/22 15:03	06/22/22 07:24	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/21/22 15:03	06/22/22 07:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				06/21/22 15:03	06/22/22 07:24	1
1,4-Difluorobenzene (Surr)	101		70 - 130				06/21/22 15:03	06/22/22 07:24	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/22/22 12:00	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/21/22 08:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/20/22 16:19	06/21/22 07:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/20/22 16:19	06/21/22 07:44	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Client Sample ID: 12 (0'-1')

Lab Sample ID: 820-4663-72

Date Collected: 06/16/22 17:00

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/20/22 16:19	06/21/22 07:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	90		70 - 130				06/20/22 16:19	06/21/22 07:44	1
o-Terphenyl (Surr)	90		70 - 130				06/20/22 16:19	06/21/22 07:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	99.0		5.02		mg/Kg			06/24/22 12:17	1

Client Sample ID: 12 (5'-6')

Lab Sample ID: 820-4663-73

Date Collected: 06/16/22 17:05

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/21/22 15:03	06/22/22 07:45	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/21/22 15:03	06/22/22 07:45	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/21/22 15:03	06/22/22 07:45	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		06/21/22 15:03	06/22/22 07:45	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/21/22 15:03	06/22/22 07:45	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/21/22 15:03	06/22/22 07:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				06/21/22 15:03	06/22/22 07:45	1
1,4-Difluorobenzene (Surr)	97		70 - 130				06/21/22 15:03	06/22/22 07:45	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/22/22 12:00	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/21/22 08:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/20/22 16:19	06/21/22 08:06	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/20/22 16:19	06/21/22 08:06	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/20/22 16:19	06/21/22 08:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130				06/20/22 16:19	06/21/22 08:06	1
o-Terphenyl (Surr)	103		70 - 130				06/20/22 16:19	06/21/22 08:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	466		5.02		mg/Kg			06/24/22 12:26	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Client Sample ID: 12 (10'-11')

Lab Sample ID: 820-4663-74

Date Collected: 06/16/22 17:10

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/21/22 15:28	06/22/22 03:11	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/21/22 15:28	06/22/22 03:11	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/21/22 15:28	06/22/22 03:11	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		06/21/22 15:28	06/22/22 03:11	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/21/22 15:28	06/22/22 03:11	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/21/22 15:28	06/22/22 03:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130	06/21/22 15:28	06/22/22 03:11	1
1,4-Difluorobenzene (Surr)	91		70 - 130	06/21/22 15:28	06/22/22 03:11	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/22/22 12:00	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/21/22 08:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/20/22 16:19	06/21/22 08:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/20/22 16:19	06/21/22 08:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/20/22 16:19	06/21/22 08:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	113		70 - 130	06/20/22 16:19	06/21/22 08:28	1
o-Terphenyl (Surr)	120		70 - 130	06/20/22 16:19	06/21/22 08:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	581		5.00		mg/Kg			06/24/22 12:35	1

Client Sample ID: 12 (15'-16')

Lab Sample ID: 820-4663-75

Date Collected: 06/16/22 17:15

Matrix: Solid

Date Received: 06/17/22 10:26

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/21/22 15:28	06/22/22 03:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/21/22 15:28	06/22/22 03:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/21/22 15:28	06/22/22 03:38	1
m,p-Xylenes	<0.00399	U	0.00399		mg/Kg		06/21/22 15:28	06/22/22 03:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/21/22 15:28	06/22/22 03:38	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/21/22 15:28	06/22/22 03:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	152	S1+	70 - 130	06/21/22 15:28	06/22/22 03:38	1
1,4-Difluorobenzene (Surr)	92		70 - 130	06/21/22 15:28	06/22/22 03:38	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Client Sample ID: 12 (15'-16')

Lab Sample ID: 820-4663-75

Date Collected: 06/16/22 17:15

Matrix: Solid

Date Received: 06/17/22 10:26

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/22/22 12:00	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/21/22 08:57	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/20/22 16:19	06/21/22 05:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/20/22 16:19	06/21/22 05:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/20/22 16:19	06/21/22 05:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	96		70 - 130				06/20/22 16:19	06/21/22 05:15	1
o-Terphenyl (Surr)	101		70 - 130				06/20/22 16:19	06/21/22 05:15	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	547		5.01		mg/Kg			06/24/22 13:03	1

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
820-4663-3	1 (15'-16')	114	95
820-4663-4	1 (20'-21')	114	97
820-4663-5	1 (25'-26')	94	108
820-4663-8	2 (10'-11')	106	81
820-4663-9	2 (15'-16')	118	97
820-4663-10	2 (20'-21')	119	95
820-4663-11	2 (25'-26')	116	96
820-4663-12	2 (30'-31')	117	96
820-4663-15	3 (15'-16')	120	95
820-4663-16	3 (20'-21')	101	83
820-4663-17	3 (25'-26')	116	90
820-4663-18	3 (30'-31')	103	88
820-4663-21	4 (15'-16')	96	107
820-4663-22	4 (20'-21')	99	104
820-4663-23	4 (25'-26')	96	88
820-4663-24	4 (30'-31')	101	98
820-4663-27	5 (15'-16')	97	107
820-4663-28	5 (20'-21')	96	106
820-4663-29	5 (25'-26')	109	94
820-4663-30	5 (30'-31')	92	101
820-4663-31	6 (0'-1')	108	91
820-4663-32	6 (5'-6')	100	103
820-4663-33	6 (10'-11')	114	98
820-4663-38	7 (0'-1')	101	88
820-4663-39	7 (5'-6')	109	100
820-4663-39 MS	7 (5'-6')	101	93
820-4663-39 MSD	7 (5'-6')	102	93
820-4663-40	7 (10'-11')	105	99
820-4663-41	7 (15'-16')	107	96
820-4663-45	8 (0'-1')	97	95
820-4663-46	8 (5'-6')	105	101
820-4663-47	8 (10'-11')	102	96
820-4663-48	8 (15'-16')	109	91
820-4663-52	9 (5'-6')	100	96
820-4663-53	9 (10'-11')	68 S1-	83
820-4663-54	9 (15'-16')	102	96
820-4663-58	10 (0'-1')	115	100
820-4663-59	10 (5'-6')	101	99
820-4663-60	10 (10'-11')	102	99
820-4663-61	10 (15'-16')	106	96
820-4663-65	11 (0'-1')	101	94
820-4663-66	11 (5'-6')	109	95
820-4663-67	11 (10'-11')	101	98
820-4663-68	11 (15'-16')	139 S1+	112
820-4663-72	12 (0'-1')	106	101
820-4663-73	12 (5'-6')	103	97
820-4663-74	12 (10'-11')	139 S1+	91
820-4663-74 MS	12 (10'-11')	132 S1+	94
820-4663-74 MSD	12 (10'-11')	139 S1+	97

Eurofins Lubbock

Surrogate Summary

Client: Terracon Consulting Eng & Scientists

Job ID: 820-4663-1

Project/Site: JR Horz Release

SDG: AR227020

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
820-4663-75	12 (15'-16')	152 S1+	92
880-16057-A-1-C MS	Matrix Spike	111	100
880-16057-A-1-D MSD	Matrix Spike Duplicate	110	98
880-16170-A-2-B MS	Matrix Spike	89	107
880-16170-A-2-C MSD	Matrix Spike Duplicate	90	109
890-2426-A-1-C MS	Matrix Spike	110	99
890-2426-A-1-D MSD	Matrix Spike Duplicate	91	93
LCS 880-28059/1-A	Lab Control Sample	110	100
LCS 880-28063/1-A	Lab Control Sample	121	100
LCS 880-28066/1-A	Lab Control Sample	96	98
LCS 880-28068/1-A	Lab Control Sample	135 S1+	94
LCS 880-28109/1-A	Lab Control Sample	84	104
LCSD 880-28059/2-A	Lab Control Sample Dup	111	101
LCSD 880-28063/2-A	Lab Control Sample Dup	110	104
LCSD 880-28066/2-A	Lab Control Sample Dup	102	95
LCSD 880-28068/2-A	Lab Control Sample Dup	137 S1+	85
LCSD 880-28109/2-A	Lab Control Sample Dup	114	100
MB 880-27967/5-A	Method Blank	93	110
MB 880-27986/5-A	Method Blank	101	90
MB 880-27988/5-A	Method Blank	100	87
MB 880-28003/8	Method Blank	94	99
MB 880-28059/5-A	Method Blank	100	87
MB 880-28063/5-A	Method Blank	95	107
MB 880-28066/5-A	Method Blank	96	95
MB 880-28068/5-A	Method Blank	104	85
MB 880-28109/5-A	Method Blank	89	108

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
820-4663-3	1 (15'-16')	102	109
820-4663-3 MS	1 (15'-16')	97	93
820-4663-3 MSD	1 (15'-16')	96	90
820-4663-4	1 (20'-21')	99	108
820-4663-5	1 (25'-26')	101	108
820-4663-8	2 (10'-11')	92	100
820-4663-9	2 (15'-16')	103	112
820-4663-10	2 (20'-21')	91	98
820-4663-11	2 (25'-26')	105	114
820-4663-12	2 (30'-31')	91	98
820-4663-15	3 (15'-16')	105	114
820-4663-16	3 (20'-21')	106	114
820-4663-17	3 (25'-26')	90	98
820-4663-18	3 (30'-31')	90	98

Eurofins Lubbock

Surrogate Summary

Client: Terracon Consulting Eng & Scientists

Job ID: 820-4663-1

Project/Site: JR Horz Release

SDG: AR227020

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
820-4663-21	4 (15'-16')	94	101
820-4663-22	4 (20'-21')	96	103
820-4663-23	4 (25'-26')	96	104
820-4663-24	4 (30'-31')	87	93
820-4663-27	5 (15'-16')	106	115
820-4663-28	5 (20'-21')	101	108
820-4663-29	5 (25'-26')	96	108
820-4663-30	5 (30'-31')	85	95
820-4663-31	6 (0'-1')	116	112
820-4663-31 MS	6 (0'-1')	107	97
820-4663-31 MSD	6 (0'-1')	108	98
820-4663-32	6 (5'-6')	138 S1+	153 S1+
820-4663-33	6 (10'-11')	123	132 S1+
820-4663-38	7 (0'-1')	118	116
820-4663-39	7 (5'-6')	122	117
820-4663-40	7 (10'-11')	125	126
820-4663-41	7 (15'-16')	124	125
820-4663-45	8 (0'-1')	114	112
820-4663-46	8 (5'-6')	131 S1+	135 S1+
820-4663-47	8 (10'-11')	130	140 S1+
820-4663-48	8 (15'-16')	93	93
820-4663-52	9 (5'-6')	129	126
820-4663-53	9 (10'-11')	113	114
820-4663-54	9 (15'-16')	115	119
820-4663-58	10 (0'-1')	101	97
820-4663-59	10 (5'-6')	124	126
820-4663-60	10 (10'-11')	111	112
820-4663-61	10 (15'-16')	117	131 S1+
820-4663-65	11 (0'-1')	126	140 S1+
820-4663-66	11 (5'-6')	121	132 S1+
820-4663-67	11 (10'-11')	99	111
820-4663-67 MS	11 (10'-11')	88	89
820-4663-67 MSD	11 (10'-11')	106	106
820-4663-68	11 (15'-16')	97	105
820-4663-72	12 (0'-1')	90	90
820-4663-73	12 (5'-6')	96	103
820-4663-74	12 (10'-11')	113	120
820-4663-75	12 (15'-16')	96	101
LCS 880-27880/2-A	Lab Control Sample	89	86
LCS 880-27882/2-A	Lab Control Sample	118	109
LCS 880-27985/2-A	Lab Control Sample	109	117
LCSD 880-27880/3-A	Lab Control Sample Dup	85	84
LCSD 880-27882/3-A	Lab Control Sample Dup	110	99
LCSD 880-27985/3-A	Lab Control Sample Dup	90	99
MB 880-27880/1-A	Method Blank	85	91
MB 880-27882/1-A	Method Blank	112	124
MB 880-27985/1-A	Method Blank	97	107

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

Eurofins Lubbock

Surrogate Summary

Client: Terracon Consulting Eng & Scientists

Project/Site: JR Horz Release

OTPH = o-Terphenyl (Surr)

Job ID: 820-4663-1

SDG: AR227020

1

2

3

4

5

6

7

8

9

10

11

12

13

14

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-27967/5-A

Matrix: Solid

Analysis Batch: 28005

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 27967

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/20/22 15:20	06/21/22 12:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/20/22 15:20	06/21/22 12:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/20/22 15:20	06/21/22 12:25	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		06/20/22 15:20	06/21/22 12:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/20/22 15:20	06/21/22 12:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/20/22 15:20	06/21/22 12:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	06/20/22 15:20	06/21/22 12:25	1
1,4-Difluorobenzene (Surr)	110		70 - 130	06/20/22 15:20	06/21/22 12:25	1

Lab Sample ID: MB 880-27986/5-A

Matrix: Solid

Analysis Batch: 28004

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 27986

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/20/22 16:31	06/21/22 12:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/20/22 16:31	06/21/22 12:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/20/22 16:31	06/21/22 12:20	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		06/20/22 16:31	06/21/22 12:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/20/22 16:31	06/21/22 12:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/20/22 16:31	06/21/22 12:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	06/20/22 16:31	06/21/22 12:20	1
1,4-Difluorobenzene (Surr)	90		70 - 130	06/20/22 16:31	06/21/22 12:20	1

Lab Sample ID: MB 880-27988/5-A

Matrix: Solid

Analysis Batch: 28002

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 27988

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/20/22 16:40	06/21/22 13:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/20/22 16:40	06/21/22 13:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/20/22 16:40	06/21/22 13:16	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		06/20/22 16:40	06/21/22 13:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/20/22 16:40	06/21/22 13:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/20/22 16:40	06/21/22 13:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	06/20/22 16:40	06/21/22 13:16	1
1,4-Difluorobenzene (Surr)	87		70 - 130	06/20/22 16:40	06/21/22 13:16	1

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-28003/8

Matrix: Solid

Analysis Batch: 28003

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg			06/21/22 11:40	1
Toluene	<0.00200	U	0.00200		mg/Kg			06/21/22 11:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg			06/21/22 11:40	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg			06/21/22 11:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg			06/21/22 11:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg			06/21/22 11:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130		06/21/22 11:40	1
1,4-Difluorobenzene (Surr)	99		70 - 130		06/21/22 11:40	1

