

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	nAPP2127444223
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Solaris Water, LLC	OGRID 371643
Contact Name Rob Kirk	Contact Telephone O 432-203-9020 C 469-978-5620
Contact email rob.kirk@ariswater.com	Incident # (assigned by OCD)
Contact mailing address 907 Tradewinds Blvd., Ste B, Midland, TX 79706	

Location of Release Source

Latitude 32.53834 Longitude -103.54314
(NAD 83 in decimal degrees to 5 decimal places)

Site Name 3Bear Libbey Solaris pipe connection	Site Type Pipeline
Date Release Discovered 09/09/21	API# (if applicable)

Unit Letter	Section	Township	Range	County
P	27	20S	34E	Lea

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

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) 250	Volume Recovered (bbls) 50
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release A pipe connection between two meters at the Libbey connection between 3Bear and Solaris Water failed release 250 BBLs of Produced Water with 50 BBLs recovered. Impacted footprint is approximately 4,000 sq. ft. running 400 feet horizontally and 2 to 40 feet vertically along an oil filed road and infrastructure. Operations were shut down immediately and the connection pipe was replaced.

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Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? The volume of produce water released.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Email and phone calls, and reporting to the NMOCD Web Portal by Rob Kirk, Solaris Water.	

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: 11/9/2022
email: rob.kirk@ariswater.com	Telephone: 469-978-5620
<u>OCD Only</u>	
Received by: Jocelyn Harimon	Date: 11/09/2022

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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?	684 (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.

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Oil Conservation Division

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

Printed Name: Rob Kirk Title: VP & GM, HSE & Compliance
Signature:  Date: 11/9/22
email: rob.kirk@ariswater.com Telephone: 469-978-5620

OCD Only

Received by: Jocelyn Harimon Date: 11/09/2022

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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: 11/9/22
email: rob.kirk@ariswater.com Telephone: 469-978-5620

OCD Only

Received by: Jocelyn Harimon Date: 11/09/2022

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

Signature: _____ Date: _____

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Closure

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

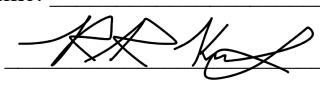
Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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

Printed Name: Rob Kirk

Title: VP & GM, HSE & Compliance

Signature: 

Date: 11/9/22

email: rob.kirk@ariswater.com

Telephone: 469-978-5620

OCD Only

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Date: 11/09/2022

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

Closure Approved by: 

Date: 12/09/2022

Printed Name: Jennifer Nobui

Title: Environmental Specialist A

Solaris Water Midstream
Libbey Connection Release
P-27-20S-34E
NMOCD Reference # nAPP2127444223
Terracon Project # AR217165



Closure Report

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

RE: **Closure Report**
Libbey Connection Midstream
Unit P, Section 27, Township 20 South, Range 34 East
Lea County, New Mexico
Terracon Project No. AR217165

Dear Mr. Kirk,

Terracon Consultants, Inc. (Terracon) is pleased to submit our Release Investigation and Closure report for the site referenced above. The Release Investigation and Closure report 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 took the following actions to achieve protection of fresh water and the environment in accordance with NMOCD regulations. Terracon developed the Release Investigation and Closure Report in general accordance with our scope of work (AR17165) dated April 12, 2022.

Action Items

Completed Actions

- 1) Vertical delineation has been achieved.
- 2) Horizontal delineation has been achieved.
- 3) Confirmation samples were collected every 200 sq. ft.
- 4) Remediation was executed according to landowner's remediation standards. All soils were remediated to the most stringent NMOCD RALs.

Anticipated Actions

- 1) NMOCD Approval

Closure Documentation

LH West A 6 inch (Drip Tank) ■ Eddy County, New Mexico

October 28, 2022 ■ Terracon Project No. KH227003



Should you have any questions, please contact the undersigned at (806) 300 0140.

Sincerely,

Terracon

Prepared by:

Reviewed by:



Joseph Guesnier
Senior Staff Scientist
Lubbock



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

Attachments

Appendix A – Exhibits

Exhibit 1 – Topo Map

Exhibit 2 – Site Map

Exhibit 3 – Confirmation Soil Sampling Map

Exhibit 4 – NMOSE POD Location Map

Exhibit 5 – Cave Karst Public UCP Map

Appendix B – Tables Procedures, and Figures

Table 1 – Soil Sample Analytical Results – BTEX, Chloride, and TPH

Appendix C – Analytical Report and Chain of Custody

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Attachments:

Appendix A – Exhibits

- Exhibit 1 – Topographic Map
- Exhibit 2 – Site Map
- Exhibit 3 – Initial Site Investigation Map
- Exhibit 4 – Supplemental Site Investigation Map
- Exhibit 5 – Confirmation Sample Location Map
- Exhibit 6 – Confirmation Sample Results Map (1-32)
- Exhibit 7 – Confirmation Sample Results Map (33-64)
- Exhibit 8 – Confirmation Sample Results Map (65-96)
- Exhibit 9 – Confirmation Sample Results Map (97-122)
- Exhibit 10 – NMOSE POD Location Map
- Exhibit 11 – 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

**Solaris Water Midstream
Libbey Connection Release
P-27-20S-34E
NMOCD Reference # nAPP2127444223**



Incident Information

The following table provides detailed information regarding the September 9, 2021 produced water release at the Libbey Pipeline Connection site in Lea County, New Mexico:

Required Information	Site and Release information	
Responsible party	The facility is operated by Solaris Water Midstream LLC, but this release originated from a 3Bear Energy line.	
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 spill notifications email by Rob Kirk (Aris) on September 9, 2021.	
Facility description	Libbey Pipeline Connection is in Lea County, New Mexico. It is an approximate 1-acre area located within Unit P, Section 27, Township 20 South, Range 34 East, approximately 25 miles west of Eunice, New Mexico. The site is predominantly undeveloped native pastureland.	
Time of incident	September 9, 2021 discovered at 10:00 a.m.	
Discharge event	The cause of the release at the high-pressure line was determined to be a malfunctioning joint at the surface. Site illustrated in Exhibit 2 of Appendix A.	
Type of discharge	The documented fluids release occurred in open native pastureland at the Libbey Pipeline Connection site and is affected at the surface to depth.	
Quantity of spilled material	Total Fluids: 250 bbls	Produced Water: 250 bbls
Site characteristics	Relatively flat with drainage following the native ground surface; very gently sloping to the southeast.	
Immediate corrective actions	Produced water was recovered utilizing vac trucks. A backhoe was utilized to berm up the area to reduce additional impacts to the surrounding area. Once the free fluids were removed the backhoe was utilized to scrape up the affected surface soils, and stockpiled onsite.	

**Solaris Water Midstream
Libbey Connection Release
P-27-20S-34E
NMOCD Reference # nAPP2127444223**



General Site Characteristics	
Remedial Determining Information	Site Ranking Characteristics
Facility description Site Map – (Exhibit 2 in Appendix A)	Libbey Pipeline Connection is in Lea County, New Mexico. It is an approximate 1-acre area located within Unit P, Section 27, Township 20 South, Range 34 East, approximately 25 miles west of Eunice, New Mexico. The site is predominantly 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 southeast.
Groundwater NMOSE POD Location Map – (Exhibit 6 in Appendix A)	<u>POD Number:</u> (CP-01330-POD1) <u>Depth to Groundwater:</u> 684 ft. bgs <u>Distance to Well:</u> 0.50 miles to the southwest <u>Date Drilled:</u> May 22, 2014
	<u>Groundwater Quality:</u> Groundwater quality at the site is predominately used for commercial oil and gas production and is currently in use.
100-year flood plain	Area is not within a 100-year flood plain.
Surface Water	Laguna Gatuna (West-Central Lea County, NM), approximately 9 miles to the northwest.
Soil Characteristics	Soils at the site are mapped as Berino-Cacique loamy fine sands association, linear shaped slopes, well-drained, 0 to 12 inches loamy fine sand, 12 to 18 inches sandy clay loam, 28 to 38 inches cemented material. This soil has a surface layer of loamy fine sand. Restrictive features are present at 28 inches bgs resulting in the formation being categorized with a very 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 low-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 solid competent rock was encountered from 36 to 48 inches bgs within the release margins. The full extent of release quantities and excavation activities did extend greater than 60 inches bgs.

**Solaris Water Midstream
Libbey Connection Release
P-27-20S-34E
NMOCD Reference # nAPP2127444223**



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. Sections detailed below the applicability of these guidance documents to the site-specific characteristics associated with the Libbey Connection Release.

Reclamation Levels (Surface to 4 ft. bgs)

The below 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	20,000 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

**Solaris Water Midstream
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Soil Investigation Discussion

During Terracon's October 12, 2021 and March 1, 2022 release investigation activities, a total of 64 soil samples were collected from the site and analyzed for BTEX, chloride, and/or TPH. A total of 60 samples were collected from within the release margins, and four samples were collected outside of the impacted area to evaluate background concentrations.

Background Data Evaluation

A total of four discrete soil samples were collected from two background locations in up-gradient positions relative to the release extent. All samples were analyzed for the presence of BTEX and TPH. The four analyzed samples did not exhibit concentrations of BTEX or TPH constituents above applicable laboratory Sample Detection Levels (SDLs), as summarized in Table 2.

Each of the four background samples collected were analyzed for the presence of chloride. The detected chloride concentrations ranged from 8.07 mg/kg in soil sample BG-2 (1.5 ft bgs to 2 ft bgs) to 12.3 mg/kg in soil sample BG-1 (surface to 0.5 ft bgs), 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

■ Reclamation Assessment Data Evaluation

Benzene, BTEX, and Total TPH was not detected above applicable laboratory SDLs in the 28 of the 59 soil samples analyzed within Reclamation Assessment target depths, as summarized in Table 2.

Chloride was detected above applicable laboratory SDLs in 56 of the 59 soil samples analyzed within the Reclamation Assessment target depths. The chloride concentrations ranged from 12 mg/kg in soil sample HA-6.1 (0.5 ft bgs to 1 ft bgs) to 6,710 mg/kg in soil sample HA-13 (surface to 0.5 ft bgs). Of the 59 soil samples analyzed, 30 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

At boring location HA-3, a soil sample was collected and analyzed from the 4.5 to 5 ft. bgs interval for the presence of chlorides, Benzene, Total BTEX, and Total TPH.

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**Solaris Water Midstream
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The detected chloride concentration in sample HA-3 (4.5 to 5 ft. bgs) was 169 mg/kg. The detected chloride concentration at depths greater than 4 ft. bgs did not exceed the applicable NMOCD Remediation Action Limit of 20,000 mg/kg, as summarized in Table 2.

It should be noted that soil borings were terminated due auger refusal upon encountered cemented caliche layer.

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.

Of the 64 soil samples analyzed, 30 soil samples exhibited chloride concentrations above the applicable NMOCD Reclamation Action Limit of 600 mg/kg. None of the soil samples analyzed for chlorides exceeded the NMOCD Remediation Action Limit for samples collected deeper than 4 ft. bgs.

It is anticipated that released produced water associated chlorides consolidated upon the cemented layer of the Maljamar Formation at 50 to 60 inches bgs. Based on the proximity of the analyzed samples to this restrictive layer and the magnitude of the concentrations being elevated above 600 mg/kg but below 20,000 mg/kg, Terracon collected additional vertical delineation samples and analyzed for the presence of chlorides at this restrictive zone to ensure that concentrations were not elevated further at this restrictive interphase.