Lab Sample ID: MB 880-28059/5-A

Matrix: Solid

Analysis Batch: 28004

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28059

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/21/22 14:16	06/21/22 22:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/21/22 14:16	06/21/22 22:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/21/22 14:16	06/21/22 22:56	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		06/21/22 14:16	06/21/22 22:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/21/22 14:16	06/21/22 22:56	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/21/22 14:16	06/21/22 22:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	06/21/22 14:16	06/21/22 22:56	1
1,4-Difluorobenzene (Surr)	87		70 - 130	06/21/22 14:16	06/21/22 22:56	1

Lab Sample ID: LCS 880-28059/1-A

Matrix: Solid

Analysis Batch: 28004

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 28059

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1176		mg/Kg		118	70 - 130
Toluene	0.100	0.1133		mg/Kg		113	70 - 130
Ethylbenzene	0.100	0.1180		mg/Kg		118	70 - 130
m,p-Xylenes	0.200	0.2431		mg/Kg		122	70 - 130
o-Xylene	0.100	0.1224		mg/Kg		122	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-28059/2-A

Matrix: Solid

Analysis Batch: 28004

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 28059

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1121		mg/Kg		112	70 - 130	5	35

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-28059/2-A

Matrix: Solid

Analysis Batch: 28004

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 28059

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.1071		mg/Kg		107	70 - 130	6	35
Ethylbenzene	0.100	0.1118		mg/Kg		112	70 - 130	5	35
m,p-Xylenes	0.200	0.2303		mg/Kg		115	70 - 130	5	35
o-Xylene	0.100	0.1161		mg/Kg		116	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-16057-A-1-C MS

Matrix: Solid

Analysis Batch: 28004

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 28059

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0998	0.09167		mg/Kg		91	70 - 130
Toluene	<0.00199	U	0.0998	0.08933		mg/Kg		89	70 - 130
Ethylbenzene	0.00366		0.0998	0.09441		mg/Kg		91	70 - 130
m,p-Xylenes	0.00472		0.200	0.1932		mg/Kg		94	70 - 130
o-Xylene	0.00213		0.0998	0.09623		mg/Kg		94	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-16057-A-1-D MSD

Matrix: Solid

Analysis Batch: 28004

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 28059

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0994	0.09129		mg/Kg		91	70 - 130	0	35
Toluene	<0.00199	U	0.0994	0.08952		mg/Kg		90	70 - 130	0	35
Ethylbenzene	0.00366		0.0994	0.09432		mg/Kg		91	70 - 130	0	35
m,p-Xylenes	0.00472		0.199	0.1929		mg/Kg		95	70 - 130	0	35
o-Xylene	0.00213		0.0994	0.09636		mg/Kg		95	70 - 130	0	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: MB 880-28063/5-A

Matrix: Solid

Analysis Batch: 28005

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28063

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/21/22 14:42	06/21/22 23:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/21/22 14:42	06/21/22 23:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/21/22 14:42	06/21/22 23:09	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		06/21/22 14:42	06/21/22 23:09	1

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-28063/5-A

Matrix: Solid

Analysis Batch: 28005

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28063

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/21/22 14:42	06/21/22 23:09	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/21/22 14:42	06/21/22 23:09	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				06/21/22 14:42	06/21/22 23:09	1
1,4-Difluorobenzene (Surr)	107		70 - 130				06/21/22 14:42	06/21/22 23:09	1

Lab Sample ID: LCS 880-28063/1-A

Matrix: Solid

Analysis Batch: 28005

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 28063

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09845		mg/Kg		98	70 - 130
Toluene	0.100	0.1157		mg/Kg		116	70 - 130
Ethylbenzene	0.100	0.1118		mg/Kg		112	70 - 130
m,p-Xylenes	0.200	0.2330		mg/Kg		117	70 - 130
o-Xylene	0.100	0.1311	*+	mg/Kg		131	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	121		70 - 130				
1,4-Difluorobenzene (Surr)	100		70 - 130				

Lab Sample ID: LCSD 880-28063/2-A

Matrix: Solid

Analysis Batch: 28005

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 28063

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1045		mg/Kg		105	70 - 130	6	35
Toluene	0.100	0.1127		mg/Kg		113	70 - 130	3	35
Ethylbenzene	0.100	0.1015		mg/Kg		102	70 - 130	10	35
m,p-Xylenes	0.200	0.2046		mg/Kg		102	70 - 130	13	35
o-Xylene	0.100	0.1150		mg/Kg		115	70 - 130	13	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	110		70 - 130						
1,4-Difluorobenzene (Surr)	104		70 - 130						

Lab Sample ID: 890-2426-A-1-C MS

Matrix: Solid

Analysis Batch: 28005

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 28063

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U F1	0.100	0.07404		mg/Kg		74	70 - 130
Toluene	<0.00199	U F1	0.100	0.07758		mg/Kg		77	70 - 130
Ethylbenzene	<0.00199	U F1	0.100	0.06116	F1	mg/Kg		61	70 - 130
m,p-Xylenes	<0.00398	U F1	0.200	0.1209	F1	mg/Kg		60	70 - 130
o-Xylene	<0.00199	U F1 *+	0.100	0.06788	F1	mg/Kg		68	70 - 130

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-2426-A-1-C MS

Matrix: Solid

Analysis Batch: 28005

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 28063

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-2426-A-1-D MSD

Matrix: Solid

Analysis Batch: 28005

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 28063

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.100	0.06494	F1	mg/Kg		65	70 - 130	13	35
Toluene	<0.00199	U F1	0.100	0.06696	F1	mg/Kg		67	70 - 130	15	35
Ethylbenzene	<0.00199	U F1	0.100	0.04899	F1	mg/Kg		49	70 - 130	22	35
m,p-Xylenes	<0.00398	U F1	0.201	0.09419	F1	mg/Kg		47	70 - 130	25	35
o-Xylene	<0.00199	U F1 *+	0.100	0.05296	F1	mg/Kg		53	70 - 130	25	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: MB 880-28066/5-A

Matrix: Solid

Analysis Batch: 28003

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28066

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/21/22 15:03	06/21/22 23:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/21/22 15:03	06/21/22 23:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/21/22 15:03	06/21/22 23:18	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		06/21/22 15:03	06/21/22 23:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/21/22 15:03	06/21/22 23:18	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/21/22 15:03	06/21/22 23:18	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	06/21/22 15:03	06/21/22 23:18	1
1,4-Difluorobenzene (Surr)	95		70 - 130	06/21/22 15:03	06/21/22 23:18	1

Lab Sample ID: LCS 880-28066/1-A

Matrix: Solid

Analysis Batch: 28003

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 28066

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07672		mg/Kg		77	70 - 130
Toluene	0.100	0.07538		mg/Kg		75	70 - 130
Ethylbenzene	0.100	0.07956		mg/Kg		80	70 - 130
m,p-Xylenes	0.200	0.1600		mg/Kg		80	70 - 130
o-Xylene	0.100	0.09024		mg/Kg		90	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-28066/1-A

Matrix: Solid

Analysis Batch: 28003

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 28066

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 880-28066/2-A

Matrix: Solid

Analysis Batch: 28003

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 28066

	LCS	LCS							%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit		
Benzene	0.100	0.07597		mg/Kg		76	70 - 130	1	35		
Toluene	0.100	0.08218		mg/Kg		82	70 - 130	9	35		
Ethylbenzene	0.100	0.09012		mg/Kg		90	70 - 130	12	35		
m,p-Xylenes	0.200	0.1837		mg/Kg		92	70 - 130	14	35		
o-Xylene	0.100	0.1021		mg/Kg		102	70 - 130	12	35		

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 820-4663-39 MS

Matrix: Solid

Analysis Batch: 28003

Client Sample ID: 7 (5'-6')

Prep Type: Total/NA

Prep Batch: 28066

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	<0.00201	U F1	0.100	0.06401	F1	mg/Kg		64	70 - 130		
Toluene	<0.00201	U F1	0.100	0.07139		mg/Kg		71	70 - 130		
Ethylbenzene	<0.00201	U F1	0.100	0.07651		mg/Kg		76	70 - 130		
m,p-Xylenes	<0.00402	U F1	0.200	0.1555		mg/Kg		78	70 - 130		
o-Xylene	<0.00201	U	0.100	0.08493		mg/Kg		85	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 820-4663-39 MSD

Matrix: Solid

Analysis Batch: 28003

Client Sample ID: 7 (5'-6')

Prep Type: Total/NA

Prep Batch: 28066

	Sample	Sample	Spike	MSD	MSD				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U F1	0.0996	0.05457	F1	mg/Kg		55	70 - 130	16	35
Toluene	<0.00201	U F1	0.0996	0.06153	F1	mg/Kg		62	70 - 130	15	35
Ethylbenzene	<0.00201	U F1	0.0996	0.06501	F1	mg/Kg		65	70 - 130	16	35
m,p-Xylenes	<0.00402	U F1	0.199	0.1324	F1	mg/Kg		66	70 - 130	16	35
o-Xylene	<0.00201	U	0.0996	0.07310		mg/Kg		73	70 - 130	15	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-28068/5-A

Matrix: Solid

Analysis Batch: 28002

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28068

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/21/22 15:28	06/22/22 02:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/21/22 15:28	06/22/22 02:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/21/22 15:28	06/22/22 02:45	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		06/21/22 15:28	06/22/22 02:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/21/22 15:28	06/22/22 02:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/21/22 15:28	06/22/22 02:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	06/21/22 15:28	06/22/22 02:45	1
1,4-Difluorobenzene (Surr)	85		70 - 130	06/21/22 15:28	06/22/22 02:45	1

Lab Sample ID: LCS 880-28068/1-A

Matrix: Solid

Analysis Batch: 28002

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 28068

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1029		mg/Kg		103	70 - 130
Toluene	0.100	0.1051		mg/Kg		105	70 - 130
Ethylbenzene	0.100	0.1113		mg/Kg		111	70 - 130
m,p-Xylenes	0.200	0.2225		mg/Kg		111	70 - 130
o-Xylene	0.100	0.1117		mg/Kg		112	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: LCSD 880-28068/2-A

Matrix: Solid

Analysis Batch: 28002

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 28068

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1071		mg/Kg		107	70 - 130	4	35
Toluene	0.100	0.1109		mg/Kg		111	70 - 130	5	35
Ethylbenzene	0.100	0.1153		mg/Kg		115	70 - 130	4	35
m,p-Xylenes	0.200	0.2294		mg/Kg		115	70 - 130	3	35
o-Xylene	0.100	0.1143		mg/Kg		114	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

Lab Sample ID: 820-4663-74 MS

Matrix: Solid

Analysis Batch: 28002

Client Sample ID: 12 (10'-11')

Prep Type: Total/NA

Prep Batch: 28068

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.100	0.07173		mg/Kg		72	70 - 130
Toluene	<0.00201	U	0.100	0.07389		mg/Kg		74	70 - 130

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 820-4663-74 MS

Matrix: Solid

Analysis Batch: 28002

Client Sample ID: 12 (10'-11')

Prep Type: Total/NA

Prep Batch: 28068

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.100	0.07931		mg/Kg		79	70 - 130
m,p-Xylenes	<0.00402	U	0.200	0.1564		mg/Kg		78	70 - 130
o-Xylene	<0.00201	U	0.100	0.07677		mg/Kg		77	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 820-4663-74 MSD

Matrix: Solid

Analysis Batch: 28002

Client Sample ID: 12 (10'-11')

Prep Type: Total/NA

Prep Batch: 28068

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0996	0.08913		mg/Kg		89	70 - 130	22	35
Toluene	<0.00201	U	0.0996	0.09006		mg/Kg		90	70 - 130	20	35
Ethylbenzene	<0.00201	U	0.0996	0.09277		mg/Kg		93	70 - 130	16	35
m,p-Xylenes	<0.00402	U	0.199	0.1817		mg/Kg		91	70 - 130	15	35
o-Xylene	<0.00201	U	0.0996	0.09147		mg/Kg		92	70 - 130	17	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	139	S1+	70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: MB 880-28109/5-A

Matrix: Solid

Analysis Batch: 28093

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28109

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/22/22 09:54	06/22/22 15:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/22/22 09:54	06/22/22 15:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/22/22 09:54	06/22/22 15:18	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		06/22/22 09:54	06/22/22 15:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/22/22 09:54	06/22/22 15:18	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/22/22 09:54	06/22/22 15:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	06/22/22 09:54	06/22/22 15:18	1
1,4-Difluorobenzene (Surr)	108		70 - 130	06/22/22 09:54	06/22/22 15:18	1

Lab Sample ID: LCS 880-28109/1-A

Matrix: Solid

Analysis Batch: 28093

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 28109

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1111		mg/Kg		111	70 - 130
Toluene	0.100	0.09953		mg/Kg		100	70 - 130
Ethylbenzene	0.100	0.08342		mg/Kg		83	70 - 130
m,p-Xylenes	0.200	0.1608		mg/Kg		80	70 - 130

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-28109/1-A

Matrix: Solid

Analysis Batch: 28093

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 28109

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.08874		mg/Kg		89	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	84		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-28109/2-A

Matrix: Solid

Analysis Batch: 28093

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 28109

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09307		mg/Kg		93	70 - 130	18	35
Toluene	0.100	0.1074		mg/Kg		107	70 - 130	8	35
Ethylbenzene	0.100	0.1046		mg/Kg		105	70 - 130	22	35
m,p-Xylenes	0.200	0.2178		mg/Kg		109	70 - 130	30	35
o-Xylene	0.100	0.1207		mg/Kg		121	70 - 130	31	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-16170-A-2-B MS

Matrix: Solid

Analysis Batch: 28093

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 28109

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.0998	0.08502		mg/Kg		85	70 - 130
Toluene	<0.00202	U	0.0998	0.07700		mg/Kg		77	70 - 130
Ethylbenzene	<0.00202	U F1	0.0998	0.06401	F1	mg/Kg		64	70 - 130
m,p-Xylenes	<0.00403	U F1	0.200	0.1238	F1	mg/Kg		62	70 - 130
o-Xylene	<0.00202	U	0.0998	0.07016		mg/Kg		70	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 880-16170-A-2-C MSD

Matrix: Solid

Analysis Batch: 28093

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 28109

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.101	0.1023		mg/Kg		101	70 - 130	18	35
Toluene	<0.00202	U	0.101	0.08979		mg/Kg		89	70 - 130	15	35
Ethylbenzene	<0.00202	U F1	0.101	0.07376		mg/Kg		73	70 - 130	14	35
m,p-Xylenes	<0.00403	U F1	0.202	0.1398	F1	mg/Kg		69	70 - 130	12	35
o-Xylene	<0.00202	U	0.101	0.07887		mg/Kg		78	70 - 130	12	35

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-16170-A-2-C MSD

Matrix: Solid

Analysis Batch: 28093

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 28109

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-27880/1-A

Matrix: Solid

Analysis Batch: 27893

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 27880

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/20/22 08:29	06/20/22 15:21	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/20/22 08:29	06/20/22 15:21	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/20/22 08:29	06/20/22 15:21	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil	Fac
1-Chlorooctane (Surr)	85		70 - 130				06/20/22 08:29	06/20/22 15:21	1	
o-Terphenyl (Surr)	91		70 - 130				06/20/22 08:29	06/20/22 15:21	1	

Lab Sample ID: LCS 880-27880/2-A

Matrix: Solid

Analysis Batch: 27893

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 27880

	Spike	LCS	LCS					%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Gasoline Range Organics (GRO)-C6-C10	1000	1064		mg/Kg		106	70 - 130			
Diesel Range Organics (Over C10-C28)	1000	952.4		mg/Kg		95	70 - 130			
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane (Surr)	89		70 - 130							
o-Terphenyl (Surr)	86		70 - 130							

Lab Sample ID: LCSD 880-27880/3-A

Matrix: Solid

Analysis Batch: 27893

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 27880

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	1000	926.4		mg/Kg		93	70 - 130	14	20	
Diesel Range Organics (Over C10-C28)	1000	859.3		mg/Kg		86	70 - 130	10	20	
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane (Surr)	85		70 - 130							
o-Terphenyl (Surr)	84		70 - 130							

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 820-4663-3 MS

Matrix: Solid

Analysis Batch: 27893

Client Sample ID: 1 (15'-16')

Prep Type: Total/NA

Prep Batch: 27880

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1036		mg/Kg		104	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	763.8		mg/Kg		77	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane (Surr)	97		70 - 130						
o-Terphenyl (Surr)	93		70 - 130						

Lab Sample ID: 820-4663-3 MSD

Matrix: Solid

Analysis Batch: 27893

Client Sample ID: 1 (15'-16')

Prep Type: Total/NA

Prep Batch: 27880

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1060		mg/Kg		106	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	754.5		mg/Kg		76	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane (Surr)	96		70 - 130								
o-Terphenyl (Surr)	90		70 - 130								

Lab Sample ID: MB 880-27882/1-A

Matrix: Solid

Analysis Batch: 27904

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 27882

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/20/22 08:33	06/20/22 15:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/20/22 08:33	06/20/22 15:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/20/22 08:33	06/20/22 15:21	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	112		70 - 130				06/20/22 08:33	06/20/22 15:21	1
o-Terphenyl (Surr)	124		70 - 130				06/20/22 08:33	06/20/22 15:21	1

Lab Sample ID: LCS 880-27882/2-A

Matrix: Solid

Analysis Batch: 27904

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 27882

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	932.0		mg/Kg		93	70 - 130
Diesel Range Organics (Over C10-C28)	1000	933.7		mg/Kg		93	70 - 130

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-27882/2-A

Matrix: Solid

Analysis Batch: 27904

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 27882

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	118		70 - 130
o-Terphenyl (Surr)	109		70 - 130

Lab Sample ID: LCSD 880-27882/3-A

Matrix: Solid

Analysis Batch: 27904

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 27882

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1099		mg/Kg		110	70 - 130	16	20
Diesel Range Organics (Over C10-C28)	1000	844.0		mg/Kg		84	70 - 130	10	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	110		70 - 130
o-Terphenyl (Surr)	99		70 - 130

Lab Sample ID: 820-4663-31 MS

Matrix: Solid

Analysis Batch: 27904

Client Sample ID: 6 (0'-1')

Prep Type: Total/NA

Prep Batch: 27882

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1033		mg/Kg		101	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	998	884.6		mg/Kg		89	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	107		70 - 130
o-Terphenyl (Surr)	97		70 - 130

Lab Sample ID: 820-4663-31 MSD

Matrix: Solid

Analysis Batch: 27904

Client Sample ID: 6 (0'-1')

Prep Type: Total/NA

Prep Batch: 27882

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1059		mg/Kg		104	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	902.3		mg/Kg		90	70 - 130	2	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	108		70 - 130
o-Terphenyl (Surr)	98		70 - 130

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-27985/1-A

Matrix: Solid

Analysis Batch: 27889

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 27985

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/20/22 16:19	06/21/22 05:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/20/22 16:19	06/21/22 05:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/20/22 16:19	06/21/22 05:15	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		70 - 130				06/20/22 16:19	06/21/22 05:15	1
o-Terphenyl (Surr)	107		70 - 130				06/20/22 16:19	06/21/22 05:15	1

Lab Sample ID: LCS 880-27985/2-A

Matrix: Solid

Analysis Batch: 27889

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 27985

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1025		mg/Kg		103	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1086		mg/Kg		109	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane (Surr)	109		70 - 130				
o-Terphenyl (Surr)	117		70 - 130				

Lab Sample ID: LCSD 880-27985/3-A

Matrix: Solid

Analysis Batch: 27889

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 27985

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1170		mg/Kg		117	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	1000	900.9		mg/Kg		90	70 - 130	19	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane (Surr)	90		70 - 130						
o-Terphenyl (Surr)	99		70 - 130						

Lab Sample ID: 820-4663-67 MS

Matrix: Solid

Analysis Batch: 27889

Client Sample ID: 11 (10'-11')

Prep Type: Total/NA

Prep Batch: 27985

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	930.6		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	884.1		mg/Kg		87	70 - 130

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 820-4663-67 MS

Matrix: Solid

Analysis Batch: 27889

Client Sample ID: 11 (10'-11')

Prep Type: Total/NA

Prep Batch: 27985

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	88		70 - 130
o-Terphenyl (Surr)	89		70 - 130

Lab Sample ID: 820-4663-67 MSD

Matrix: Solid

Analysis Batch: 27889

Client Sample ID: 11 (10'-11')

Prep Type: Total/NA

Prep Batch: 27985

	Sample	Sample	Spike	MSD	MSD				%Rec	RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1108		mg/Kg		108	70 - 130	17
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1084		mg/Kg		107	70 - 130	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	106		70 - 130
o-Terphenyl (Surr)	106		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-27962/1-A

Matrix: Solid

Analysis Batch: 28169

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/23/22 11:52	1

Lab Sample ID: LCS 880-27962/2-A

Matrix: Solid

Analysis Batch: 28169

Client Sample ID: Lab Control Sample

Prep Type: Soluble

			Spike	LCS	LCS				
Analyte			Added	Result	Qualifier	Unit	D	%Rec	%Rec Limits
Chloride			250	260.0		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-27962/3-A

Matrix: Solid

Analysis Batch: 28169

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

	Spike	LCSD	LCSD					%Rec	RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	262.3		mg/Kg		105	90 - 110	1	20

Lab Sample ID: 820-4663-31 MS

Matrix: Solid

Analysis Batch: 28169

Client Sample ID: 6 (0'-1')

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Chloride	101	F1	251	309.3	F1	mg/Kg		83	90 - 110

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 820-4663-31 MSD

Matrix: Solid

Analysis Batch: 28169

Client Sample ID: 6 (0'-1')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	101	F1	251	311.8	F1	mg/Kg		84	90 - 110	1	20

Lab Sample ID: 820-4663-48 MS

Matrix: Solid

Analysis Batch: 28169

Client Sample ID: 8 (15'-16')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	38.9	F1	248	246.0	F1	mg/Kg		84	90 - 110		

Lab Sample ID: 820-4663-48 MSD

Matrix: Solid

Analysis Batch: 28169

Client Sample ID: 8 (15'-16')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	38.9	F1	248	245.9	F1	mg/Kg		83	90 - 110	0	20

Lab Sample ID: MB 880-27963/1-A

Matrix: Solid

Analysis Batch: 28185

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/24/22 11:13	1

Lab Sample ID: LCS 880-27963/2-A

Matrix: Solid

Analysis Batch: 28185

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	250	272.5		mg/Kg		109	90 - 110		

Lab Sample ID: LCSD 880-27963/3-A

Matrix: Solid

Analysis Batch: 28185

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	274.8		mg/Kg		110	90 - 110	1	20

Lab Sample ID: 820-4663-67 MS

Matrix: Solid

Analysis Batch: 28185

Client Sample ID: 11 (10'-11')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	344		251	600.1		mg/Kg		102	90 - 110		

Lab Sample ID: 820-4663-67 MSD

Matrix: Solid

Analysis Batch: 28185

Client Sample ID: 11 (10'-11')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	344		251	601.1		mg/Kg		103	90 - 110	0	20

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-27961/1-A

Matrix: Solid

Analysis Batch: 28187

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/24/22 05:50	1

Lab Sample ID: LCS 880-27961/2-A

Matrix: Solid

Analysis Batch: 28187

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	273.2		mg/Kg		109	90 - 110

Lab Sample ID: LCSD 880-27961/3-A

Matrix: Solid

Analysis Batch: 28187

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	272.7		mg/Kg		109	90 - 110	0	20

Lab Sample ID: 820-4663-3 MS

Matrix: Solid

Analysis Batch: 28187

Client Sample ID: 1 (15'-16')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	732		2520	3456		mg/Kg		108	90 - 110

Lab Sample ID: 820-4663-3 MSD

Matrix: Solid

Analysis Batch: 28187

Client Sample ID: 1 (15'-16')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	732		2520	3441		mg/Kg		108	90 - 110	0	20

Lab Sample ID: 820-4663-17 MS

Matrix: Solid

Analysis Batch: 28187

Client Sample ID: 3 (25'-26')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	298		1260	1434		mg/Kg		91	90 - 110

Lab Sample ID: 820-4663-17 MSD

Matrix: Solid

Analysis Batch: 28187

Client Sample ID: 3 (25'-26')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	298		1260	1434		mg/Kg		91	90 - 110	0	20

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

GC VOA

Prep Batch: 27967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-27967/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 27986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-27986/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 27988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-27988/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 28002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4663-74	12 (10'-11')	Total/NA	Solid	8021B	28068
820-4663-75	12 (15'-16')	Total/NA	Solid	8021B	28068
MB 880-27988/5-A	Method Blank	Total/NA	Solid	8021B	27988
MB 880-28068/5-A	Method Blank	Total/NA	Solid	8021B	28068
LCS 880-28068/1-A	Lab Control Sample	Total/NA	Solid	8021B	28068
LCSD 880-28068/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	28068
820-4663-74 MS	12 (10'-11')	Total/NA	Solid	8021B	28068
820-4663-74 MSD	12 (10'-11')	Total/NA	Solid	8021B	28068

Analysis Batch: 28003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4663-39	7 (5'-6')	Total/NA	Solid	8021B	28066
820-4663-40	7 (10'-11')	Total/NA	Solid	8021B	28066
820-4663-41	7 (15'-16')	Total/NA	Solid	8021B	28066
820-4663-45	8 (0'-1')	Total/NA	Solid	8021B	28066
820-4663-46	8 (5'-6')	Total/NA	Solid	8021B	28066
820-4663-47	8 (10'-11')	Total/NA	Solid	8021B	28066
820-4663-48	8 (15'-16')	Total/NA	Solid	8021B	28066
820-4663-52	9 (5'-6')	Total/NA	Solid	8021B	28066
820-4663-53	9 (10'-11')	Total/NA	Solid	8021B	28066
820-4663-54	9 (15'-16')	Total/NA	Solid	8021B	28066
820-4663-58	10 (0'-1')	Total/NA	Solid	8021B	28066
820-4663-59	10 (5'-6')	Total/NA	Solid	8021B	28066
820-4663-60	10 (10'-11')	Total/NA	Solid	8021B	28066
820-4663-61	10 (15'-16')	Total/NA	Solid	8021B	28066
820-4663-65	11 (0'-1')	Total/NA	Solid	8021B	28066
820-4663-66	11 (5'-6')	Total/NA	Solid	8021B	28066
820-4663-67	11 (10'-11')	Total/NA	Solid	8021B	28066
820-4663-68	11 (15'-16')	Total/NA	Solid	8021B	28066
820-4663-72	12 (0'-1')	Total/NA	Solid	8021B	28066
820-4663-73	12 (5'-6')	Total/NA	Solid	8021B	28066
MB 880-28003/8	Method Blank	Total/NA	Solid	8021B	
MB 880-28066/5-A	Method Blank	Total/NA	Solid	8021B	28066
LCS 880-28066/1-A	Lab Control Sample	Total/NA	Solid	8021B	28066
LCSD 880-28066/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	28066
820-4663-39 MS	7 (5'-6')	Total/NA	Solid	8021B	28066
820-4663-39 MSD	7 (5'-6')	Total/NA	Solid	8021B	28066

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

GC VOA

Analysis Batch: 28004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4663-3	1 (15'-16')	Total/NA	Solid	8021B	28059
820-4663-4	1 (20'-21')	Total/NA	Solid	8021B	28059
820-4663-8	2 (10'-11')	Total/NA	Solid	8021B	28059
820-4663-9	2 (15'-16')	Total/NA	Solid	8021B	28059
820-4663-10	2 (20'-21')	Total/NA	Solid	8021B	28059
820-4663-11	2 (25'-26')	Total/NA	Solid	8021B	28059
820-4663-12	2 (30'-31')	Total/NA	Solid	8021B	28059
820-4663-15	3 (15'-16')	Total/NA	Solid	8021B	28059
820-4663-16	3 (20'-21')	Total/NA	Solid	8021B	28059
820-4663-17	3 (25'-26')	Total/NA	Solid	8021B	28059
MB 880-27986/5-A	Method Blank	Total/NA	Solid	8021B	27986
MB 880-28059/5-A	Method Blank	Total/NA	Solid	8021B	28059
LCS 880-28059/1-A	Lab Control Sample	Total/NA	Solid	8021B	28059
LCSD 880-28059/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	28059
880-16057-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	28059
880-16057-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	28059

Analysis Batch: 28005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4663-18	3 (30'-31')	Total/NA	Solid	8021B	28063
820-4663-21	4 (15'-16')	Total/NA	Solid	8021B	28063
820-4663-22	4 (20'-21')	Total/NA	Solid	8021B	28063
820-4663-23	4 (25'-26')	Total/NA	Solid	8021B	28063
820-4663-24	4 (30'-31')	Total/NA	Solid	8021B	28063
820-4663-27	5 (15'-16')	Total/NA	Solid	8021B	28063
820-4663-28	5 (20'-21')	Total/NA	Solid	8021B	28063
820-4663-29	5 (25'-26')	Total/NA	Solid	8021B	28063
820-4663-30	5 (30'-31')	Total/NA	Solid	8021B	28063
820-4663-31	6 (0'-1')	Total/NA	Solid	8021B	28063
820-4663-32	6 (5'-6')	Total/NA	Solid	8021B	28063
820-4663-33	6 (10'-11')	Total/NA	Solid	8021B	28063
820-4663-38	7 (0'-1')	Total/NA	Solid	8021B	28063
MB 880-27967/5-A	Method Blank	Total/NA	Solid	8021B	27967
MB 880-28063/5-A	Method Blank	Total/NA	Solid	8021B	28063
LCS 880-28063/1-A	Lab Control Sample	Total/NA	Solid	8021B	28063
LCSD 880-28063/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	28063
890-2426-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	28063
890-2426-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	28063