Confirmation Soil Sampling Discussion

During Terracon's August 4, 2022 and August 23, 2022 confirmation soil sampling activities, a total of 135 soil samples were collected from the site and analyzed for BTEX, chloride, and/or TPH. A total of 118 samples were collected from the floor of the excavation, and 17 samples were collected from the walls of the excavation.

Confirmation Sampling Data Evaluation

■ Floor Sampling Data Evaluation

Benzene was detected above applicable laboratory SDLs in the one of the 118 soil samples analyzed within the floor samples collected. The sample CS-51 (3 ft bgs to 3.5 ft bgs) did not exceed the applicable NMOCD Remediation Action Limit of 10 mg/kg for benzene, as summarized in Table 2.

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Total BTEX was detected above applicable laboratory SDLs in the two of the 118 soil samples analyzed within the floor samples collected. The soil samples CS-71 (3 ft bgs to 3.5 ft bgs) and CS-61 (3 ft bgs to 3.5 ft bgs) did not exceed the applicable NMOCD Remediation Action Limit of 50 mg/kg for total BTEX, as summarized in Table 2.

Total TPH was not detected above applicable laboratory SDLs in the 118 soil samples analyzed within the floor samples collected. The floor soil samples collected did not exceed the applicable NMOCD Remediation Action Limit of 100 mg/kg of total TPH, as summarized in Table 2.

Chloride was detected above applicable laboratory SDLs in 109 of the 118 soil samples analyzed within the floor confirmation samples. The chloride concentrations ranged from 5.21 mg/kg in soil sample CS-4 (4 ft bgs to 5 ft bgs) to 4,770 mg/kg in soil sample CS-81 (3 ft bgs to 3.5 ft bgs). Of the 118 soil samples analyzed, eight soil samples exhibited chloride concentrations above the applicable NMOCD Reclamation Assessment Limit of 600 mg/kg. Subsequent sampling events following further excavation demonstrated that all soil sampling locations were below the NMOCD RALs as summarized in Table 2.

■ **Wall Sampling Data Evaluation**

Based on the review of the above confirmation sampling analytical results, the presence of petroleum hydrocarbon constituents (Benzene/BTEX/TPH) were not detected at concentrations above applicable laboratory SDLs/or NMOCD RALs, as summarized in Table 2.

Chloride was detected above applicable laboratory SDLs in each of the 17 soil samples analyzed within the wall confirmation samples. The chloride concentrations ranged from 5.47 mg/kg in soil sample CS-117 (1.5 ft bgs to 2 ft bgs) to 10,400 mg/kg in soil sample CS-121 (1.5 ft bgs to 2 ft bgs). Of the 17 soil samples analyzed, five soil samples exhibited chloride concentrations above the applicable NMOCD Reclamation Assessment Limit of 600 mg/kg. Subsequent sampling events demonstrated that all soil sampling locations were below the NMOCD RALs as summarized in Table 2.

Confirmation Sampling Data Summary

Based on the review of the above release investigation analytical results, the presence of petroleum hydrocarbon constituents (Benzene/BTEX/TPH) were not detected at concentrations above applicable NMOCD Reclamation and/or Remediation Action Limits.

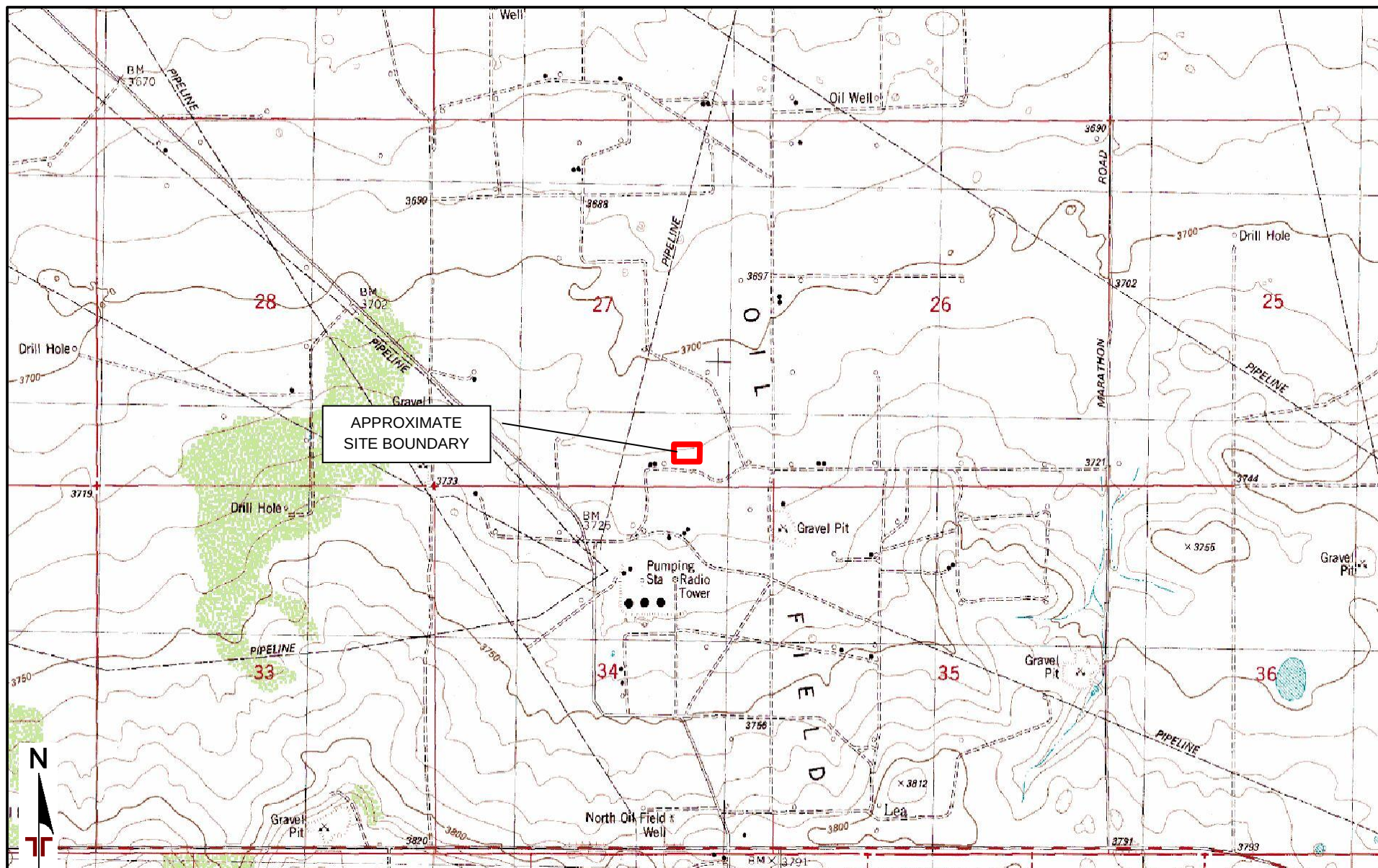
Of the 17 soil samples analyzed, five soil samples exhibited chloride concentrations above the applicable NMOCD Reclamation Action Limit of 600 mg/kg. None of the final soil samples analyzed for chlorides exceeded the NMOCD Remediation Action Limit for samples collected from surface to 4 ft. bgs.

Solaris Water Midstream
 Libbey Connection Release
 P-27-20S-34E
 NMOCD Reference # nAPP2127444223



Soil Management Plan	
Soil Objectives	Approach Actions
General Soil Plan	Soils within the inferred release area above the most conservative NMOCD RALs were exhumed and disposed of at R360 midway, and fresh backfill was brought in from the landowner's source pit.
Reclamation Response Objectives	Following the NMOCD RALs for soils from surface to 4 ft. bgs. All soils above 600 mg/kg for chlorides were removed and stockpiled for disposal at R360 midway, additional soil removed at landowner's insistence was taken to Lazy Ace Land Farm.
Remediation Response Objectives	Following landowner confirmation all soils were removed to meet the most stringent NMOCD RALs. Samples were titrated and confirmed by laboratory analysis to confirm all soils were below 600 mg/kg for chlorides.
Soil Management	All exhumed soils were staged and stockpiled on 20mm plastic after excavation activities, while awaiting trucking availability.
Depth of Remediation Confirmation Soil Map – (Figure 5 in Appendix A)	3 ft. bgs – 8 ft. bgs
Disposal Facility Waste Manifest – (Appendix E)	R360 halfway / Lazy Ace Land Farm
Quantity Disposed Waste Manifest – (Appendix E)	3,604 cubic yards / 320 cubic yards Total Cubic Yards: 3,924

APPENDIX A – EXHIBITS



TOPOGRAPHIC MAP IMAGE COURTESY OF
THE U.S. GEOLOGICAL SURVEY
QUADRANGLES INCLUDE: LEA, NM
(1/1/1984).

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

Project Manager:
Joe Guesnier

Drawn by:
Austin Worley

Checked by: Joe G

Approved by: Joe G

Project No.
AR217165

Scale: 1"=2 000'