Prep Batch: 28059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4663-3	1 (15'-16')	Total/NA	Solid	5035	
820-4663-4	1 (20'-21')	Total/NA	Solid	5035	
820-4663-8	2 (10'-11')	Total/NA	Solid	5035	
820-4663-9	2 (15'-16')	Total/NA	Solid	5035	
820-4663-10	2 (20'-21')	Total/NA	Solid	5035	
820-4663-11	2 (25'-26')	Total/NA	Solid	5035	
820-4663-12	2 (30'-31')	Total/NA	Solid	5035	
820-4663-15	3 (15'-16')	Total/NA	Solid	5035	
820-4663-16	3 (20'-21')	Total/NA	Solid	5035	
820-4663-17	3 (25'-26')	Total/NA	Solid	5035	

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

GC VOA (Continued)

Prep Batch: 28059 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-28059/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-28059/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-28059/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-16057-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-16057-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 28063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4663-18	3 (30'-31')	Total/NA	Solid	5035	
820-4663-21	4 (15'-16')	Total/NA	Solid	5035	
820-4663-22	4 (20'-21')	Total/NA	Solid	5035	
820-4663-23	4 (25'-26')	Total/NA	Solid	5035	
820-4663-24	4 (30'-31')	Total/NA	Solid	5035	
820-4663-27	5 (15'-16')	Total/NA	Solid	5035	
820-4663-28	5 (20'-21')	Total/NA	Solid	5035	
820-4663-29	5 (25'-26')	Total/NA	Solid	5035	
820-4663-30	5 (30'-31')	Total/NA	Solid	5035	
820-4663-31	6 (0'-1')	Total/NA	Solid	5035	
820-4663-32	6 (5'-6')	Total/NA	Solid	5035	
820-4663-33	6 (10'-11')	Total/NA	Solid	5035	
820-4663-38	7 (0'-1')	Total/NA	Solid	5035	
MB 880-28063/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-28063/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-28063/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2426-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-2426-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 28066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4663-39	7 (5'-6')	Total/NA	Solid	5035	
820-4663-40	7 (10'-11')	Total/NA	Solid	5035	
820-4663-41	7 (15'-16')	Total/NA	Solid	5035	
820-4663-45	8 (0'-1')	Total/NA	Solid	5035	
820-4663-46	8 (5'-6')	Total/NA	Solid	5035	
820-4663-47	8 (10'-11')	Total/NA	Solid	5035	
820-4663-48	8 (15'-16')	Total/NA	Solid	5035	
820-4663-52	9 (5'-6')	Total/NA	Solid	5035	
820-4663-53	9 (10'-11')	Total/NA	Solid	5035	
820-4663-54	9 (15'-16')	Total/NA	Solid	5035	
820-4663-58	10 (0'-1')	Total/NA	Solid	5035	
820-4663-59	10 (5'-6')	Total/NA	Solid	5035	
820-4663-60	10 (10'-11')	Total/NA	Solid	5035	
820-4663-61	10 (15'-16')	Total/NA	Solid	5035	
820-4663-65	11 (0'-1')	Total/NA	Solid	5035	
820-4663-66	11 (5'-6')	Total/NA	Solid	5035	
820-4663-67	11 (10'-11')	Total/NA	Solid	5035	
820-4663-68	11 (15'-16')	Total/NA	Solid	5035	
820-4663-72	12 (0'-1')	Total/NA	Solid	5035	
820-4663-73	12 (5'-6')	Total/NA	Solid	5035	
MB 880-28066/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-28066/1-A	Lab Control Sample	Total/NA	Solid	5035	

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

GC VOA (Continued)

Prep Batch: 28066 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-28066/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
820-4663-39 MS	7 (5'-6')	Total/NA	Solid	5035	
820-4663-39 MSD	7 (5'-6')	Total/NA	Solid	5035	

Prep Batch: 28068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4663-74	12 (10'-11')	Total/NA	Solid	5035	
820-4663-75	12 (15'-16')	Total/NA	Solid	5035	
MB 880-28068/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-28068/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-28068/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
820-4663-74 MS	12 (10'-11')	Total/NA	Solid	5035	
820-4663-74 MSD	12 (10'-11')	Total/NA	Solid	5035	

Analysis Batch: 28093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4663-5	1 (25'-26')	Total/NA	Solid	8021B	28109
MB 880-28109/5-A	Method Blank	Total/NA	Solid	8021B	28109
LCS 880-28109/1-A	Lab Control Sample	Total/NA	Solid	8021B	28109
LCSD 880-28109/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	28109
880-16170-A-2-B MS	Matrix Spike	Total/NA	Solid	8021B	28109
880-16170-A-2-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	28109

Prep Batch: 28109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4663-5	1 (25'-26')	Total/NA	Solid	5035	
MB 880-28109/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-28109/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-28109/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-16170-A-2-B MS	Matrix Spike	Total/NA	Solid	5035	
880-16170-A-2-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 28139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4663-3	1 (15'-16')	Total/NA	Solid	Total BTEX	
820-4663-4	1 (20'-21')	Total/NA	Solid	Total BTEX	
820-4663-5	1 (25'-26')	Total/NA	Solid	Total BTEX	
820-4663-8	2 (10'-11')	Total/NA	Solid	Total BTEX	
820-4663-9	2 (15'-16')	Total/NA	Solid	Total BTEX	
820-4663-10	2 (20'-21')	Total/NA	Solid	Total BTEX	
820-4663-11	2 (25'-26')	Total/NA	Solid	Total BTEX	
820-4663-12	2 (30'-31')	Total/NA	Solid	Total BTEX	
820-4663-15	3 (15'-16')	Total/NA	Solid	Total BTEX	
820-4663-16	3 (20'-21')	Total/NA	Solid	Total BTEX	
820-4663-17	3 (25'-26')	Total/NA	Solid	Total BTEX	
820-4663-18	3 (30'-31')	Total/NA	Solid	Total BTEX	
820-4663-21	4 (15'-16')	Total/NA	Solid	Total BTEX	
820-4663-22	4 (20'-21')	Total/NA	Solid	Total BTEX	
820-4663-23	4 (25'-26')	Total/NA	Solid	Total BTEX	
820-4663-24	4 (30'-31')	Total/NA	Solid	Total BTEX	
820-4663-27	5 (15'-16')	Total/NA	Solid	Total BTEX	

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

GC VOA (Continued)

Analysis Batch: 28139 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4663-28	5 (20'-21')	Total/NA	Solid	Total BTEX	
820-4663-29	5 (25'-26')	Total/NA	Solid	Total BTEX	
820-4663-30	5 (30'-31')	Total/NA	Solid	Total BTEX	
820-4663-31	6 (0'-1')	Total/NA	Solid	Total BTEX	
820-4663-32	6 (5'-6')	Total/NA	Solid	Total BTEX	
820-4663-33	6 (10'-11')	Total/NA	Solid	Total BTEX	
820-4663-38	7 (0'-1')	Total/NA	Solid	Total BTEX	
820-4663-39	7 (5'-6')	Total/NA	Solid	Total BTEX	
820-4663-40	7 (10'-11')	Total/NA	Solid	Total BTEX	
820-4663-41	7 (15'-16')	Total/NA	Solid	Total BTEX	
820-4663-45	8 (0'-1')	Total/NA	Solid	Total BTEX	
820-4663-46	8 (5'-6')	Total/NA	Solid	Total BTEX	
820-4663-47	8 (10'-11')	Total/NA	Solid	Total BTEX	
820-4663-48	8 (15'-16')	Total/NA	Solid	Total BTEX	
820-4663-52	9 (5'-6')	Total/NA	Solid	Total BTEX	
820-4663-53	9 (10'-11')	Total/NA	Solid	Total BTEX	
820-4663-54	9 (15'-16')	Total/NA	Solid	Total BTEX	
820-4663-58	10 (0'-1')	Total/NA	Solid	Total BTEX	
820-4663-59	10 (5'-6')	Total/NA	Solid	Total BTEX	
820-4663-60	10 (10'-11')	Total/NA	Solid	Total BTEX	
820-4663-61	10 (15'-16')	Total/NA	Solid	Total BTEX	
820-4663-65	11 (0'-1')	Total/NA	Solid	Total BTEX	
820-4663-66	11 (5'-6')	Total/NA	Solid	Total BTEX	
820-4663-67	11 (10'-11')	Total/NA	Solid	Total BTEX	
820-4663-68	11 (15'-16')	Total/NA	Solid	Total BTEX	
820-4663-72	12 (0'-1')	Total/NA	Solid	Total BTEX	
820-4663-73	12 (5'-6')	Total/NA	Solid	Total BTEX	
820-4663-74	12 (10'-11')	Total/NA	Solid	Total BTEX	
820-4663-75	12 (15'-16')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 27880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4663-3	1 (15'-16')	Total/NA	Solid	8015NM Prep	
820-4663-4	1 (20'-21')	Total/NA	Solid	8015NM Prep	
820-4663-5	1 (25'-26')	Total/NA	Solid	8015NM Prep	
820-4663-8	2 (10'-11')	Total/NA	Solid	8015NM Prep	
820-4663-9	2 (15'-16')	Total/NA	Solid	8015NM Prep	
820-4663-10	2 (20'-21')	Total/NA	Solid	8015NM Prep	
820-4663-11	2 (25'-26')	Total/NA	Solid	8015NM Prep	
820-4663-12	2 (30'-31')	Total/NA	Solid	8015NM Prep	
820-4663-15	3 (15'-16')	Total/NA	Solid	8015NM Prep	
820-4663-16	3 (20'-21')	Total/NA	Solid	8015NM Prep	
820-4663-17	3 (25'-26')	Total/NA	Solid	8015NM Prep	
820-4663-18	3 (30'-31')	Total/NA	Solid	8015NM Prep	
820-4663-21	4 (15'-16')	Total/NA	Solid	8015NM Prep	
820-4663-22	4 (20'-21')	Total/NA	Solid	8015NM Prep	
820-4663-23	4 (25'-26')	Total/NA	Solid	8015NM Prep	
820-4663-24	4 (30'-31')	Total/NA	Solid	8015NM Prep	
820-4663-27	5 (15'-16')	Total/NA	Solid	8015NM Prep	

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

GC Semi VOA (Continued)

Prep Batch: 27880 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4663-28	5 (20'-21')	Total/NA	Solid	8015NM Prep	
820-4663-29	5 (25'-26')	Total/NA	Solid	8015NM Prep	
820-4663-30	5 (30'-31')	Total/NA	Solid	8015NM Prep	
MB 880-27880/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-27880/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-27880/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
820-4663-3 MS	1 (15'-16')	Total/NA	Solid	8015NM Prep	
820-4663-3 MSD	1 (15'-16')	Total/NA	Solid	8015NM Prep	

Prep Batch: 27882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4663-31	6 (0'-1')	Total/NA	Solid	8015NM Prep	
820-4663-32	6 (5'-6')	Total/NA	Solid	8015NM Prep	
820-4663-33	6 (10'-11')	Total/NA	Solid	8015NM Prep	
820-4663-38	7 (0'-1')	Total/NA	Solid	8015NM Prep	
820-4663-39	7 (5'-6')	Total/NA	Solid	8015NM Prep	
820-4663-40	7 (10'-11')	Total/NA	Solid	8015NM Prep	
820-4663-41	7 (15'-16')	Total/NA	Solid	8015NM Prep	
820-4663-45	8 (0'-1')	Total/NA	Solid	8015NM Prep	
820-4663-46	8 (5'-6')	Total/NA	Solid	8015NM Prep	
820-4663-47	8 (10'-11')	Total/NA	Solid	8015NM Prep	
820-4663-48	8 (15'-16')	Total/NA	Solid	8015NM Prep	
820-4663-52	9 (5'-6')	Total/NA	Solid	8015NM Prep	
820-4663-53	9 (10'-11')	Total/NA	Solid	8015NM Prep	
820-4663-54	9 (15'-16')	Total/NA	Solid	8015NM Prep	
820-4663-58	10 (0'-1')	Total/NA	Solid	8015NM Prep	
820-4663-59	10 (5'-6')	Total/NA	Solid	8015NM Prep	
820-4663-60	10 (10'-11')	Total/NA	Solid	8015NM Prep	
820-4663-61	10 (15'-16')	Total/NA	Solid	8015NM Prep	
820-4663-65	11 (0'-1')	Total/NA	Solid	8015NM Prep	
820-4663-66	11 (5'-6')	Total/NA	Solid	8015NM Prep	
MB 880-27882/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-27882/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-27882/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
820-4663-31 MS	6 (0'-1')	Total/NA	Solid	8015NM Prep	
820-4663-31 MSD	6 (0'-1')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 27889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4663-67	11 (10'-11')	Total/NA	Solid	8015B NM	27985
820-4663-68	11 (15'-16')	Total/NA	Solid	8015B NM	27985
820-4663-72	12 (0'-1')	Total/NA	Solid	8015B NM	27985
820-4663-73	12 (5'-6')	Total/NA	Solid	8015B NM	27985
820-4663-74	12 (10'-11')	Total/NA	Solid	8015B NM	27985
MB 880-27985/1-A	Method Blank	Total/NA	Solid	8015B NM	27985
LCS 880-27985/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	27985
LCSD 880-27985/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	27985
820-4663-67 MS	11 (10'-11')	Total/NA	Solid	8015B NM	27985
820-4663-67 MSD	11 (10'-11')	Total/NA	Solid	8015B NM	27985

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

GC Semi VOA

Analysis Batch: 27891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4663-75	12 (15'-16')	Total/NA	Solid	8015B NM	27985