File Name: Libbey

Date: 9/22/22



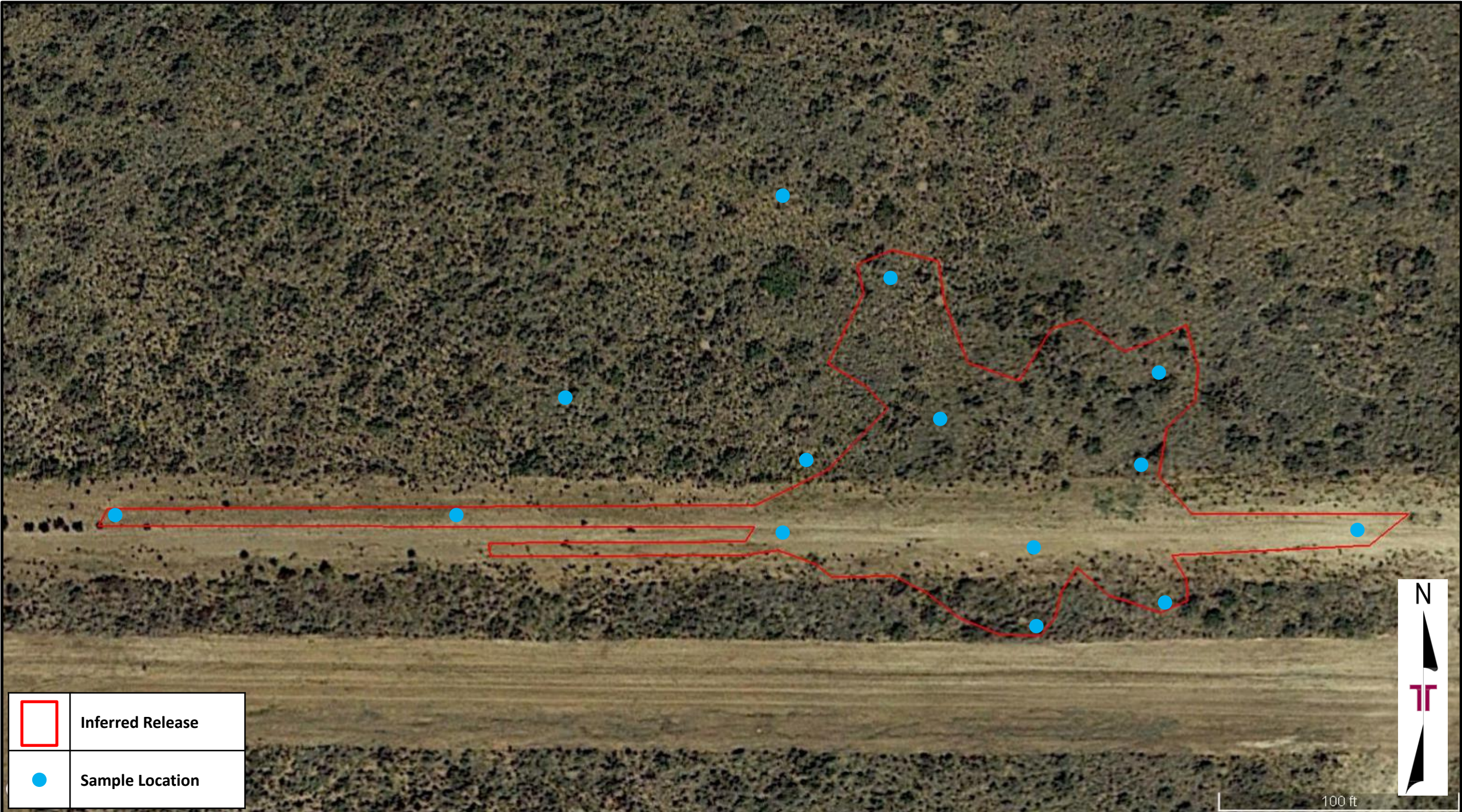
5847 50th Street
Lubbock, Texas 79424

Exhibit 1 TOPOGRAPHIC MAP

Libbey Connection Release
32.538269°, -103.543172°
Lea County, New Mexico

Exhibit

1



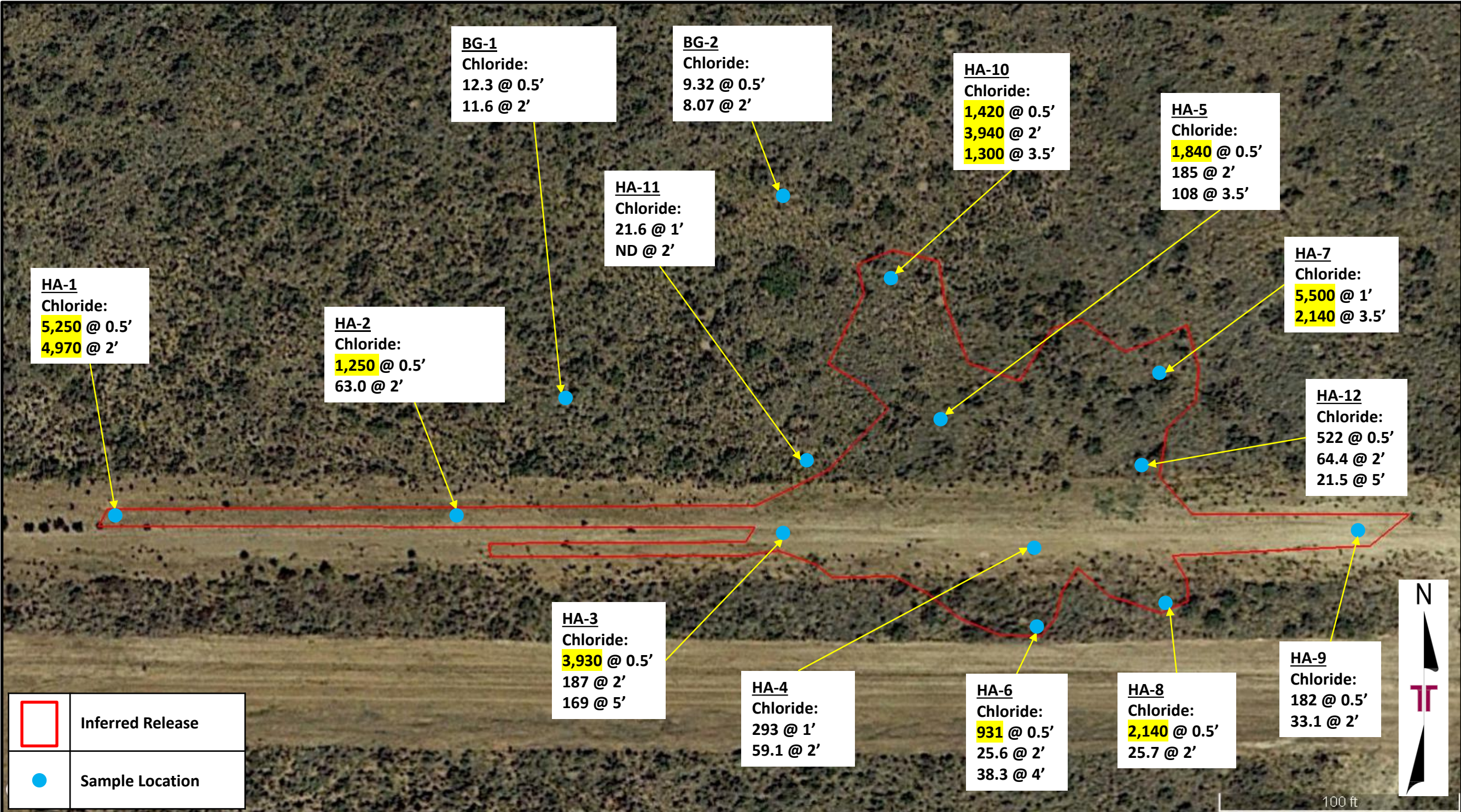
	Inferred Release
	Sample Location

Project No.	AR217165
Scale:	As Shown
Source:	Google Earth
Date:	2018

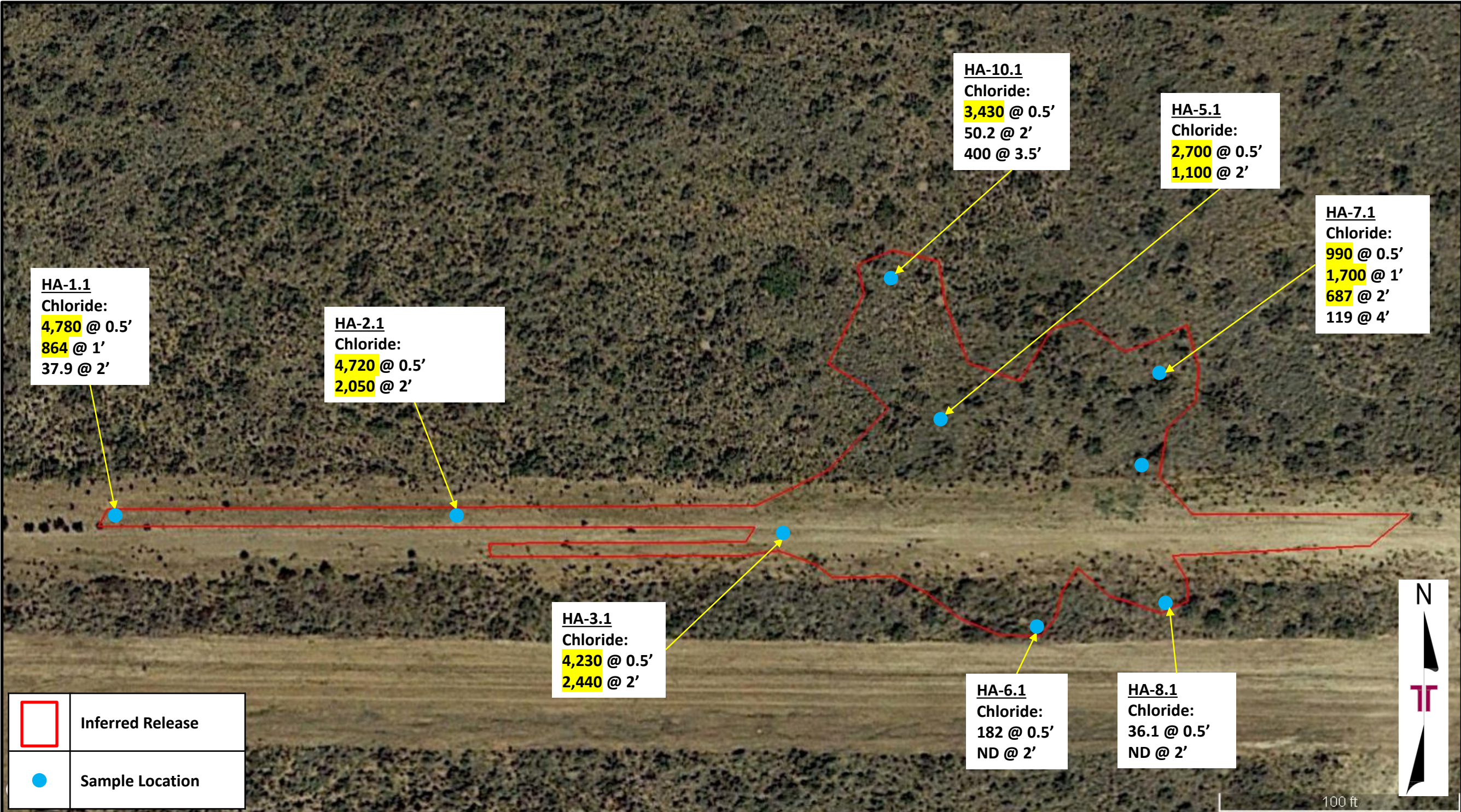


5847 50th St. Lubbock, Texas 79424
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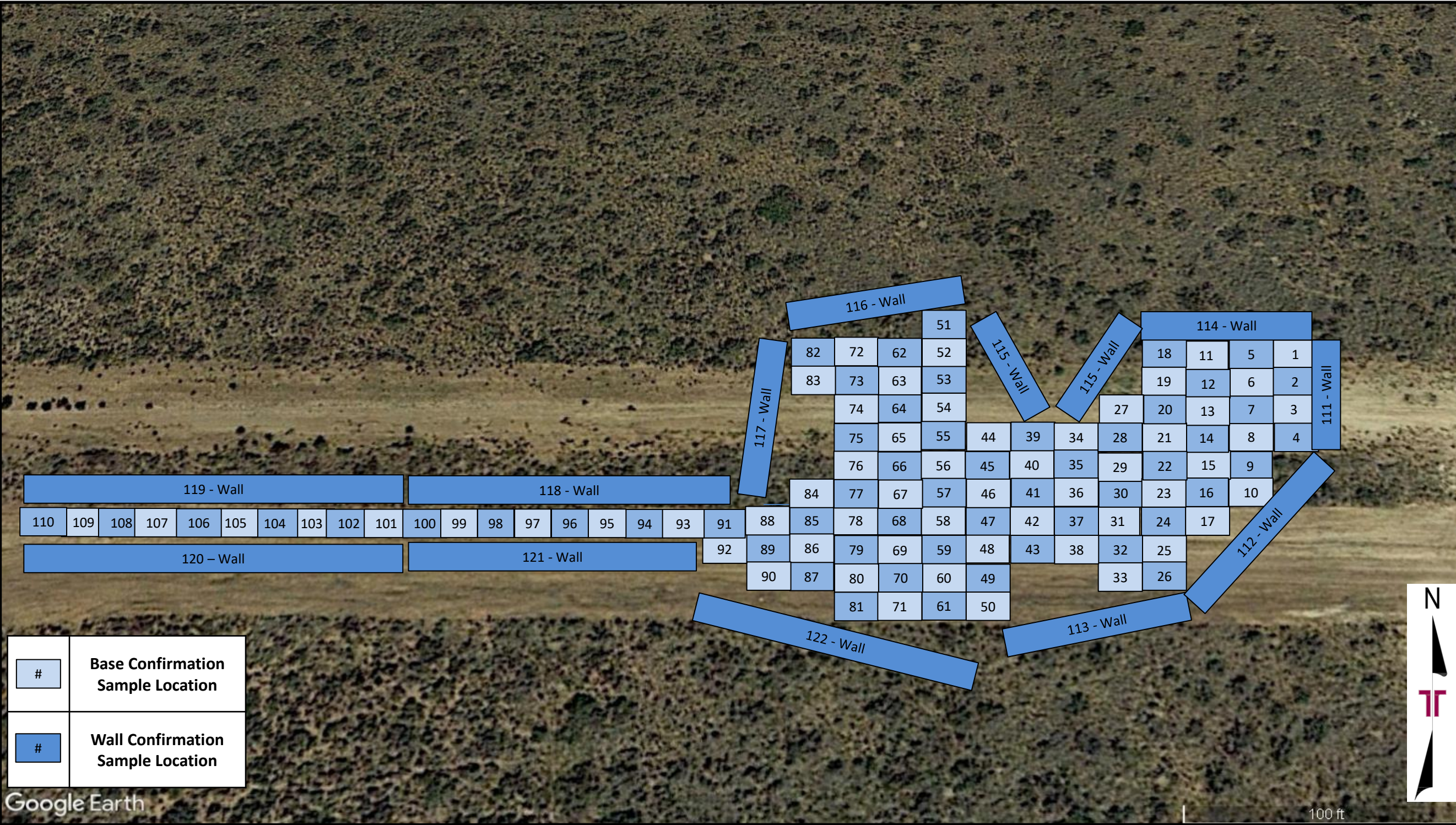
Exhibit 2 – Site Map
Libbey Connection Release 32.538269°, -103.543172° Lea County, New Mexico



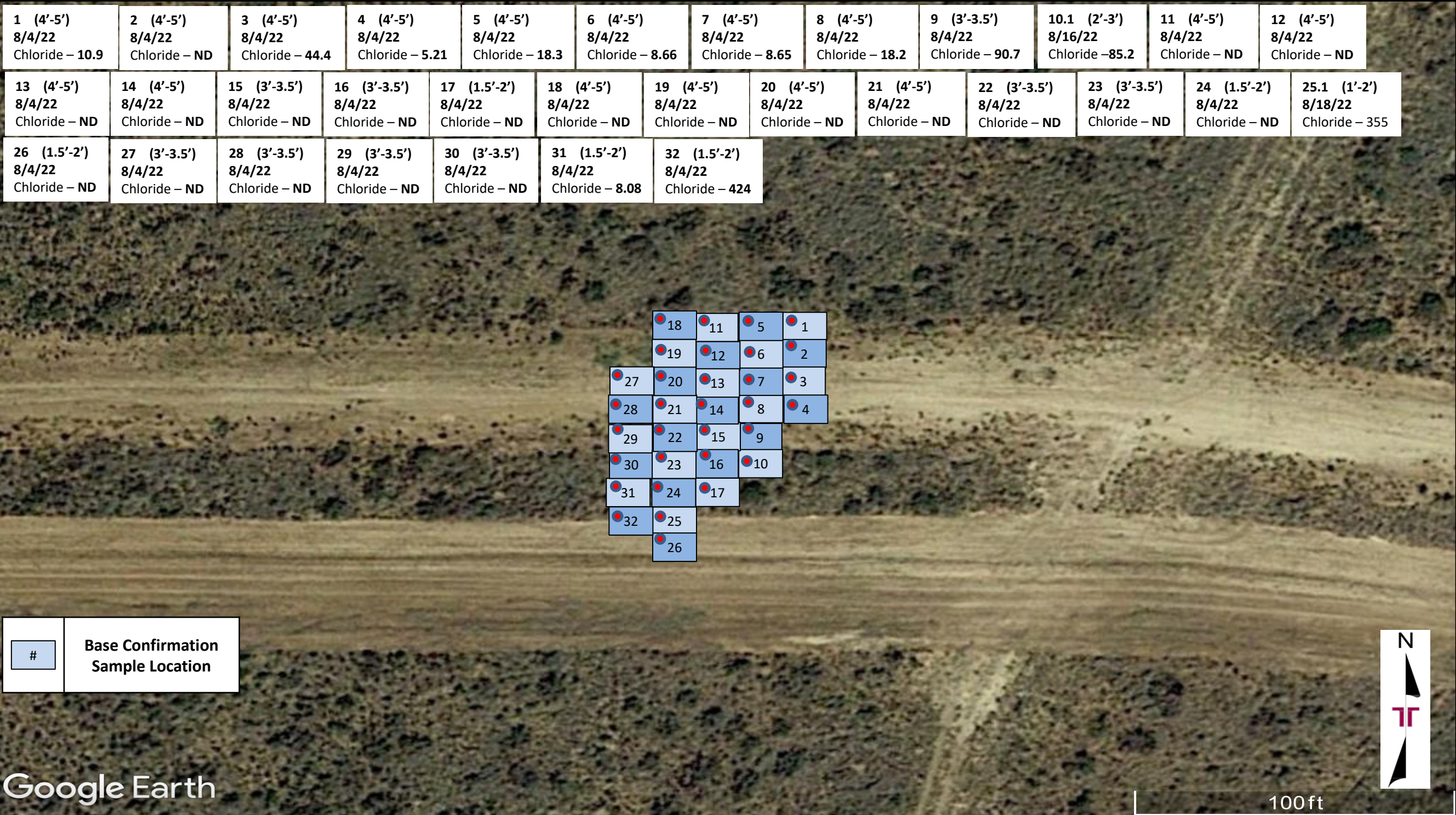
Project No.	AR217165	 5847 50th St. Lubbock, Texas 79424 PH. (806) 300-0104 FAX. (806) 797 0947	Exhibit 3 – Concentration Map	
Scale:	As Shown		Libbey Connection Release	
Source:	Google Earth		32.538269°, -103.543172°	
Date:	2018		Lea County, New Mexico	



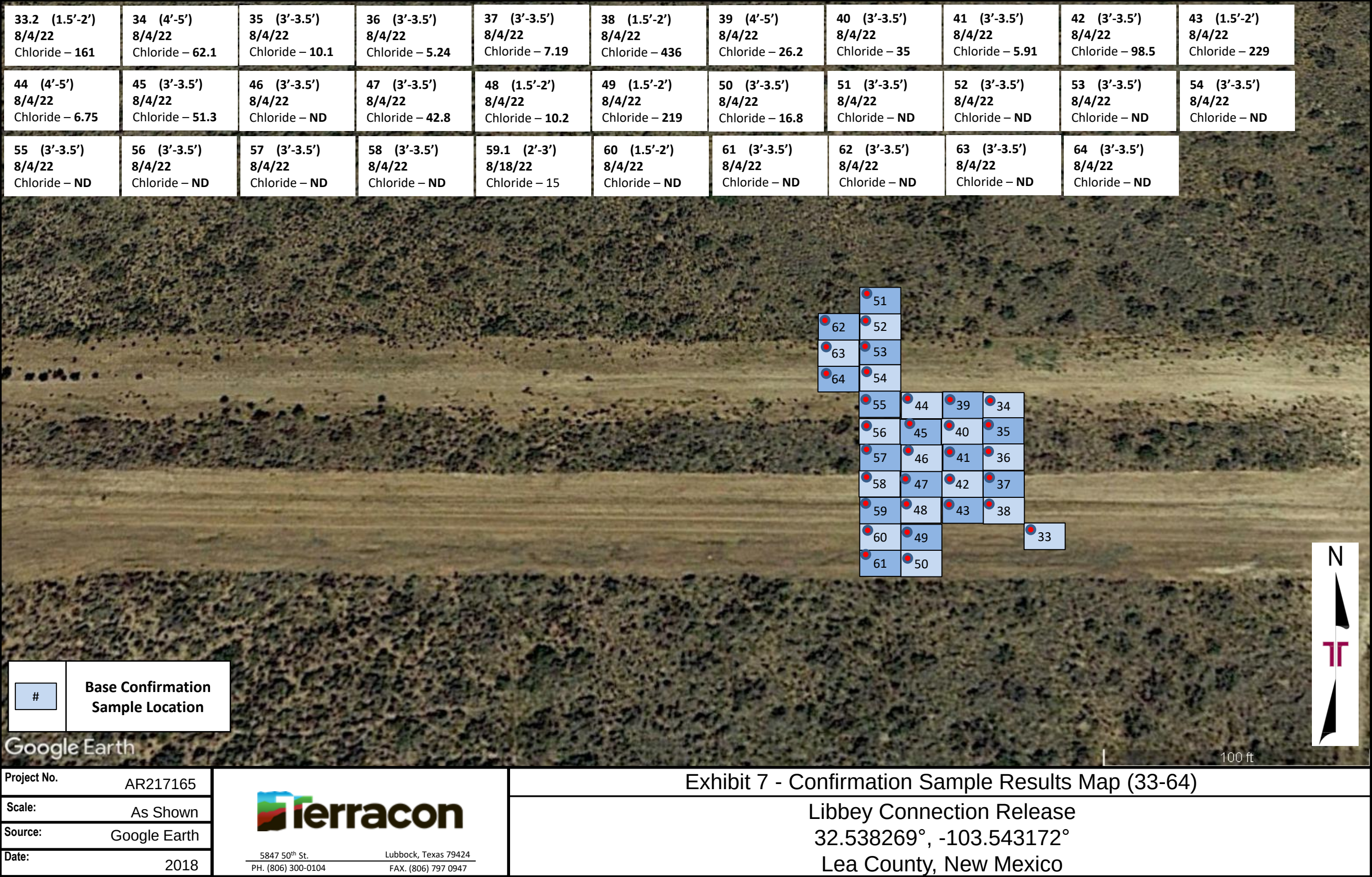
Project No. AR217165		Exhibit 4 – Supplemental Concentration Map	
Scale:	As Shown		
Source:	Google Earth		
Date:	2018		
		Libbey Connection Release	
5847 50 th St. Lubbock, Texas 79424		32.538269°, -103.543172°	
PH. (806) 300-0104 FAX. (806) 797 0947		Lea County, New Mexico	



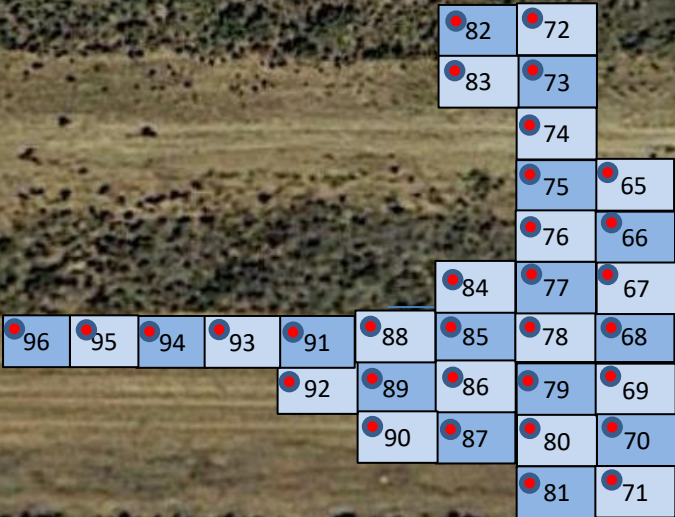
Project No.	AR217165	Exhibit 5 – Confirmation Sample Location Map Libbey Connection Release 32.538269°, -103.543172° Lea County, New Mexico	
Scale:	As Shown		
Source:	Google Earth		
Date:	2018		
Terracon 5847 50th St. PH. (806) 300-0104 Lubbock, Texas 79424 FAX. (806) 797 0947			