Analysis Batch: 27893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4663-3	1 (15'-16')	Total/NA	Solid	8015B NM	27880
820-4663-4	1 (20'-21')	Total/NA	Solid	8015B NM	27880
820-4663-5	1 (25'-26')	Total/NA	Solid	8015B NM	27880
820-4663-8	2 (10'-11')	Total/NA	Solid	8015B NM	27880
820-4663-9	2 (15'-16')	Total/NA	Solid	8015B NM	27880
820-4663-10	2 (20'-21')	Total/NA	Solid	8015B NM	27880
820-4663-11	2 (25'-26')	Total/NA	Solid	8015B NM	27880
820-4663-12	2 (30'-31')	Total/NA	Solid	8015B NM	27880
820-4663-15	3 (15'-16')	Total/NA	Solid	8015B NM	27880
820-4663-16	3 (20'-21')	Total/NA	Solid	8015B NM	27880
820-4663-17	3 (25'-26')	Total/NA	Solid	8015B NM	27880
820-4663-18	3 (30'-31')	Total/NA	Solid	8015B NM	27880
820-4663-21	4 (15'-16')	Total/NA	Solid	8015B NM	27880
820-4663-22	4 (20'-21')	Total/NA	Solid	8015B NM	27880
820-4663-23	4 (25'-26')	Total/NA	Solid	8015B NM	27880
820-4663-24	4 (30'-31')	Total/NA	Solid	8015B NM	27880
820-4663-27	5 (15'-16')	Total/NA	Solid	8015B NM	27880
820-4663-28	5 (20'-21')	Total/NA	Solid	8015B NM	27880
820-4663-29	5 (25'-26')	Total/NA	Solid	8015B NM	27880
820-4663-30	5 (30'-31')	Total/NA	Solid	8015B NM	27880
MB 880-27880/1-A	Method Blank	Total/NA	Solid	8015B NM	27880
LCS 880-27880/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	27880
LCSD 880-27880/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	27880
820-4663-3 MS	1 (15'-16')	Total/NA	Solid	8015B NM	27880
820-4663-3 MSD	1 (15'-16')	Total/NA	Solid	8015B NM	27880

Analysis Batch: 27904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4663-31	6 (0'-1')	Total/NA	Solid	8015B NM	27882
820-4663-32	6 (5'-6')	Total/NA	Solid	8015B NM	27882
820-4663-33	6 (10'-11')	Total/NA	Solid	8015B NM	27882
820-4663-38	7 (0'-1')	Total/NA	Solid	8015B NM	27882
820-4663-39	7 (5'-6')	Total/NA	Solid	8015B NM	27882
820-4663-40	7 (10'-11')	Total/NA	Solid	8015B NM	27882
820-4663-41	7 (15'-16')	Total/NA	Solid	8015B NM	27882
820-4663-45	8 (0'-1')	Total/NA	Solid	8015B NM	27882
820-4663-46	8 (5'-6')	Total/NA	Solid	8015B NM	27882
820-4663-47	8 (10'-11')	Total/NA	Solid	8015B NM	27882
820-4663-48	8 (15'-16')	Total/NA	Solid	8015B NM	27882
820-4663-52	9 (5'-6')	Total/NA	Solid	8015B NM	27882
820-4663-53	9 (10'-11')	Total/NA	Solid	8015B NM	27882
820-4663-54	9 (15'-16')	Total/NA	Solid	8015B NM	27882
820-4663-58	10 (0'-1')	Total/NA	Solid	8015B NM	27882
820-4663-59	10 (5'-6')	Total/NA	Solid	8015B NM	27882
820-4663-60	10 (10'-11')	Total/NA	Solid	8015B NM	27882
820-4663-61	10 (15'-16')	Total/NA	Solid	8015B NM	27882
820-4663-65	11 (0'-1')	Total/NA	Solid	8015B NM	27882

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

GC Semi VOA (Continued)

Analysis Batch: 27904 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4663-66	11 (5'-6')	Total/NA	Solid	8015B NM	27882
MB 880-27882/1-A	Method Blank	Total/NA	Solid	8015B NM	27882
LCS 880-27882/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	27882
LCSD 880-27882/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	27882
820-4663-31 MS	6 (0'-1')	Total/NA	Solid	8015B NM	27882
820-4663-31 MSD	6 (0'-1')	Total/NA	Solid	8015B NM	27882

Prep Batch: 27985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4663-67	11 (10'-11')	Total/NA	Solid	8015NM Prep	
820-4663-68	11 (15'-16')	Total/NA	Solid	8015NM Prep	
820-4663-72	12 (0'-1')	Total/NA	Solid	8015NM Prep	
820-4663-73	12 (5'-6')	Total/NA	Solid	8015NM Prep	
820-4663-74	12 (10'-11')	Total/NA	Solid	8015NM Prep	
820-4663-75	12 (15'-16')	Total/NA	Solid	8015NM Prep	
MB 880-27985/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-27985/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-27985/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
820-4663-67 MS	11 (10'-11')	Total/NA	Solid	8015NM Prep	
820-4663-67 MSD	11 (10'-11')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 28009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4663-3	1 (15'-16')	Total/NA	Solid	8015 NM	
820-4663-4	1 (20'-21')	Total/NA	Solid	8015 NM	
820-4663-5	1 (25'-26')	Total/NA	Solid	8015 NM	
820-4663-8	2 (10'-11')	Total/NA	Solid	8015 NM	
820-4663-9	2 (15'-16')	Total/NA	Solid	8015 NM	
820-4663-10	2 (20'-21')	Total/NA	Solid	8015 NM	
820-4663-11	2 (25'-26')	Total/NA	Solid	8015 NM	
820-4663-12	2 (30'-31')	Total/NA	Solid	8015 NM	
820-4663-15	3 (15'-16')	Total/NA	Solid	8015 NM	
820-4663-16	3 (20'-21')	Total/NA	Solid	8015 NM	
820-4663-17	3 (25'-26')	Total/NA	Solid	8015 NM	
820-4663-18	3 (30'-31')	Total/NA	Solid	8015 NM	
820-4663-21	4 (15'-16')	Total/NA	Solid	8015 NM	
820-4663-22	4 (20'-21')	Total/NA	Solid	8015 NM	
820-4663-23	4 (25'-26')	Total/NA	Solid	8015 NM	
820-4663-24	4 (30'-31')	Total/NA	Solid	8015 NM	
820-4663-27	5 (15'-16')	Total/NA	Solid	8015 NM	
820-4663-28	5 (20'-21')	Total/NA	Solid	8015 NM	
820-4663-29	5 (25'-26')	Total/NA	Solid	8015 NM	
820-4663-30	5 (30'-31')	Total/NA	Solid	8015 NM	
820-4663-31	6 (0'-1')	Total/NA	Solid	8015 NM	
820-4663-32	6 (5'-6')	Total/NA	Solid	8015 NM	
820-4663-33	6 (10'-11')	Total/NA	Solid	8015 NM	
820-4663-38	7 (0'-1')	Total/NA	Solid	8015 NM	
820-4663-39	7 (5'-6')	Total/NA	Solid	8015 NM	
820-4663-40	7 (10'-11')	Total/NA	Solid	8015 NM	
820-4663-41	7 (15'-16')	Total/NA	Solid	8015 NM	
820-4663-45	8 (0'-1')	Total/NA	Solid	8015 NM	

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

GC Semi VOA (Continued)

Analysis Batch: 28009 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4663-46	8 (5'-6')	Total/NA	Solid	8015 NM	
820-4663-47	8 (10'-11')	Total/NA	Solid	8015 NM	
820-4663-48	8 (15'-16')	Total/NA	Solid	8015 NM	
820-4663-52	9 (5'-6')	Total/NA	Solid	8015 NM	
820-4663-53	9 (10'-11')	Total/NA	Solid	8015 NM	
820-4663-54	9 (15'-16')	Total/NA	Solid	8015 NM	
820-4663-58	10 (0'-1')	Total/NA	Solid	8015 NM	
820-4663-59	10 (5'-6')	Total/NA	Solid	8015 NM	
820-4663-60	10 (10'-11')	Total/NA	Solid	8015 NM	
820-4663-61	10 (15'-16')	Total/NA	Solid	8015 NM	
820-4663-65	11 (0'-1')	Total/NA	Solid	8015 NM	
820-4663-66	11 (5'-6')	Total/NA	Solid	8015 NM	
820-4663-67	11 (10'-11')	Total/NA	Solid	8015 NM	
820-4663-68	11 (15'-16')	Total/NA	Solid	8015 NM	
820-4663-72	12 (0'-1')	Total/NA	Solid	8015 NM	
820-4663-73	12 (5'-6')	Total/NA	Solid	8015 NM	
820-4663-74	12 (10'-11')	Total/NA	Solid	8015 NM	
820-4663-75	12 (15'-16')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 27961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4663-3	1 (15'-16')	Soluble	Solid	DI Leach	
820-4663-4	1 (20'-21')	Soluble	Solid	DI Leach	
820-4663-5	1 (25'-26')	Soluble	Solid	DI Leach	
820-4663-8	2 (10'-11')	Soluble	Solid	DI Leach	
820-4663-9	2 (15'-16')	Soluble	Solid	DI Leach	
820-4663-10	2 (20'-21')	Soluble	Solid	DI Leach	
820-4663-11	2 (25'-26')	Soluble	Solid	DI Leach	
820-4663-12	2 (30'-31')	Soluble	Solid	DI Leach	
820-4663-15	3 (15'-16')	Soluble	Solid	DI Leach	
820-4663-16	3 (20'-21')	Soluble	Solid	DI Leach	
820-4663-17	3 (25'-26')	Soluble	Solid	DI Leach	
820-4663-18	3 (30'-31')	Soluble	Solid	DI Leach	
820-4663-21	4 (15'-16')	Soluble	Solid	DI Leach	
820-4663-22	4 (20'-21')	Soluble	Solid	DI Leach	
820-4663-23	4 (25'-26')	Soluble	Solid	DI Leach	
820-4663-24	4 (30'-31')	Soluble	Solid	DI Leach	
820-4663-27	5 (15'-16')	Soluble	Solid	DI Leach	
820-4663-28	5 (20'-21')	Soluble	Solid	DI Leach	
820-4663-29	5 (25'-26')	Soluble	Solid	DI Leach	
820-4663-30	5 (30'-31')	Soluble	Solid	DI Leach	
MB 880-27961/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-27961/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-27961/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
820-4663-3 MS	1 (15'-16')	Soluble	Solid	DI Leach	
820-4663-3 MSD	1 (15'-16')	Soluble	Solid	DI Leach	
820-4663-17 MS	3 (25'-26')	Soluble	Solid	DI Leach	
820-4663-17 MSD	3 (25'-26')	Soluble	Solid	DI Leach	

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

HPLC/IC

Leach Batch: 27962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4663-31	6 (0'-1')	Soluble	Solid	DI Leach	
820-4663-32	6 (5'-6')	Soluble	Solid	DI Leach	
820-4663-33	6 (10'-11')	Soluble	Solid	DI Leach	
820-4663-38	7 (0'-1')	Soluble	Solid	DI Leach	
820-4663-39	7 (5'-6')	Soluble	Solid	DI Leach	
820-4663-40	7 (10'-11')	Soluble	Solid	DI Leach	
820-4663-41	7 (15'-16')	Soluble	Solid	DI Leach	
820-4663-45	8 (0'-1')	Soluble	Solid	DI Leach	
820-4663-46	8 (5'-6')	Soluble	Solid	DI Leach	
820-4663-47	8 (10'-11')	Soluble	Solid	DI Leach	
820-4663-48	8 (15'-16')	Soluble	Solid	DI Leach	
820-4663-52	9 (5'-6')	Soluble	Solid	DI Leach	
820-4663-53	9 (10'-11')	Soluble	Solid	DI Leach	
820-4663-54	9 (15'-16')	Soluble	Solid	DI Leach	
820-4663-58	10 (0'-1')	Soluble	Solid	DI Leach	
820-4663-59	10 (5'-6')	Soluble	Solid	DI Leach	
820-4663-60	10 (10'-11')	Soluble	Solid	DI Leach	
820-4663-61	10 (15'-16')	Soluble	Solid	DI Leach	
820-4663-65	11 (0'-1')	Soluble	Solid	DI Leach	
820-4663-66	11 (5'-6')	Soluble	Solid	DI Leach	
MB 880-27962/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-27962/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-27962/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
820-4663-31 MS	6 (0'-1')	Soluble	Solid	DI Leach	
820-4663-31 MSD	6 (0'-1')	Soluble	Solid	DI Leach	
820-4663-48 MS	8 (15'-16')	Soluble	Solid	DI Leach	
820-4663-48 MSD	8 (15'-16')	Soluble	Solid	DI Leach	

Leach Batch: 27963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4663-67	11 (10'-11')	Soluble	Solid	DI Leach	
820-4663-68	11 (15'-16')	Soluble	Solid	DI Leach	
820-4663-72	12 (0'-1')	Soluble	Solid	DI Leach	
820-4663-73	12 (5'-6')	Soluble	Solid	DI Leach	
820-4663-74	12 (10'-11')	Soluble	Solid	DI Leach	
820-4663-75	12 (15'-16')	Soluble	Solid	DI Leach	
MB 880-27963/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-27963/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-27963/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
820-4663-67 MS	11 (10'-11')	Soluble	Solid	DI Leach	
820-4663-67 MSD	11 (10'-11')	Soluble	Solid	DI Leach	

Analysis Batch: 28169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4663-31	6 (0'-1')	Soluble	Solid	300.0	27962
820-4663-32	6 (5'-6')	Soluble	Solid	300.0	27962
820-4663-33	6 (10'-11')	Soluble	Solid	300.0	27962
820-4663-38	7 (0'-1')	Soluble	Solid	300.0	27962
820-4663-39	7 (5'-6')	Soluble	Solid	300.0	27962
820-4663-40	7 (10'-11')	Soluble	Solid	300.0	27962
820-4663-41	7 (15'-16')	Soluble	Solid	300.0	27962

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

HPLC/IC (Continued)

Analysis Batch: 28169 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4663-45	8 (0'-1')	Soluble	Solid	300.0	27962
820-4663-46	8 (5'-6')	Soluble	Solid	300.0	27962
820-4663-47	8 (10'-11')	Soluble	Solid	300.0	27962
820-4663-48	8 (15'-16')	Soluble	Solid	300.0	27962
820-4663-52	9 (5'-6')	Soluble	Solid	300.0	27962
820-4663-53	9 (10'-11')	Soluble	Solid	300.0	27962
820-4663-54	9 (15'-16')	Soluble	Solid	300.0	27962
820-4663-58	10 (0'-1')	Soluble	Solid	300.0	27962
820-4663-59	10 (5'-6')	Soluble	Solid	300.0	27962
820-4663-60	10 (10'-11')	Soluble	Solid	300.0	27962
820-4663-61	10 (15'-16')	Soluble	Solid	300.0	27962
820-4663-65	11 (0'-1')	Soluble	Solid	300.0	27962
820-4663-66	11 (5'-6')	Soluble	Solid	300.0	27962
MB 880-27962/1-A	Method Blank	Soluble	Solid	300.0	27962
LCS 880-27962/2-A	Lab Control Sample	Soluble	Solid	300.0	27962
LCSD 880-27962/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	27962
820-4663-31 MS	6 (0'-1')	Soluble	Solid	300.0	27962
820-4663-31 MSD	6 (0'-1')	Soluble	Solid	300.0	27962
820-4663-48 MS	8 (15'-16')	Soluble	Solid	300.0	27962
820-4663-48 MSD	8 (15'-16')	Soluble	Solid	300.0	27962