Project No.	AR217165	 5847 50th St. Lubbock, Texas 79424 PH. (806) 300-0104 FAX. (806) 797 0947	Exhibit 6 - Confirmation Sample Results Map (1-32)	
Scale:	As Shown		Libbey Connection Release 32.538269°, -103.543172° Lea County, New Mexico	
Source:	Google Earth			
Date:	2018			



65 (3'-3.5') 8/4/22 Chloride – ND	66 (3'-3.5') 8/4/22 Chloride – 62.1	67 (3'-3.5') 8/4/22 Chloride – 10.1	68 (3'-3.5') 8/4/22 Chloride – 5.24	69.1 (2'-3') 8/18/22 Chloride – 20.8	70 (1.5'-2') 8/4/22 Chloride – 436	71 (3'-3.5') 8/4/22 Chloride – 14.4	72 (3'-3.5') 8/4/22 Chloride – 24.5	73 (3'-3.5') 8/4/22 Chloride – 56.3	74 (3'-3.5') 8/4/22 Chloride – 7.62	75 (3'-3.5') 8/4/22 Chloride – ND
76 (3'-3.5') 8/4/22 Chloride – ND	77 (3'-3.5') 8/4/22 Chloride – 9.45	78 (3'-3.5') 8/4/22 Chloride – 13	79 (1.5'-2') 8/4/22 Chloride – 179	80 (1.5'-2') 8/4/22 Chloride – 6.71	81.1 (0'-1') 8/18/22 Chloride – 19.9	82 (3'-3.5') 8/4/22 Chloride – 7.45	83 (3'-3.5') 8/4/22 Chloride – 8.59	84 (3'-3.5') 8/4/22 Chloride – 6.39	85 (3'-3.5') 8/4/22 Chloride – 36.2	86 (1.5'-2') 8/4/22 Chloride – 28.1
87 (1.5'-2') 8/4/22 Chloride – ND	88 (3'-3.5') 8/4/22 Chloride – 472	89 (1.5'-2') 8/4/22 Chloride – ND	90 (1.5'-2') 8/4/22 Chloride – 13.2	91 (3'-3.5') 8/4/22 Chloride – 12.4	92 (1.5'-2') 8/4/22 Chloride – 26.4	93 (3'-3.5') 8/4/22 Chloride – 8.18	94 (3'-3.5') 8/4/22 Chloride – 11.5	95 (3'-3.5') 8/4/22 Chloride – 12.2	96 (3'-3.5') 8/4/22 Chloride – 102	



#	Base Confirmation Sample Location

Google Earth

Project No.	AR217165
Scale:	As Shown
Source:	Google Earth
Date:	2018

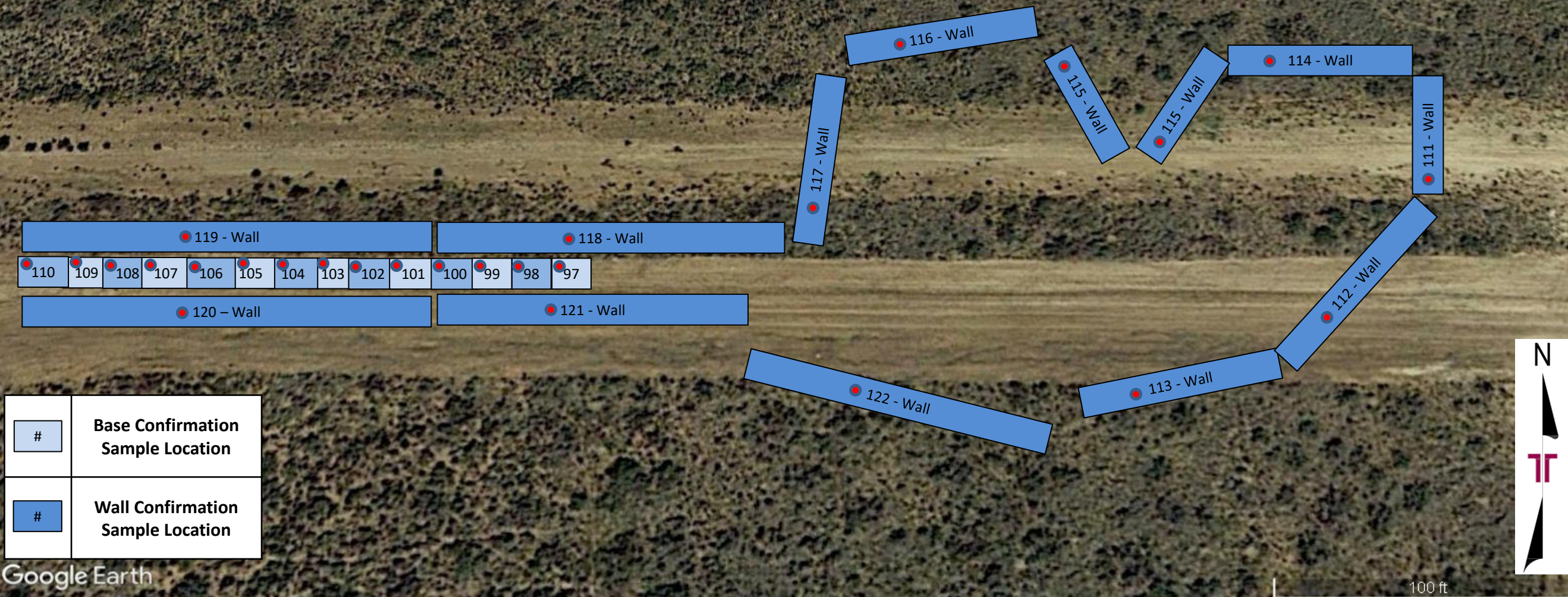


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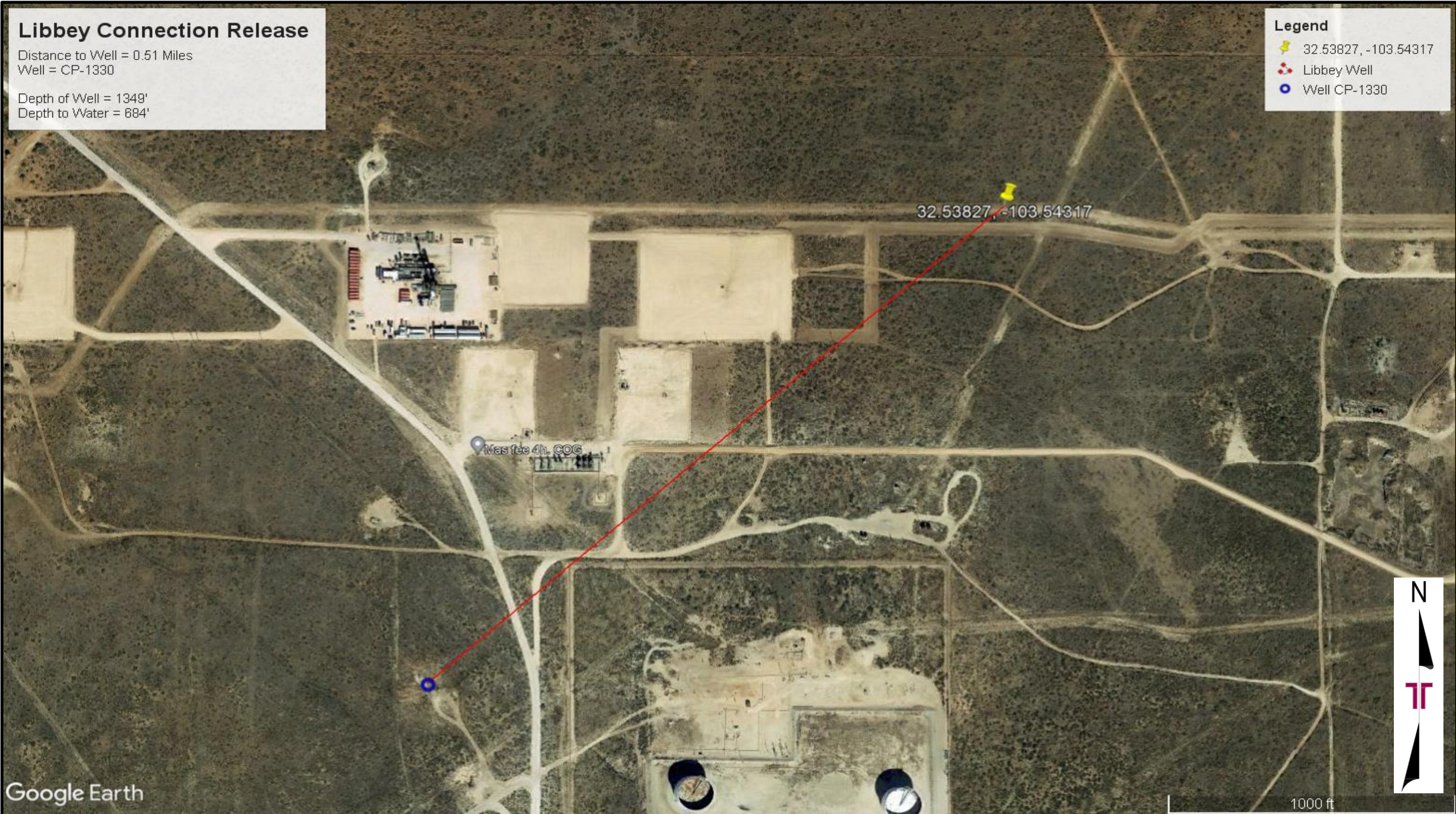
Exhibit 8 - Confirmation Sample Results Map (65-96)

Libbey Connection Release
32.538269°, -103.543172°
Lea County, New Mexico

97 (3'-3.5') 8/4/22 Chloride – 44	98 (3'-3.5') 8/4/22 Chloride – 21.2	99 (3'-3.5') 8/4/22 Chloride – 13.3	100 (3'-3.5') 8/4/22 Chloride – 8.55	101 (3'-3.5') 8/4/22 Chloride – 18.1	102 (3'-3.5') 8/4/22 Chloride – 27.3	103 (3'-3.5') 8/4/22 Chloride – 11.3	104 (3'-3.5') 8/4/22 Chloride – 9.87	105 (3'-3.5') 8/4/22 Chloride – 11.9	106 (3'-3.5') 8/4/22 Chloride – 41.9	107 (3'-3.5') 8/4/22 Chloride – 5.65
108 (3'-3.5') 8/16/22 Chloride – 492	109 (3'-3.5') 8/4/22 Chloride – 57.9	110 (3'-3.5') 8/4/22 Chloride – ND	111 (1.5'-2') 8/4/22 Chloride – 440	112 (1.5'-2') 8/4/22 Chloride – 6.52	113 (1.5'-2') 8/4/22 Chloride – 26.4	114 (1.5'-2') 8/4/22 Chloride – 37.5	115 (1.5'-2') 8/4/22 Chloride – 52.3	116 (1.5'-2') 8/4/22 Chloride – 11.4	117 (1.5'-2') 8/4/22 Chloride – 5.47	118 (1.5'-2') 8/4/22 Chloride – 440
119.1 (.5'-2') 8/4/22 Chloride – 40	120 SW (0'-2') 8/18/22 Chloride – 17.7	121 SW (0'-2') 8/18/22 Chloride – 15	122.1 (1.5'-2') 8/4/22 Chloride – 82.6							