Analysis Batch: 28185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4663-67	11 (10'-11')	Soluble	Solid	300.0	27963
820-4663-68	11 (15'-16')	Soluble	Solid	300.0	27963
820-4663-72	12 (0'-1')	Soluble	Solid	300.0	27963
820-4663-73	12 (5'-6')	Soluble	Solid	300.0	27963
820-4663-74	12 (10'-11')	Soluble	Solid	300.0	27963
820-4663-75	12 (15'-16')	Soluble	Solid	300.0	27963
MB 880-27963/1-A	Method Blank	Soluble	Solid	300.0	27963
LCS 880-27963/2-A	Lab Control Sample	Soluble	Solid	300.0	27963
LCSD 880-27963/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	27963
820-4663-67 MS	11 (10'-11')	Soluble	Solid	300.0	27963
820-4663-67 MSD	11 (10'-11')	Soluble	Solid	300.0	27963

Analysis Batch: 28187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4663-3	1 (15'-16')	Soluble	Solid	300.0	27961
820-4663-4	1 (20'-21')	Soluble	Solid	300.0	27961
820-4663-5	1 (25'-26')	Soluble	Solid	300.0	27961
820-4663-8	2 (10'-11')	Soluble	Solid	300.0	27961
820-4663-9	2 (15'-16')	Soluble	Solid	300.0	27961
820-4663-10	2 (20'-21')	Soluble	Solid	300.0	27961
820-4663-11	2 (25'-26')	Soluble	Solid	300.0	27961
820-4663-12	2 (30'-31')	Soluble	Solid	300.0	27961
820-4663-15	3 (15'-16')	Soluble	Solid	300.0	27961
820-4663-16	3 (20'-21')	Soluble	Solid	300.0	27961
820-4663-17	3 (25'-26')	Soluble	Solid	300.0	27961
820-4663-18	3 (30'-31')	Soluble	Solid	300.0	27961
820-4663-21	4 (15'-16')	Soluble	Solid	300.0	27961
820-4663-22	4 (20'-21')	Soluble	Solid	300.0	27961

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

HPLC/IC (Continued)

Analysis Batch: 28187 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4663-23	4 (25'-26')	Soluble	Solid	300.0	27961
820-4663-24	4 (30'-31')	Soluble	Solid	300.0	27961
820-4663-27	5 (15'-16')	Soluble	Solid	300.0	27961
820-4663-28	5 (20'-21')	Soluble	Solid	300.0	27961
820-4663-29	5 (25'-26')	Soluble	Solid	300.0	27961
820-4663-30	5 (30'-31')	Soluble	Solid	300.0	27961
MB 880-27961/1-A	Method Blank	Soluble	Solid	300.0	27961
LCS 880-27961/2-A	Lab Control Sample	Soluble	Solid	300.0	27961
LCSD 880-27961/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	27961
820-4663-3 MS	1 (15'-16')	Soluble	Solid	300.0	27961
820-4663-3 MSD	1 (15'-16')	Soluble	Solid	300.0	27961
820-4663-17 MS	3 (25'-26')	Soluble	Solid	300.0	27961
820-4663-17 MSD	3 (25'-26')	Soluble	Solid	300.0	27961

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Client Sample ID: 1 (15'-16')

Lab Sample ID: 820-4663-3

Date Collected: 06/16/22 08:55

Matrix: Solid

Date Received: 06/17/22 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	28059	06/21/22 14:16	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28004	06/22/22 00:19	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28139	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28009	06/21/22 08:57	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27880	06/20/22 08:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27893	06/20/22 16:24	SM	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	27961	06/20/22 14:59	SC	XEN MID
Soluble	Analysis	300.0		10			28187	06/24/22 06:17	SC	XEN MID

Client Sample ID: 1 (20'-21')

Lab Sample ID: 820-4663-4

Date Collected: 06/16/22 09:00

Matrix: Solid

Date Received: 06/17/22 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	28059	06/21/22 14:16	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28004	06/22/22 03:44	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28139	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28009	06/21/22 08:57	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27880	06/20/22 08:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27893	06/20/22 17:27	SM	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	27961	06/20/22 14:59	SC	XEN MID
Soluble	Analysis	300.0		1			28187	06/24/22 06:45	SC	XEN MID

Client Sample ID: 1 (25'-26')

Lab Sample ID: 820-4663-5

Date Collected: 06/16/22 09:05

Matrix: Solid

Date Received: 06/17/22 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	28109	06/22/22 09:54	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28093	06/22/22 16:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28139	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28009	06/21/22 08:57	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27880	06/20/22 08:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27893	06/20/22 17:48	SM	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	27961	06/20/22 14:59	SC	XEN MID
Soluble	Analysis	300.0		10			28187	06/24/22 06:54	SC	XEN MID

Client Sample ID: 2 (10'-11')

Lab Sample ID: 820-4663-8

Date Collected: 06/16/22 09:50

Matrix: Solid

Date Received: 06/17/22 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	28059	06/21/22 14:16	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28004	06/22/22 04:25	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28139	06/22/22 12:00	SM	XEN MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Client Sample ID: 2 (10'-11')

Date Collected: 06/16/22 09:50

Date Received: 06/17/22 10:26

Lab Sample ID: 820-4663-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			28009	06/21/22 08:57	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	27880	06/20/22 08:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27893	06/20/22 18:09	SM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	27961	06/20/22 14:59	SC	XEN MID
Soluble	Analysis	300.0		5			28187	06/24/22 07:03	SC	XEN MID

Client Sample ID: 2 (15'-16')

Date Collected: 06/16/22 09:55

Date Received: 06/17/22 10:26

Lab Sample ID: 820-4663-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	28059	06/21/22 14:16	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28004	06/22/22 04:46	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28139	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28009	06/21/22 08:57	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27880	06/20/22 08:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27893	06/20/22 18:29	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	27961	06/20/22 14:59	SC	XEN MID
Soluble	Analysis	300.0		10			28187	06/24/22 19:22	SC	XEN MID

Client Sample ID: 2 (20'-21')

Date Collected: 06/16/22 10:00

Date Received: 06/17/22 10:26

Lab Sample ID: 820-4663-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	28059	06/21/22 14:16	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28004	06/22/22 05:06	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28139	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28009	06/21/22 08:57	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27880	06/20/22 08:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27893	06/20/22 18:50	SM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	27961	06/20/22 14:59	SC	XEN MID
Soluble	Analysis	300.0		5			28187	06/24/22 07:40	SC	XEN MID

Client Sample ID: 2 (25'-26')

Date Collected: 06/16/22 10:05

Date Received: 06/17/22 10:26

Lab Sample ID: 820-4663-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	28059	06/21/22 14:16	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28004	06/22/22 05:27	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28139	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28009	06/21/22 08:57	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27880	06/20/22 08:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27893	06/20/22 19:11	SM	XEN MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Client Sample ID: 2 (25'-26')

Date Collected: 06/16/22 10:05

Date Received: 06/17/22 10:26

Lab Sample ID: 820-4663-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	27961	06/20/22 14:59	SC	XEN MID
Soluble	Analysis	300.0		1			28187	06/24/22 07:50	SC	XEN MID

Client Sample ID: 2 (30'-31')

Date Collected: 06/16/22 10:10

Date Received: 06/17/22 10:26

Lab Sample ID: 820-4663-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	28059	06/21/22 14:16	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28004	06/22/22 05:47	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28139	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28009	06/21/22 08:57	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27880	06/20/22 08:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27893	06/20/22 19:32	SM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	27961	06/20/22 14:59	SC	XEN MID
Soluble	Analysis	300.0		5			28187	06/24/22 07:59	SC	XEN MID

Client Sample ID: 3 (15'-16')

Date Collected: 06/16/22 10:40

Date Received: 06/17/22 10:26

Lab Sample ID: 820-4663-15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	28059	06/21/22 14:16	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28004	06/22/22 06:08	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28139	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28009	06/21/22 08:57	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27880	06/20/22 08:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27893	06/20/22 19:53	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	27961	06/20/22 14:59	SC	XEN MID
Soluble	Analysis	300.0		20			28187	06/24/22 08:08	SC	XEN MID

Client Sample ID: 3 (20'-21')

Date Collected: 06/16/22 10:45

Date Received: 06/17/22 10:26

Lab Sample ID: 820-4663-16

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	28059	06/21/22 14:16	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28004	06/22/22 06:28	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28139	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28009	06/21/22 08:57	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	27880	06/20/22 08:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27893	06/20/22 20:13	SM	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	27961	06/20/22 14:59	SC	XEN MID
Soluble	Analysis	300.0		1			28187	06/24/22 17:03	SC	XEN MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Client Sample ID: 3 (25'-26')

Lab Sample ID: 820-4663-17

Date Collected: 06/16/22 10:50

Matrix: Solid

Date Received: 06/17/22 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	28059	06/21/22 14:16	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28004	06/22/22 06:49	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28139	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28009	06/21/22 08:57	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	27880	06/20/22 08:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27893	06/20/22 20:55	SM	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	27961	06/20/22 14:59	SC	XEN MID
Soluble	Analysis	300.0		5			28187	06/24/22 08:27	SC	XEN MID

Client Sample ID: 3 (30'-31')

Lab Sample ID: 820-4663-18

Date Collected: 06/16/22 10:55

Matrix: Solid

Date Received: 06/17/22 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	28063	06/21/22 14:42	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28005	06/22/22 01:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28139	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28009	06/21/22 08:57	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27880	06/20/22 08:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27893	06/20/22 21:16	SM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	27961	06/20/22 14:59	SC	XEN MID
Soluble	Analysis	300.0		5			28187	06/24/22 08:54	SC	XEN MID

Client Sample ID: 4 (15'-16')

Lab Sample ID: 820-4663-21

Date Collected: 06/16/22 11:35

Matrix: Solid

Date Received: 06/17/22 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	28063	06/21/22 14:42	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28005	06/22/22 02:17	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28139	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28009	06/21/22 08:57	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27880	06/20/22 08:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27893	06/20/22 21:36	SM	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	27961	06/20/22 14:59	SC	XEN MID
Soluble	Analysis	300.0		5			28187	06/24/22 09:03	SC	XEN MID

Client Sample ID: 4 (20'-21')

Lab Sample ID: 820-4663-22

Date Collected: 06/16/22 11:40

Matrix: Solid

Date Received: 06/17/22 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	28063	06/21/22 14:42	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28005	06/22/22 02:37	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28139	06/22/22 12:00	SM	XEN MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Client Sample ID: 4 (20'-21')

Lab Sample ID: 820-4663-22

Date Collected: 06/16/22 11:40

Matrix: Solid

Date Received: 06/17/22 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			28009	06/21/22 08:57	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	27880	06/20/22 08:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27893	06/20/22 21:57	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	27961	06/20/22 14:59	SC	XEN MID
Soluble	Analysis	300.0		1			28187	06/24/22 09:31	SC	XEN MID

Client Sample ID: 4 (25'-26')

Lab Sample ID: 820-4663-23

Date Collected: 06/16/22 11:45

Matrix: Solid

Date Received: 06/17/22 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	28063	06/21/22 14:42	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28005	06/22/22 04:02	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28139	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28009	06/21/22 08:57	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27880	06/20/22 08:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27893	06/20/22 22:17	SM	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	27961	06/20/22 14:59	SC	XEN MID
Soluble	Analysis	300.0		1			28187	06/24/22 09:40	SC	XEN MID

Client Sample ID: 4 (30'-31')

Lab Sample ID: 820-4663-24

Date Collected: 06/16/22 11:50

Matrix: Solid

Date Received: 06/17/22 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	28063	06/21/22 14:42	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28005	06/22/22 04:22	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28139	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28009	06/21/22 08:57	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27880	06/20/22 08:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27893	06/20/22 22:38	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	27961	06/20/22 14:59	SC	XEN MID
Soluble	Analysis	300.0		1			28187	06/24/22 09:50	SC	XEN MID

Client Sample ID: 5 (15'-16')

Lab Sample ID: 820-4663-27

Date Collected: 06/16/22 12:10

Matrix: Solid

Date Received: 06/17/22 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	28063	06/21/22 14:42	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28005	06/22/22 04:43	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28139	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28009	06/21/22 08:57	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	27880	06/20/22 08:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27893	06/20/22 23:00	SM	XEN MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Client Sample ID: 5 (15'-16')

Date Collected: 06/16/22 12:10

Date Received: 06/17/22 10:26

Lab Sample ID: 820-4663-27

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	27961	06/20/22 14:59	SC	XEN MID
Soluble	Analysis	300.0		10			28187	06/24/22 09:59	SC	XEN MID

Client Sample ID: 5 (20'-21')

Date Collected: 06/16/22 12:15

Date Received: 06/17/22 10:26

Lab Sample ID: 820-4663-28

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	28063	06/21/22 14:42	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28005	06/22/22 05:04	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28139	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28009	06/21/22 08:57	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27880	06/20/22 08:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27893	06/20/22 23:20	SM	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	27961	06/20/22 14:59	SC	XEN MID
Soluble	Analysis	300.0		20			28187	06/24/22 10:08	SC	XEN MID

Client Sample ID: 5 (25'-26')

Date Collected: 06/16/22 12:20

Date Received: 06/17/22 10:26

Lab Sample ID: 820-4663-29

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	28063	06/21/22 14:42	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28005	06/22/22 05:25	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28139	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28009	06/21/22 08:57	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27880	06/20/22 08:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27893	06/20/22 23:41	SM	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	27961	06/20/22 14:59	SC	XEN MID
Soluble	Analysis	300.0		1			28187	06/24/22 17:12	SC	XEN MID

Client Sample ID: 5 (30'-31')

Date Collected: 06/16/22 12:25

Date Received: 06/17/22 10:26

Lab Sample ID: 820-4663-30

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	28063	06/21/22 14:42	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28005	06/22/22 05:45	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28139	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28009	06/21/22 08:57	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	27880	06/20/22 08:29	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27893	06/21/22 00:01	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	27961	06/20/22 14:59	SC	XEN MID
Soluble	Analysis	300.0		5			28187	06/24/22 10:26	SC	XEN MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Client Sample ID: 6 (0'-1')

Lab Sample ID: 820-4663-31

Date Collected: 06/16/22 12:45

Matrix: Solid

Date Received: 06/17/22 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	28063	06/21/22 14:42	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28005	06/22/22 06:06	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28139	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28009	06/21/22 08:57	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27882	06/20/22 08:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27904	06/20/22 16:24	SM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	27962	06/20/22 15:09	SC	XEN MID
Soluble	Analysis	300.0		1			28169	06/23/22 12:16	SC	XEN MID

Client Sample ID: 6 (5'-6')

Lab Sample ID: 820-4663-32

Date Collected: 06/16/22 12:50

Matrix: Solid

Date Received: 06/17/22 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	28063	06/21/22 14:42	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28005	06/22/22 06:27	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28139	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28009	06/21/22 08:57	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27882	06/20/22 08:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27904	06/20/22 17:27	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	27962	06/20/22 15:09	SC	XEN MID
Soluble	Analysis	300.0		5			28169	06/23/22 15:24	SC	XEN MID

Client Sample ID: 6 (10'-11')

Lab Sample ID: 820-4663-33

Date Collected: 06/16/22 12:55

Matrix: Solid

Date Received: 06/17/22 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	28063	06/21/22 14:42	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28005	06/22/22 06:47	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28139	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28009	06/21/22 08:57	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27882	06/20/22 08:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27904	06/20/22 17:48	SM	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	27962	06/20/22 15:09	SC	XEN MID
Soluble	Analysis	300.0		1			28169	06/23/22 15:32	SC	XEN MID

Client Sample ID: 7 (0'-1')

Lab Sample ID: 820-4663-38

Date Collected: 06/16/22 13:15

Matrix: Solid

Date Received: 06/17/22 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	28063	06/21/22 14:42	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28005	06/22/22 07:08	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28139	06/22/22 12:00	SM	XEN MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Client Sample ID: 7 (0'-1')

Lab Sample ID: 820-4663-38

Date Collected: 06/16/22 13:15

Matrix: Solid

Date Received: 06/17/22 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			28009	06/21/22 08:57	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	27882	06/20/22 08:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27904	06/20/22 18:09	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	27962	06/20/22 15:09	SC	XEN MID
Soluble	Analysis	300.0		1			28169	06/23/22 15:40	SC	XEN MID

Client Sample ID: 7 (5'-6')

Lab Sample ID: 820-4663-39

Date Collected: 06/16/22 13:20

Matrix: Solid

Date Received: 06/17/22 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	28066	06/21/22 15:03	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28003	06/21/22 23:47	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28139	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28009	06/21/22 08:57	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27882	06/20/22 08:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27904	06/20/22 18:29	SM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	27962	06/20/22 15:09	SC	XEN MID
Soluble	Analysis	300.0		1			28169	06/23/22 16:20	SC	XEN MID

Client Sample ID: 7 (10'-11')

Lab Sample ID: 820-4663-40

Date Collected: 06/16/22 13:25

Matrix: Solid

Date Received: 06/17/22 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	28066	06/21/22 15:03	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28003	06/22/22 00:07	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28139	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28009	06/21/22 08:57	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27882	06/20/22 08:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27904	06/20/22 18:50	SM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	27962	06/20/22 15:09	SC	XEN MID
Soluble	Analysis	300.0		1			28169	06/23/22 16:43	SC	XEN MID

Client Sample ID: 7 (15'-16')

Lab Sample ID: 820-4663-41

Date Collected: 06/16/22 13:30

Matrix: Solid

Date Received: 06/17/22 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	28066	06/21/22 15:03	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28003	06/22/22 00:27	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28139	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28009	06/21/22 08:57	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27882	06/20/22 08:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27904	06/20/22 19:11	SM	XEN MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Client Sample ID: 7 (15'-16')

Date Collected: 06/16/22 13:30

Date Received: 06/17/22 10:26

Lab Sample ID: 820-4663-41

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	27962	06/20/22 15:09	SC	XEN MID
Soluble	Analysis	300.0		5			28169	06/23/22 16:51	SC	XEN MID

Client Sample ID: 8 (0'-1')

Date Collected: 06/16/22 14:00

Date Received: 06/17/22 10:26

Lab Sample ID: 820-4663-45

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	28066	06/21/22 15:03	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28003	06/22/22 00:48	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28139	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28009	06/21/22 08:57	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27882	06/20/22 08:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27904	06/20/22 19:32	SM	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	27962	06/20/22 15:09	SC	XEN MID
Soluble	Analysis	300.0		1			28169	06/23/22 20:22	SC	XEN MID

Client Sample ID: 8 (5'-6')

Date Collected: 06/16/22 14:05

Date Received: 06/17/22 10:26

Lab Sample ID: 820-4663-46

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	28066	06/21/22 15:03	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28003	06/22/22 01:08	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28139	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28009	06/21/22 08:57	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27882	06/20/22 08:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27904	06/20/22 19:53	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	27962	06/20/22 15:09	SC	XEN MID
Soluble	Analysis	300.0		1			28169	06/23/22 20:30	SC	XEN MID

Client Sample ID: 8 (10'-11')

Date Collected: 06/16/22 14:15

Date Received: 06/17/22 10:26

Lab Sample ID: 820-4663-47

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	28066	06/21/22 15:03	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28003	06/22/22 01:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28139	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28009	06/21/22 08:57	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27882	06/20/22 08:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27904	06/20/22 20:13	SM	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	27962	06/20/22 15:09	SC	XEN MID
Soluble	Analysis	300.0		1			28169	06/23/22 20:38	SC	XEN MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Client Sample ID: 8 (15'-16')

Lab Sample ID: 820-4663-48

Date Collected: 06/16/22 14:20

Matrix: Solid

Date Received: 06/17/22 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	28066	06/21/22 15:03	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28003	06/22/22 01:49	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28139	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28009	06/21/22 08:57	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27882	06/20/22 08:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27904	06/20/22 20:55	SM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	27962	06/20/22 15:09	SC	XEN MID
Soluble	Analysis	300.0		1			28169	06/23/22 20:46	SC	XEN MID

Client Sample ID: 9 (5'-6')

Lab Sample ID: 820-4663-52

Date Collected: 06/16/22 14:55

Matrix: Solid

Date Received: 06/17/22 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	28066	06/21/22 15:03	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28003	06/22/22 02:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28139	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28009	06/21/22 08:57	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27882	06/20/22 08:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27904	06/20/22 21:16	SM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	27962	06/20/22 15:09	SC	XEN MID
Soluble	Analysis	300.0		1			28169	06/23/22 21:09	SC	XEN MID

Client Sample ID: 9 (10'-11')

Lab Sample ID: 820-4663-53

Date Collected: 06/16/22 15:00

Matrix: Solid

Date Received: 06/17/22 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	28066	06/21/22 15:03	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28003	06/22/22 02:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28139	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28009	06/21/22 08:57	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	27882	06/20/22 08:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27904	06/20/22 21:36	SM	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	27962	06/20/22 15:09	SC	XEN MID
Soluble	Analysis	300.0		10			28169	06/23/22 21:17	SC	XEN MID

Client Sample ID: 9 (15'-16')

Lab Sample ID: 820-4663-54

Date Collected: 06/16/22 15:05

Matrix: Solid

Date Received: 06/17/22 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	28066	06/21/22 15:03	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28003	06/22/22 02:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28139	06/22/22 12:00	SM	XEN MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Client Sample ID: 9 (15'-16')

Lab Sample ID: 820-4663-54

Date Collected: 06/16/22 15:05

Matrix: Solid

Date Received: 06/17/22 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			28009	06/21/22 08:57	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27882	06/20/22 08:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27904	06/20/22 21:57	SM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	27962	06/20/22 15:09	SC	XEN MID
Soluble	Analysis	300.0		1			28169	06/23/22 21:41	SC	XEN MID

Client Sample ID: 10 (0'-1')

Lab Sample ID: 820-4663-58

Date Collected: 06/16/22 15:30

Matrix: Solid

Date Received: 06/17/22 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	28066	06/21/22 15:03	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28003	06/22/22 04:41	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28139	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28009	06/21/22 08:57	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27882	06/20/22 08:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27904	06/20/22 22:17	SM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	27962	06/20/22 15:09	SC	XEN MID
Soluble	Analysis	300.0		5			28169	06/23/22 21:49	SC	XEN MID

Client Sample ID: 10 (5'-6')

Lab Sample ID: 820-4663-59

Date Collected: 06/16/22 15:35

Matrix: Solid

Date Received: 06/17/22 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	28066	06/21/22 15:03	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28003	06/22/22 05:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28139	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28009	06/21/22 08:57	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27882	06/20/22 08:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27904	06/20/22 22:38	SM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	27962	06/20/22 15:09	SC	XEN MID
Soluble	Analysis	300.0		10			28169	06/23/22 21:57	SC	XEN MID

Client Sample ID: 10 (10'-11')

Lab Sample ID: 820-4663-60

Date Collected: 06/16/22 15:40

Matrix: Solid

Date Received: 06/17/22 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	28066	06/21/22 15:03	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28003	06/22/22 05:22	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28139	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28009	06/21/22 08:57	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	27882	06/20/22 08:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27904	06/20/22 23:00	SM	XEN MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Client Sample ID: 10 (10'-11')

Lab Sample ID: 820-4663-60

Date Collected: 06/16/22 15:40

Matrix: Solid

Date Received: 06/17/22 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	27962	06/20/22 15:09	SC	XEN MID
Soluble	Analysis	300.0		1			28169	06/23/22 22:04	SC	XEN MID

Client Sample ID: 10 (15'-16')

Lab Sample ID: 820-4663-61

Date Collected: 06/16/22 15:45

Matrix: Solid

Date Received: 06/17/22 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	28066	06/21/22 15:03	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28003	06/22/22 05:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28139	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28009	06/21/22 08:57	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	27882	06/20/22 08:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27904	06/20/22 23:20	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	27962	06/20/22 15:09	SC	XEN MID
Soluble	Analysis	300.0		1			28169	06/23/22 22:12	SC	XEN MID

Client Sample ID: 11 (0'-1')

Lab Sample ID: 820-4663-65

Date Collected: 06/16/22 16:00

Matrix: Solid

Date Received: 06/17/22 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	28066	06/21/22 15:03	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28003	06/22/22 06:03	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28139	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28009	06/21/22 08:57	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27882	06/20/22 08:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27904	06/20/22 23:41	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	27962	06/20/22 15:09	SC	XEN MID
Soluble	Analysis	300.0		10			28169	06/23/22 22:20	SC	XEN MID

Client Sample ID: 11 (5'-6')

Lab Sample ID: 820-4663-66

Date Collected: 06/16/22 16:05

Matrix: Solid

Date Received: 06/17/22 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	28066	06/21/22 15:03	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28003	06/22/22 06:23	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28139	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28009	06/21/22 08:57	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27882	06/20/22 08:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27904	06/21/22 00:01	SM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	27962	06/20/22 15:09	SC	XEN MID
Soluble	Analysis	300.0		1			28169	06/23/22 22:28	SC	XEN MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Client Sample ID: 11 (10'-11')

Lab Sample ID: 820-4663-67

Date Collected: 06/16/22 16:10

Matrix: Solid

Date Received: 06/17/22 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	28066	06/21/22 15:03	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28003	06/22/22 06:43	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28139	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28009	06/21/22 08:57	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27985	06/20/22 16:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27889	06/21/22 06:18	SM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	27963	06/21/22 12:47	SC	XEN MID
Soluble	Analysis	300.0		1			28185	06/24/22 11:40	SC	XEN MID

Client Sample ID: 11 (15'-16')

Lab Sample ID: 820-4663-68

Date Collected: 06/16/22 16:15

Matrix: Solid

Date Received: 06/17/22 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	28066	06/21/22 15:03	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28003	06/22/22 07:04	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28139	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28009	06/21/22 08:57	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27985	06/20/22 16:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27889	06/21/22 07:23	SM	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	27963	06/21/22 12:47	SC	XEN MID
Soluble	Analysis	300.0		1			28185	06/24/22 12:08	SC	XEN MID

Client Sample ID: 12 (0'-1')

Lab Sample ID: 820-4663-72

Date Collected: 06/16/22 17:00

Matrix: Solid

Date Received: 06/17/22 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	28066	06/21/22 15:03	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28003	06/22/22 07:24	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28139	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28009	06/21/22 08:57	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27985	06/20/22 16:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27889	06/21/22 07:44	SM	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	27963	06/21/22 12:47	SC	XEN MID
Soluble	Analysis	300.0		1			28185	06/24/22 12:17	SC	XEN MID

Client Sample ID: 12 (5'-6')

Lab Sample ID: 820-4663-73

Date Collected: 06/16/22 17:05

Matrix: Solid

Date Received: 06/17/22 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	28066	06/21/22 15:03	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28003	06/22/22 07:45	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28139	06/22/22 12:00	SM	XEN MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Client Sample ID: 12 (5'-6')

Lab Sample ID: 820-4663-73

Date Collected: 06/16/22 17:05

Matrix: Solid

Date Received: 06/17/22 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			28009	06/21/22 08:57	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	27985	06/20/22 16:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27889	06/21/22 08:06	SM	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	27963	06/21/22 12:47	SC	XEN MID
Soluble	Analysis	300.0		1			28185	06/24/22 12:26	SC	XEN MID

Client Sample ID: 12 (10'-11')

Lab Sample ID: 820-4663-74

Date Collected: 06/16/22 17:10

Matrix: Solid

Date Received: 06/17/22 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	28068	06/21/22 15:28	MR	XEN MID
Total/NA	Analysis	8021B		1			28002	06/22/22 03:11	EL	XEN MID
Total/NA	Analysis	Total BTEX		1			28139	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28009	06/21/22 08:57	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27985	06/20/22 16:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27889	06/21/22 08:28	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	27963	06/21/22 12:47	SC	XEN MID
Soluble	Analysis	300.0		1			28185	06/24/22 12:35	SC	XEN MID

Client Sample ID: 12 (15'-16')

Lab Sample ID: 820-4663-75

Date Collected: 06/16/22 17:15

Matrix: Solid

Date Received: 06/17/22 10:26

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	28068	06/21/22 15:28	MR	XEN MID
Total/NA	Analysis	8021B		1			28002	06/22/22 03:38	EL	XEN MID
Total/NA	Analysis	Total BTEX		1			28139	06/22/22 12:00	SM	XEN MID
Total/NA	Analysis	8015 NM		1			28009	06/21/22 08:57	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27985	06/20/22 16:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27891	06/21/22 05:15	SM	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	27963	06/21/22 12:47	SC	XEN MID
Soluble	Analysis	300.0		1			28185	06/24/22 13:03	SC	XEN MID