Project No.	AR217165	Terracon Consulting Engineers & Scientists 5847 50th St. Lubbock, Texas 79424 PH. (806) 300-0104 FAX. (806) 797 0947	Exhibit 9 - Confirmation Sample Results Map (97-122)	
Scale:	As Shown		Libbey Connection Release	
Source:	Google Earth		32.538269°, -103.543172°	
Date:	2022		Lea County, New Mexico	



Project No.	AR217165	Exhibit 10 - NMOSE POD Location Map	
Scale:	As Shown	Libbey Connection Release	
Source:	Google Earth	32.53827°, -103.54317°	
Date:	2018	Lea, New Mexico	

5847 50 th St. PH. (806) 300-0104	Lubbock, Texas 79424 FAX. (806) 797 0947



Project No.	AR217165	Exhibit 11 - Cave Karst Public UCP Map	
Scale:	As Shown	Libbey Connection Release 32.538269°, -103.543172° Lea County, New Mexico	
Source:	Google Earth		
Date:	2018		
			
5847 50 th St. Lubbock, Texas 79424			
PH. (806) 300-0104 FAX. (806) 797 0947			

APPENDIX B – TABLES, PROCEDURES, AND FIGURES

2018 JUL 24 PM 3:12

Table I 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 8015M	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 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	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 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	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 test 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.
[19.15.29.12 NMAC - N, 8/14/2018]

19.15.29.13 RESTORATION, RECLAMATION AND RE-VEGETATION:

- A. The responsible party must substantially restore the impacted surface areas to the condition that existed prior to the release or their final land use. Restoration of the site must include the replacement of removed material and must be replaced to the near original relative positions and contoured to achieve erosion control, long-term stability and preservation of surface water flow patterns.
- B. Areas reasonably needed for production operations or for subsequent drilling operations must be compacted, covered, paved or otherwise stabilized and maintained in such a way as to minimize dust and erosion to the extent practical.
- C. The responsible party must construct the soil cover to the site's existing grade and prevent ponding of water and erosion of the cover material.
- D. **Reclamation of areas no longer in use.** The responsible party shall reclaim all areas disturbed by the remediation and closure, except areas reasonably needed for production operations or for subsequent drilling

TABLE 2 SOIL SAMPLE ANALYTICAL RESULTS - BTEX ¹ , Chloride ² , and TPH ³ Libbey Terracon Project No. AR217165									
Sample I.D.	Sample Depth (ft. bgs)	Sample Type	Sample Date	BTEX (mg/kg)	Chloride (mg/kg)	TPH (8015M) (mg/kg)			
						GRO	DRO	MRO	TOTAL
Background Samples									
BG-1 (0-0.5)	0 - 0.5	Grab	10/12/21	Benzene - ND Total BTEX - ND	12.3	ND	ND	ND	ND
BG-1 (1.5-2)	1.5 - 2	Grab	10/12/21	Benzene - ND Total BTEX - ND	11.6	ND	ND	ND	ND
BG-2 (0-0.5)	0 - 0.5	Grab	10/12/21	Benzene - ND Total BTEX - ND	9.32	ND	ND	ND	ND
BG-2 (1.5-2)	1.5 - 2	Grab	10/12/21	Benzene - ND Total BTEX - ND	8.07	ND	ND	ND	ND
Release Investigation Samples									
HA-1 (0-0.5)	0 - 0.5	Grab	10/12/21	Benzene - ND Total BTEX - ND	5,250	ND	ND	ND	ND
HA-1 (1.5-2)	1.5 - 2	Grab	10/12/21	Benzene - ND Total BTEX - ND	4,970	ND	ND	ND	ND
HA-2 (0-0.5)	0 - 0.5	Grab	10/12/21	Benzene - ND Total BTEX - ND	1,250	ND	ND	ND	ND
HA-2 (1.5-2)	1.5 - 2	Grab	10/12/21	Benzene - ND Total BTEX - ND	63	ND	ND	ND	ND
HA-3 (0-0.5)	0 - 0.5	Grab	10/12/21	Benzene - ND Total BTEX - ND	3,930	ND	ND	ND	ND
HA-3 (1.5-2)	1.5 - 2	Grab	10/12/21	Benzene - ND Total BTEX - ND	187	ND	ND	ND	ND
HA-3 (4.5-5)	4.5 - 5	Grab	10/12/21	Benzene - ND Total BTEX - ND	169	ND	ND	ND	ND
HA-4 (0.5-1)	0.5 - 1	Grab	10/12/21	Benzene - ND Total BTEX - ND	293	ND	ND	ND	ND
HA-4 (1.5-2)	1.5 - 2	Grab	10/12/21	Benzene - ND Total BTEX - ND	59.1	ND	ND	ND	ND
HA-5 (0-0.5)	0 - 0.5	Grab	10/12/21	Benzene - ND Total BTEX - ND	1,840	ND	ND	ND	ND
HA-5 (1.5-2)	1.5 - 2	Grab	10/12/21	Benzene - ND Total BTEX - ND	185	ND	ND	ND	ND
HA-5 (3.5-4)	3.5 - 4	Grab	10/12/21	Benzene - ND Total BTEX - ND	108	ND	ND	ND	ND
HA-6 (0-0.5)	0 - 0.5	Grab	10/12/21	Benzene - ND Total BTEX - ND	931	ND	ND	ND	ND
HA-6 (1.5-2)	1.5 - 2	Grab	10/12/21	Benzene - ND Total BTEX - ND	25.6	ND	ND	ND	ND
HA-6 (3.5-4)	3.5 - 4	Grab	10/12/21	Benzene - ND Total BTEX - ND	38.3	ND	ND	ND	ND
HA-7 (0.5-1)	0.5 - 1	Grab	10/12/21	Benzene - ND Total BTEX - ND	5,500	ND	ND	ND	ND
HA-7 (3-3.5)	3 - 3.5	Grab	10/12/21	Benzene - ND Total BTEX - ND	2,140	ND	ND	ND	ND
HA-8 (0-0.5)	0 - 0.5	Grab	10/12/21	Benzene - ND Total BTEX - ND	2,140	ND	ND	ND	ND
HA-8 (1.5-2)	1.5 - 2	Grab	10/12/21	Benzene - ND Total BTEX - ND	25.7	ND	ND	ND	ND
HA-9 (0-0.5)	0 - 0.5	Grab	10/12/21	Benzene - ND Total BTEX - ND	182	ND	ND	ND	ND
HA-9 (1.5-2)	1.5 - 2	Grab	10/12/21	Benzene - ND Total BTEX - ND	33.1	ND	ND	ND	ND
HA-10 (0-0.5)	0 - 0.5	Grab	10/12/21	Benzene - ND Total BTEX - ND	1,420	ND	ND	ND	ND
HA-10 (1.5-2)	1.5 - 2	Grab	10/12/21	Benzene - ND Total BTEX - ND	3,940	ND	ND	ND	ND
HA-10 (3-3.5)	3 - 3.5	Grab	10/12/21	Benzene - ND Total BTEX - ND	1,300	ND	ND	ND	ND
HA-11 (0.5-1)	0.5 - 1	Grab	10/12/21	Benzene - ND Total BTEX - ND	21.6	ND	ND	ND	ND
HA-11 (1.5-2)	1.5 - 2	Grab	10/12/21	Benzene - ND Total BTEX - ND	ND	ND	ND	ND	ND
HA-12 (0-0.5)	0 - 0.5	Grab	10/12/21	Benzene - ND Total BTEX - ND	522	ND	ND	ND	ND
HA-12 (1.5-2)	1.5 - 2	Grab	10/12/21	Benzene - ND Total BTEX - ND	64.4	ND	ND	ND	ND
HA-12 (3-3.5)	3 - 3.5	Grab	10/12/21	Benzene - ND Total BTEX - ND	21.5	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

ND = Constituent not detected above the indicated laboratory SDL

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 Libbey Terracon Project No. AR217165									
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
Additional Delineation Sampling									
HA-1.1 (0-0.5)	0 - 0.5	Grab	03/01/22	Benzene - NA Total BTEX - NA	4,780	NA	NA	NA	NA
HA-1.1 (0.5-1)	0.5 - 1	Grab	03/01/22	Benzene - NA Total BTEX - NA	864	NA	NA	NA	NA
HA-1.1 (1.5-2)	1.5 - 2	Grab	03/01/22	Benzene - NA Total BTEX - NA	37.9	NA	NA	NA	NA
HA-1.1 (3.5-4)	3.5 - 4	Grab	03/01/22	Benzene - NA Total BTEX - NA	34.4	NA	NA	NA	NA
HA-2.1 (0-0.5)	0 - 0.5	Grab	03/01/22	Benzene - NA Total BTEX - NA	4,720	NA	NA	NA	NA
HA-2.1 (0.5-1)	0.5 - 1	Grab	03/01/22	Benzene - NA Total BTEX - NA	3,610	NA	NA	NA	NA
HA-2.1 (1.5-2)	1.5 - 2	Grab	03/01/22	Benzene - NA Total BTEX - NA	2,050	NA	NA	NA	NA
HA-3.1 (0-0.5)	0 - 0.5	Grab	03/01/22	Benzene - NA Total BTEX - NA	4,230	NA	NA	NA	NA
HA-3.1 (0.5-1)	0.5 - 1	Grab	03/01/22	Benzene - NA Total BTEX - NA	2,730	NA	NA	NA	NA
HA-3 (1.5-2)	1.5 - 2	Grab	03/01/22	Benzene - NA Total BTEX - NA	2,440	NA	NA	NA	NA
HA-5.1 (0-0.5)	0 - 0.5	Grab	03/01/22	Benzene - NA Total BTEX - NA	2,700	NA	NA	NA	NA
HA-5.1 (0.5-1)	0.5 - 1	Grab	03/01/22	Benzene - NA Total BTEX - NA	1,010	NA	NA	NA	NA
HA-5.1 (1.5-2)	1.5 - 2	Grab	03/01/22	Benzene - NA Total BTEX - NA	1,100	NA	NA	NA	NA
HA-6.1 (0-0.5)	0 - 0.5	Grab	03/01/22	Benzene - NA Total BTEX - NA	182	NA	NA	NA	NA
HA-6.1 (0.5-1)	0.5 - 1	Grab	03/01/22	Benzene - NA Total BTEX - NA	12	NA	NA	NA	NA
HA-6.1 (1.5-2)	1.5 - 2	Grab	03/01/22	Benzene - NA Total BTEX - NA	ND	NA	NA	NA	NA
HA-7.1 (0-0.5)	0 - 0.5	Grab	03/01/22	Benzene - NA Total BTEX - NA	990	NA	NA	NA	NA
HA-7.1 (0.5-1)	0.5 - 1	Grab	03/01/22	Benzene - NA Total BTEX - NA	1,700	NA	NA	NA	NA
HA-7.1 (1.5-2)	1.5 - 2	Grab	03/01/22	Benzene - NA Total BTEX - NA	687	NA	NA	NA	NA
HA-7.1 (3.5-4)	3.5 - 4	Grab	03/01/22	Benzene - NA Total BTEX - NA	119	NA	NA	NA	NA
HA-8.1 (0-0.5)	0 - 0.5	Grab	03/01/22	Benzene - NA Total BTEX - NA	36.1	NA	NA	NA	NA
HA-8.1 (0.5-1)	0.5 - 1	Grab	03/01/22	Benzene - NA Total BTEX - NA	13	NA	NA	NA	NA
HA-8.1 (1.5-2)	1.5 - 2	Grab	03/01/22	Benzene - NA Total BTEX - NA	ND	NA	NA	NA	NA
HA-10.1 (0-0.5)	0 - 0.5	Grab	03/01/22	Benzene - NA Total BTEX - NA	3,430	NA	NA	NA	NA
HA-10.1 (0.5-1)	0.5 - 1	Grab	03/01/22	Benzene - NA Total BTEX - NA	582	NA	NA	NA	NA
HA-10.1 (1.5-2)	1.5 - 2	Grab	03/01/22	Benzene - NA Total BTEX - NA	50.2	NA	NA	NA	NA
HA-10.1 (3.5-4)	3.5 - 4	Grab	03/01/22	Benzene - NA Total BTEX - NA	400	NA	NA	NA	NA
HA-13 (0-0.5)	0 - 0.5	Grab	03/01/22	Benzene - NA Total BTEX - NA	6,710	NA	NA	NA	NA
HA-13 (0.5-1)	0.5 - 1	Grab	03/01/22	Benzene - NA Total BTEX - NA	1,580	NA	NA	NA	NA
HA-13 (1.5-2)	1.5 - 2	Grab	03/01/22	Benzene - NA Total BTEX - NA	943	NA	NA	NA	NA
HA-13 (3.5-4)	3.5 - 4	Grab	03/01/22	Benzene - NA Total BTEX - NA	23.8	NA	NA	NA	NA
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