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Lubbock

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: JR Horz Release

Job ID: 820-4663-1
SDG: AR227020

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
820-4663-3	1 (15'-16')	Solid	06/16/22 08:55	06/17/22 10:26
820-4663-4	1 (20'-21')	Solid	06/16/22 09:00	06/17/22 10:26
820-4663-5	1 (25'-26')	Solid	06/16/22 09:05	06/17/22 10:26
820-4663-8	2 (10'-11')	Solid	06/16/22 09:50	06/17/22 10:26
820-4663-9	2 (15'-16')	Solid	06/16/22 09:55	06/17/22 10:26
820-4663-10	2 (20'-21')	Solid	06/16/22 10:00	06/17/22 10:26
820-4663-11	2 (25'-26')	Solid	06/16/22 10:05	06/17/22 10:26
820-4663-12	2 (30'-31')	Solid	06/16/22 10:10	06/17/22 10:26
820-4663-15	3 (15'-16')	Solid	06/16/22 10:40	06/17/22 10:26
820-4663-16	3 (20'-21')	Solid	06/16/22 10:45	06/17/22 10:26
820-4663-17	3 (25'-26')	Solid	06/16/22 10:50	06/17/22 10:26
820-4663-18	3 (30'-31')	Solid	06/16/22 10:55	06/17/22 10:26
820-4663-21	4 (15'-16')	Solid	06/16/22 11:35	06/17/22 10:26
820-4663-22	4 (20'-21')	Solid	06/16/22 11:40	06/17/22 10:26
820-4663-23	4 (25'-26')	Solid	06/16/22 11:45	06/17/22 10:26
820-4663-24	4 (30'-31')	Solid	06/16/22 11:50	06/17/22 10:26
820-4663-27	5 (15'-16')	Solid	06/16/22 12:10	06/17/22 10:26
820-4663-28	5 (20'-21')	Solid	06/16/22 12:15	06/17/22 10:26
820-4663-29	5 (25'-26')	Solid	06/16/22 12:20	06/17/22 10:26
820-4663-30	5 (30'-31')	Solid	06/16/22 12:25	06/17/22 10:26
820-4663-31	6 (0'-1')	Solid	06/16/22 12:45	06/17/22 10:26
820-4663-32	6 (5'-6')	Solid	06/16/22 12:50	06/17/22 10:26
820-4663-33	6 (10'-11')	Solid	06/16/22 12:55	06/17/22 10:26
820-4663-38	7 (0'-1')	Solid	06/16/22 13:15	06/17/22 10:26
820-4663-39	7 (5'-6')	Solid	06/16/22 13:20	06/17/22 10:26
820-4663-40	7 (10'-11')	Solid	06/16/22 13:25	06/17/22 10:26
820-4663-41	7 (15'-16')	Solid	06/16/22 13:30	06/17/22 10:26
820-4663-45	8 (0'-1')	Solid	06/16/22 14:00	06/17/22 10:26
820-4663-46	8 (5'-6')	Solid	06/16/22 14:05	06/17/22 10:26
820-4663-47	8 (10'-11')	Solid	06/16/22 14:15	06/17/22 10:26
820-4663-48	8 (15'-16')	Solid	06/16/22 14:20	06/17/22 10:26
820-4663-52	9 (5'-6')	Solid	06/16/22 14:55	06/17/22 10:26
820-4663-53	9 (10'-11')	Solid	06/16/22 15:00	06/17/22 10:26
820-4663-54	9 (15'-16')	Solid	06/16/22 15:05	06/17/22 10:26
820-4663-58	10 (0'-1')	Solid	06/16/22 15:30	06/17/22 10:26
820-4663-59	10 (5'-6')	Solid	06/16/22 15:35	06/17/22 10:26
820-4663-60	10 (10'-11')	Solid	06/16/22 15:40	06/17/22 10:26
820-4663-61	10 (15'-16')	Solid	06/16/22 15:45	06/17/22 10:26
820-4663-65	11 (0'-1')	Solid	06/16/22 16:00	06/17/22 10:26
820-4663-66	11 (5'-6')	Solid	06/16/22 16:05	06/17/22 10:26
820-4663-67	11 (10'-11')	Solid	06/16/22 16:10	06/17/22 10:26
820-4663-68	11 (15'-16')	Solid	06/16/22 16:15	06/17/22 10:26
820-4663-72	12 (0'-1')	Solid	06/16/22 17:00	06/17/22 10:26
820-4663-73	12 (5'-6')	Solid	06/16/22 17:05	06/17/22 10:26
820-4663-74	12 (10'-11')	Solid	06/16/22 17:10	06/17/22 10:26
820-4663-75	12 (15'-16')	Solid	06/16/22 17:15	06/17/22 10:26

Loc: 820
4663

Released to Imaging: 3/8/2023 2:55:15 PM

Page 91 of 96

6/26/2022

[illegible]

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

Responsive ■ Resourceful ■ Reliable

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Terracon										LAB USE ONLY	
Office Location: Lubbock										DUE DATE:	
Laboratory: Xenco 6701 Aberdeen Lubbock, Texas 79424										WHEN RECEIVED (C)	
Project Manager: Joseph Guenier SRS #: Brady Thornton										Page 1 of 4	
Project Number: AR227020										CHAIN OF CUSTODY RECORD	
Project Name: JR Horiz Release										ANALYSIS REQUESTED	
Identifying Marks of Sample(s)										Chloride (EPA Method 300)	
Grab										TPH Extended 8015	
Comp										BTEX (EPA Method 8021b)	
Time										Hold	
Date										Lab Sample ID	
S	6/15/2022	1200	X	X	5 (5'-6')	5'	9'	40 ml VOA	X	X	
S	6/16/2022	1205	X	X	5 (10'-11')	10'	11'	5035 Kit	X	X	
S	6/16/2022	1310	X	X	5 (15'-16')	15'	16'	2 oz Glass	X	X	
S	6/16/2022	1315	X	X	5 (20'-21')	20'	21'	4 oz Glass	X	X	
S	6/16/2022	1320	X	X	5 (25'-26')	25'	26'	2 oz Glass	X	X	
S	6/16/2022	1325	X	X	5 (30'-31')	30'	31'	40 ml VOA	X	X	
S	6/16/2022	1345	X	X	6 (0'-1')	0'	1'	5035 Kit	X	X	
S	6/16/2022	1350	X	X	6 (5'-6')	5'	6'	2 oz Glass	X	X	
S	6/16/2022	1355	X	X	6 (10'-11')	10'	11'	40 ml VOA	X	X	
S	6/16/2022	1360	X	X	6 (15'-16')	15'	16'	5035 Kit	X	X	
S	6/16/2022	1365	X	X	6 (20'-21')	20'	21'	2 oz Glass	X	X	
S	6/16/2022	1370	X	X	6 (25'-26')	25'	26'	40 ml VOA	X	X	
S	6/16/2022	1375	X	X	6 (30'-31')	30'	31'	5035 Kit	X	X	
S	6/16/2022	1380	X	X	7 (0'-1')	0'	1'	2 oz Glass	X	X	
S	6/16/2022	1385	X	X	7 (5'-6')	5'	6'	40 ml VOA	X	X	
S	6/16/2022	1390	X	X	7 (10'-11')	10'	11'	5035 Kit	X	X	
S	6/16/2022	1395	X	X	7 (15'-16')	15'	16'	2 oz Glass	X	X	
S	6/16/2022	1400	X	X	7 (20'-21')	20'	21'	40 ml VOA	X	X	
S	6/16/2022	1405	X	X	7 (25'-26')	25'	26'	5035 Kit	X	X	
S	6/16/2022	1410	X	X	7 (30'-31')	30'	31'	2 oz Glass	X	X	
S	6/16/2022	1415	X	X	8 (0'-1')	0'	1'	40 ml VOA	X	X	
S	6/16/2022	1420	X	X	8 (5'-6')	5'	6'	5035 Kit	X	X	
S	6/16/2022	1425	X	X	8 (10'-11')	10'	11'	2 oz Glass	X	X	
S	6/16/2022	1430	X	X	8 (15'-16')	15'	16'	40 ml VOA	X	X	

TURNAROUND TIME		48-Hour Rush		24-Hour Rush	
Date	Time	Date	Time	Date	Time
6/17/22	10:20				

TURNAROUND TIME		48-Hour Rush		24-Hour Rush	
Date	Time	Date	Time	Date	Time
6/17/22	10:20				

TURNAROUND TIME		48-Hour Rush		24-Hour Rush	
Date	Time	Date	Time	Date	Time
6/17/22	10:20				

TURNAROUND TIME		48-Hour Rush		24-Hour Rush	
Date	Time	Date	Time	Date	Time
6/17/22	10:20				

TURNAROUND TIME		48-Hour Rush		24-Hour Rush	
Date	Time	Date	Time	Date	Time
6/17/22	10:20				

TURNAROUND TIME		48-Hour Rush		24-Hour Rush	
Date	Time	Date	Time	Date	Time
6/17/22	10:20				

TURNAROUND TIME		48-Hour Rush		24-Hour Rush	
Date	Time	Date	Time	Date	Time
6/17/22	10:20				

TURNAROUND TIME		48-Hour Rush		24-Hour Rush	
Date	Time	Date	Time	Date	Time
6/17/22	10:20				

TURNAROUND TIME		48-Hour Rush		24-Hour Rush	
Date	Time	Date	Time	Date	Time
6/17/22	10:20				

TURNAROUND TIME		48-Hour Rush		24-Hour Rush	
Date	Time	Date	Time	Date	Time
6/17/22	10:20				

TURNAROUND TIME		48-Hour Rush		24-Hour Rush	
Date	Time	Date	Time	Date	Time
6/17/22	10:20				

TURNAROUND TIME		48-Hour Rush		24-Hour Rush	
Date	Time	Date	Time	Date	Time
6/17/22	10:20				

TURNAROUND TIME		48-Hour Rush		24-Hour Rush	
Date	Time	Date	Time	Date	Time
6/17/22	10:20				

TURNAROUND TIME		48-Hour Rush		24-Hour Rush	
Date	Time	Date	Time	Date	Time
6/17/22	10:20				

TURNAROUND TIME		48-Hour Rush		24-Hour Rush	
Date	Time	Date	Time	Date	Time
6/17/22	10:20				

TURNAROUND TIME		48-Hour Rush		24-Hour Rush	
Date	Time	Date	Time	Date	Time
6/17/22	10:20				

TURNAROUND TIME		48-Hour Rush		24-Hour Rush	
Date	Time	Date	Time	Date	Time
6/17/22	10:20				

TURNAROUND TIME		48-Hour Rush		24-Hour Rush	
Date	Time	Date	Time	Date	Time
6/17/22	10:20				

TURNAROUND TIME		48-Hour Rush		24-Hour Rush	
Date	Time	Date	Time	Date	Time
6/17/22	10:20				

TURNAROUND TIME		48-Hour Rush		24-Hour Rush	
Date	Time	Date	Time	Date	Time
6/17/22	10:20				

TURNAROUND TIME		48-Hour Rush		24-Hour Rush	
Date	Time	Date	Time	Date	Time
6/17/22	10:20				

TURNAROUND TIME		48-Hour Rush		24-Hour Rush	
Date	Time	Date	Time	Date	Time
6/17/22	10:20				

TURNAROUND TIME		48-Hour Rush		24-Hour Rush	
Date	Time	Date	Time	Date	Time
6/17/22	10:20				

TURNAROUND TIME		48-Hour Rush		24-Hour Rush	
Date	Time	Date	Time	Date	Time
6/17/22	10:20				

TURNAROUND TIME		48-Hour Rush		24-Hour Rush	
Date	Time	Date	Time	Date	Time
6/17/22	10:20				

TURNAROUND TIME		48-Hour Rush		24-Hour Rush	
Date	Time	Date	Time	Date	Time
6/17/22	10:20				

TURNAROUND TIME		48-Hour Rush		24-Hour Rush	
Date	Time	Date	Time	Date	Time
6/17/22	10:20				

TURNAROUND TIME		48-Hour Rush		24-Hour Rush	
Date	Time	Date	Time	Date	Time
6/17/22	10:20				

TURNAROUND TIME		48-Hour Rush		24-Hour Rush	
Date	Time	Date	Time	Date	Time
6/17/22	10:20				

TURNAROUND TIME		48-Hour Rush		24-Hour Rush	
Date	Time	Date	Time	Date	Time
6/17/22	10:20				

TURNAROUND TIME		48-Hour Rush		24-Hour Rush	
Date	Time	Date	Time	Date	Time
6/17/22	10:20				

TURNAROUND TIME		48-Hour Rush		24-Hour Rush	
Date	Time	Date	Time	Date	Time
6/17/22	10:20				

TURNAROUND TIME		48-Hour Rush		24-Hour Rush	
Date	Time	Date	Time	Date	Time
6/17/22	10:20				

[illegible]

[illegible]

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 820-4663-1

SDG Number: AR227020

Login Number: 4663

List Number: 1

Creator: Ruggles, Ashley

List Source: Eurofins Lubbock

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 820-4663-1

SDG Number: AR227020

Login Number: 4663

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 06/20/22 08:11 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

APPENDIX E – WASTE MANIFEST

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

Incident ID	nAPP2200758512
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

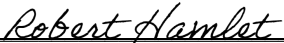
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public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

Printed Name: Rob Kirk Title: VP & GM, HSE & Compliance
Signature:  Date: 01/20/2023
email: rob.kirk@ariswater.com Telephone: O 575- 300-5155 C 469-978-5620

OCD Only

Received by: Jocelyn Harimon Date: 01/20/2023

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

Signature:  Date: 3/8/2023

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 177899

CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 907 Tradewinds Blvd, Suite B Midland, TX 79706	OGRID: 371643
	Action Number: 177899
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. Variance for terminating remedial efforts 4' is denied. Please safely remove the contaminated soil around high pressure lines with alternative methods. Contamination on roads will need to be sampled and remediated if present. The liner is only approved under the condition that as much contaminated soil is safely removed as possible. The excavation should be backfilled to 4 feet below surface with clean material, liner installed, and then backfilled to surface with clean material. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. Samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Confirmation samples should be collected every 200 ft2. Please include the results of the exploratory borehole in the closure report. A closure report will need to be completed and uploaded within 90 days.	3/8/2023