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 Libbey Terracon Project No. AR217165									
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
Vertical Confirmation Samples									
VS-1	4.5' - 5'	Grab	08/04/22	Benzene - ND BTEX - ND	6.77	ND			
VS-2	4.5' - 5'	Grab	08/04/22	Benzene - ND BTEX - ND	7.51	ND			
VS-3	4.5' - 5'	Grab	08/04/22	Benzene - ND BTEX - ND	6.20	ND			
VS-4	4.5' - 5'	Grab	08/04/22	Benzene - ND BTEX - ND	13.5	ND			
VS-5	4.5' - 5'	Grab	08/04/22	Benzene - ND BTEX - ND	7.47	ND			
VS-6	4.5' - 5'	Grab	08/04/22	Benzene - ND BTEX - ND	9.48	ND			
VS-7	4.5' - 5'	Grab	08/04/22	Benzene - ND BTEX - ND	552	ND			
VS-8	4.5' - 5'	Grab	08/04/22	Benzene - ND BTEX - ND	183	ND			
VS-9	4.5' - 5'	Grab	08/04/22	Benzene - ND BTEX - ND	181	ND			
VS-10	4.5' - 5'	Grab	08/04/22	Benzene - ND BTEX - ND	6.77	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)

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

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TABLE 2 SOIL SAMPLE ANALYTICAL RESULTS - BTEX ¹ , Chloride ² , and TPH ³ Libbey Terracon Project No. AR217165									
Sample I.D.	Sample Depth (ft. bgs)	Sample Type	Sample Date	BTEX (mg/kg)	Chloride (mg/kg)	TPH (8015M) (mg/kg)			
						GRO	DRO	MRO	TOTAL
Confirmation Samples (Floor)									
CS-1	4' -5'	Comp	08/04/22	Benzene - ND BTEX - ND	10.9	ND			
CS-2	4' -5'	Comp	08/04/22	Benzene - ND BTEX - ND	ND	ND			
CS-3	4' -5'	Comp	08/04/22	Benzene - ND BTEX - ND	44.4	ND			
CS-4	4' -5'	Comp	08/04/22	Benzene - ND BTEX - ND	5.21	ND			
CS-5	4' -5'	Comp	08/04/22	Benzene - ND BTEX - ND	18.3	ND			
CS-6	4' -5'	Comp	08/04/22	Benzene - ND BTEX - ND	8.66	ND			
CS-7	4' -5'	Comp	08/04/22	Benzene - ND BTEX - ND	8.65	ND			
CS-8	4' -5'	Comp	08/04/22	Benzene - ND BTEX - ND	18.2	ND			
CS-9	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	90.7	ND			
CS-10	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	652	ND			
CS-10.1	2' - 3'	Comp	08/16/22	Benzene - ND BTEX - ND	85.2	ND			
CS-11	4' -5'	Comp	08/04/22	Benzene - ND BTEX - ND	14.5	ND			
CS-12	4' -5'	Comp	08/04/22	Benzene - ND BTEX - ND	5.60	ND			
CS-13	4' -5'	Comp	08/04/22	Benzene - ND BTEX - ND	ND	ND			
CS-14	4' -5'	Comp	08/04/22	Benzene - ND BTEX - ND	9.95	ND			
CS-15	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	238	ND			
CS-16	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	20.1	ND			
CS-17	1.5' - 2'	Comp	08/04/22	Benzene - ND BTEX - ND	9.14	ND			
CS-18	4' - 5'	Comp	08/04/22	Benzene - ND BTEX - ND	139	ND			
CS-19	4' - 5'	Comp	08/04/22	Benzene - ND BTEX - ND	19.8	ND			
CS-20	4' - 5'	Comp	08/04/22	Benzene - ND BTEX - ND	10.5	ND			
CS-21	4' - 5'	Comp	08/04/22	Benzene - ND BTEX - ND	ND	ND			
CS-22	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	34.9	ND			
CS-23	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	8.86	ND			
CS-24	1.5' - 2'	Comp	08/04/22	Benzene - ND BTEX - ND	16.1	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

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TABLE 2 SOIL SAMPLE ANALYTICAL RESULTS - BTEX ¹ , Chloride ² , and TPH ³ Libbey Terracon Project No. AR217165								
Sample I.D.	Sample Depth (ft. bgs)	Sample Type	Sample Date	BTEX (mg/kg)	Chloride (mg/kg)	TPH (8015M) (mg/kg)		
						GRO	DRO	MRO
Confirmation Samples (Section 1)								
CS-25	1.5' - 2'	Comp	08/04/22	Benzene - ND BTEX - ND	834	ND		
CS-25.1	1' - 2'	Comp	08/18/22	Benzene - ND BTEX - ND	355	ND		
CS-26	1.5' - 2'	Comp	08/04/22	Benzene - ND BTEX - ND	178	ND		
CS-27	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	12.5	ND		
CS-28	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	12.8	ND		
CS-29	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	18.1	ND		
CS-30	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	5.34	ND		
CS-31	1.5' - 2'	Comp	08/04/22	Benzene - ND BTEX - ND	8.08	ND		
CS-32	1.5' - 2'	Comp	08/04/22	Benzene - ND BTEX - ND	424	ND		
CS-33	1.5' - 2'	Comp	08/04/22	Benzene - ND BTEX - ND	1,940	ND		
CS-33.1	2' - 3'	Comp	08/16/22	Benzene - ND BTEX - ND	918	ND		
CS-33.2	3' - 4'	Comp	08/23/22	Benzene - ND BTEX - ND	161	ND		
CS-34	4' - 5'	Comp	08/04/22	Benzene - ND BTEX - ND	62.1	ND		
CS-35	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	10.1	ND		
CS-36	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	5.24	ND		
CS-37	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	7.19	ND		
CS-38	1.5' - 2'	Comp	08/04/22	Benzene - ND BTEX - ND	436	ND		
CS-39	4' - 5'	Comp	08/04/22	Benzene - ND BTEX - ND	3,380	ND		
CS-39.1	7' - 8'	Comp	08/16/22	Benzene - ND BTEX - ND	26.2	ND		
CS-40	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	35	ND		
CS-41	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	5.91	ND		
CS-42	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	98.5	ND		
CS-43	1.5' - 2'	Comp	08/04/22	Benzene - ND BTEX - ND	229	ND		
CS-44	4' - 5'	Comp	08/04/22	Benzene - ND BTEX - ND	6.75	ND		
CS-45	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	51.3	ND		
CS-46	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	ND	ND		
CS-47	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	42.8	ND		
CS-48	1.5' - 2'	Comp	08/04/22	Benzene - ND BTEX - ND	10.2	ND		
CS-49	1.5' - 2'	Comp	08/04/22	Benzene - ND BTEX - ND	219	ND		
CS-50	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	16.8	ND		
CS-51	3' - 3.5'	Comp	08/04/22	Benzene - 0.00281 BTEX - ND	35.5	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)

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TABLE 2 SOIL SAMPLE ANALYTICAL RESULTS - BTEX ¹ , Chloride ² , and TPH ³ Libbey Terracon Project No. AR217165									
Sample I.D.	Sample Depth (ft. bgs)	Sample Type	Sample Date	BTEX (mg/kg)	Chloride (mg/kg)	TPH (8015M) (mg/kg)			
						GRO	DRO	MRO	TOTAL
Confirmation Samples (Section 2)									
CS-52	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	22.9	ND			
CS-53	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	67.9	ND			
CS-54	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	50.9	ND			
CS-55	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	130	ND			
CS-56	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	68.9	ND			
CS-57	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	12.4	ND			
CS-58	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	104	ND			
CS-59	1.5' - 2'	Comp	08/04/22	Benzene - ND BTEX - ND	659	ND			
CS-59.1	2' - 3'	Comp	08/18/22	Benzene - ND BTEX - ND	15	ND			
CS-60	1.5' - 2'	Comp	08/04/22	Benzene - ND BTEX - ND	7.99	ND			
CS-61	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - 0.00697	29.4	ND			
CS-62	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	7.23	ND			
CS-63	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	18.1	ND			
CS-64	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	41.4	ND			
CS-65	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	38.1	ND			
CS-66	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	18.7	ND			
CS-67	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	12.6	ND			
CS-68	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	10.1	ND			
CS-69	1.5' - 2'	Comp	08/04/22	Benzene - ND BTEX - ND	775	ND			
CS-69.1	2' - 3'	Comp	08/18/22	Benzene - ND BTEX - ND	20.8	ND			
CS-70	1.5' - 2'	Comp	08/04/22	Benzene - ND BTEX - ND	10	ND			
CS-71	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - 0.0245	14.4	ND			
CS-72	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	24.5	ND			
CS-73	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	56.3	ND			
CS-74	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	7.62	ND			
CS-75	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	ND	ND			
CS-76	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	ND	ND			
CS-77	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	9.45	ND			
CS-78	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	13	ND			
CS-79	1.5' - 2'	Comp	08/04/22	Benzene - ND BTEX - ND	179	ND			
CS-80	1.5' - 2'	Comp	08/04/22	Benzene - ND BTEX - ND	6.71	ND			
CS-81	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	4,770	ND			
CS-81.1	0' - 1'	Comp	08/18/22	Benzene - ND BTEX - ND	19.9	ND			
CS-82	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	7.45	ND			
CS-83	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	8.59	ND			
CS-84	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	6.39	ND			
CS-85	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	36.2	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.

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Sample I.D.	Sample Depth (ft. bgs)	Sample Type	Sample Date	BTEX (mg/kg)	Chloride (mg/kg)	TPH (8015M) (mg/kg)			
						GRO	DRO	MRO	TOTAL
Confirmation Samples (Section 3)									
CS-86	1.5' - 2'	Comp	08/04/22	Benzene - ND BTEX - ND	28.1	ND			
CS-87	1.5' - 2'	Comp	08/04/22	Benzene - ND BTEX - ND	ND	ND			
CS-88	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	472	ND			
CS-89	1.5' - 2'	Comp	08/04/22	Benzene - ND BTEX - ND	ND	ND			
CS-90	1.5' - 2'	Comp	08/04/22	Benzene - ND BTEX - ND	13.2	ND			
CS-91	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	12.4	ND			
CS-92	1.5' - 2'	Comp	08/04/22	Benzene - ND BTEX - ND	26.4	ND			
CS-93	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	8.18	ND			
CS-94	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	11.5	ND			
CS-95	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	12.2	ND			
CS-96	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	102	ND			
CS-97	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	44	ND			
CS-98	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	21.2	ND			
CS-99	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	13.3	ND			
CS-100	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	8.55	ND			
CS-101	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	18.1	ND			
CS-102	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	27.3	ND			
CS-103	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	11.3	ND			
CS-104	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	9.87	ND			
CS-105	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	11.9	ND			
CS-106	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	41.9	ND			
CS-107	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	5.65	ND			
CS-108	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	492	ND			
CS-109	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	57.9	ND			
CS-110	3' - 3.5'	Comp	08/04/22	Benzene - ND BTEX - ND	ND	ND			
Confirmation Samples (Walls)									
CS-111	1.5' - 2'	Comp	08/04/22	Benzene - ND BTEX - ND	440	ND			
CS-112	1.5' - 2'	Comp	08/04/22	Benzene - ND BTEX - ND	6.52	ND			
CS-113	1.5' - 2'	Comp	08/04/22	Benzene - ND BTEX - ND	26.4	ND			
CS-114	1.5' - 2'	Comp	08/04/22	Benzene - ND BTEX - ND	37.5	ND			
CS-115	1.5' - 2'	Comp	08/04/22	Benzene - ND BTEX - ND	52.3	ND			
CS-116	1.5' - 2'	Comp	08/04/22	Benzene - ND BTEX - ND	11.4	ND			
CS-117	1.5' - 2'	Comp	08/04/22	Benzene - ND BTEX - ND	5.47	ND			
CS-118	1.5' - 2'	Comp	08/04/22	Benzene - ND BTEX - ND	440	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

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TABLE 2 SOIL SAMPLE ANALYTICAL RESULTS - BTEX ¹ , Chloride ² , and TPH ³ Libbey Terracon Project No. AR217165									
Sample I.D.	Sample Depth (ft. bgs)	Sample Type	Sample Date	BTEX (mg/kg)	Chloride (mg/kg)	TPH (8015M) (mg/kg)			
						GRO	DRO	MRO	TOTAL
Confirmation Samples (Walls)									
CS-119	1.5' - 2'	Comp	08/04/22	Benzene - ND BTEX - ND	8,360	ND			
CS-SW-119.1	.5' - 2'	Comp	08/16/22	Benzene - ND BTEX - ND	40	ND			
CS-120	1.5' - 2'	Comp	08/04/22	Benzene - ND BTEX - ND	4,990	ND			
CS-120 SW	0' - 2'	Comp	08/18/22	Benzene - ND BTEX - ND	17.7	ND			
CS-121	1.5' - 2'	Comp	08/04/22	Benzene - ND BTEX - ND	10,400	ND			
CS-121 SW	0' - 2'	Comp	08/18/22	Benzene - ND BTEX - ND	15	ND			
CS-122	1.5' - 2'	Comp	08/04/22	Benzene - ND BTEX - ND	2,340	ND			
CS-SW-122.1	.5' - 2'	Comp	08/16/22	Benzene - ND BTEX - ND	5,990	ND			
CS-SW-122.2	.5' - 2'	Comp	08/23/22	Benzene - ND BTEX - ND	82.6	ND			
Confirmation Samples (Stockpile)									
SP-F	-	Comp	08/04/22	Benzene - ND BTEX - ND	202	ND			
SP-1	-	Comp	08/18/22	Benzene - ND BTEX - ND	23.4	ND			
SP-2	-	Comp	08/18/22	Benzene - ND BTEX - ND	571	ND			
SP-3	-	Comp	08/18/22	Benzene - ND BTEX - ND	288	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

Libbey Connection Release ■ Eddy County, New Mexico
September 21, 2022 ■ Terracon Project No. AR217165

Terracon

PHOTO 1: View of background sample location.



PHOTO 2: View of background sample location.

Responsive ■ Resourceful ■ Reliable

Libbey Connection Release ■ Eddy County, New Mexico
September 21, 2022 ■ Terracon Project No. AR217165

Terracon

PHOTO 3: View of delineation sample location.



PHOTO 4: View of delineation sample location.

Responsive ■ Resourceful ■ Reliable

Libbey Connection Release ■ Eddy County, New Mexico
September 21, 2022 ■ Terracon Project No. AR217165

Terracon

PHOTO 5: View of delineation sample location.



PHOTO 6: View of delineation sample location.

Responsive ■ Resourceful ■ Reliable

Libbey Connection Release ■ Eddy County, New Mexico
September 21, 2022 ■ Terracon Project No. AR217165

Terracon



PHOTO 7: View of delineation sample location.



PHOTO 8: View of the delineation sample location.

Responsive ■ Resourceful ■ Reliable

Libbey Connection Release ■ Eddy County, New Mexico
September 21, 2022 ■ Terracon Project No. AR217165

Terracon

PHOTO 9: View of delineation sample location.



PHOTO 10: View of delineation sample location.

Responsive ■ Resourceful ■ Reliable

Libbey Connection Release ■ Eddy County, New Mexico
September 21, 2022 ■ Terracon Project No. AR217165

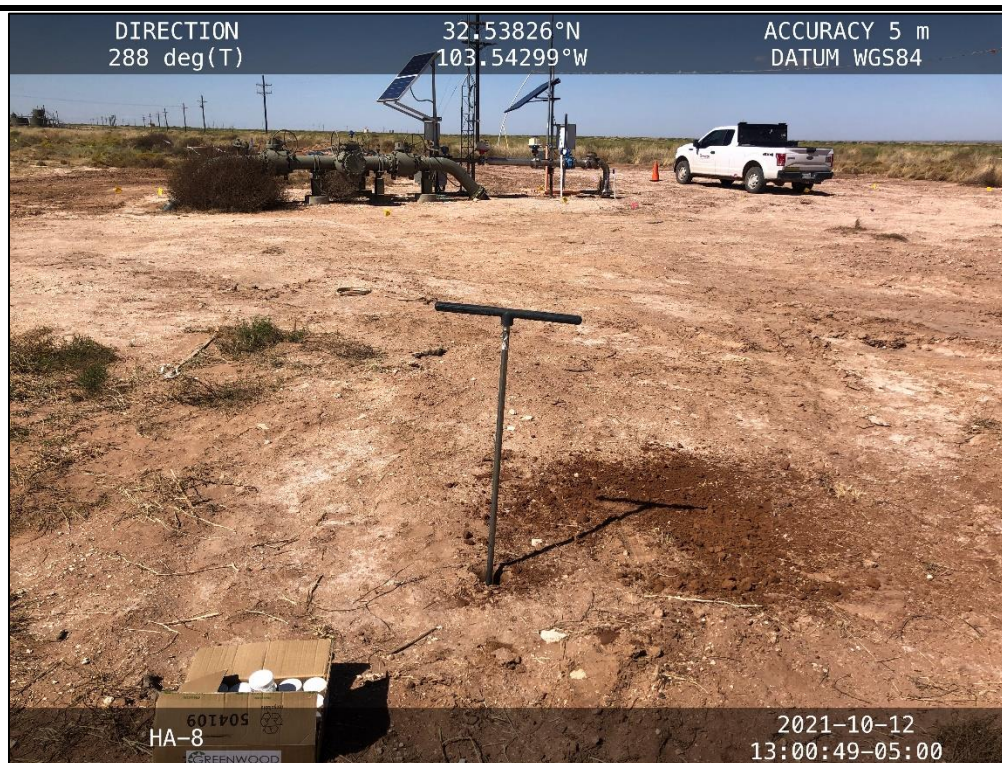
Terracon

PHOTO 11: View of delineation sample location.



PHOTO 12: View of delineation sample location.

Responsive ■ Resourceful ■ Reliable

Libbey Connection Release ■ Eddy County, New Mexico
September 21, 2022 ■ Terracon Project No. AR217165

Terracon

PHOTO 13: View of delineation sample location.



PHOTO 14: View of delineation sample location.

Responsive ■ Resourceful ■ Reliable

Libbey Connection Release ■ Eddy County, New Mexico
September 21, 2022 ■ Terracon Project No. AR217165

Terracon



PHOTO 16: View of excavation area CS33



PHOTO 17: View of excavation area CS39

Responsive ■ Resourceful ■ Reliable

Libbey Connection Release ■ Eddy County, New Mexico
September 21, 2022 ■ Terracon Project No. AR217165

Terracon



PHOTO 18: View of excavation



PHOTO 19: View of excavation

Responsive ■ Resourceful ■ Reliable

Libbey Connection Release ■ Eddy County, New Mexico
September 21, 2022 ■ Terracon Project No. AR217165

Terracon

PHOTO 20: View of backfilling of excavation



PHOTO 15: View of backfilling of excavation

Responsive ■ Resourceful ■ Reliable

APPENDIX D – ANALYTICAL REPORT AND CHAIN OF CUSTODY



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 820-2232-1

Laboratory Sample Delivery Group: AR17165
Client Project/Site: Libbey Connection Release

For:

Terracon Consulting Eng & Scientists
5827 50th St
Suite 1
Lubbock, Texas 79424

Attn: Joseph Guesnier

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

Authorized for release by:
10/21/2021 10:05:55 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: Libbey Connection Release

Laboratory Job ID: 820-2232-1
SDG: AR17165

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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 Zachary Smith (Water Microbiology).



Jessica Kramer
Project Manager
10/21/2021 10:05:55 AM

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Laboratory Job ID: 820-2232-1
SDG: AR17165

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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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
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.
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

Eurofins Xenco, Lubbock

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

Job ID: 820-2232-1

Laboratory: Eurofins Xenco, Lubbock

Narrative

Job Narrative 820-2232-1

Receipt

The samples were received on 10/13/2021 3:41 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 -14.0°C

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: HA2 (1.5-2) (820-2232-12). Evidence of matrix interferences is not obvious.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-9750 and analytical batch 880-9898 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 samples were outside control limits: (890-1428-A-3-C), (890-1428-A-3-D MS) and (890-1428-A-3-E MSD). 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

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: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

Client Sample ID: BG-1 (0-0.5)

Lab Sample ID: 820-2232-1

Date Collected: 10/12/21 11:47

Matrix: Solid

Date Received: 10/13/21 15:41

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		10/18/21 09:40	10/18/21 18:54	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/18/21 09:40	10/18/21 18:54	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/18/21 09:40	10/18/21 18:54	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/18/21 09:40	10/18/21 18:54	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/18/21 09:40	10/18/21 18:54	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/18/21 09:40	10/18/21 18:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	10/18/21 09:40	10/18/21 18:54	1
1,4-Difluorobenzene (Surr)	102		70 - 130	10/18/21 09:40	10/18/21 18:54	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			10/20/21 15:04	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			10/19/21 13:25	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		10/19/21 09:36	10/19/21 12:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/19/21 09:36	10/19/21 12:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/19/21 09:36	10/19/21 12:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130	10/19/21 09:36	10/19/21 12:01	1
o-Terphenyl	79		70 - 130	10/19/21 09:36	10/19/21 12:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.3		4.95		mg/Kg			10/18/21 23:28	1

Client Sample ID: BG-1 (1.5-2)

Lab Sample ID: 820-2232-3

Date Collected: 10/12/21 11:51

Matrix: Solid

Date Received: 10/13/21 15:41

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		10/18/21 09:40	10/18/21 19:14	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/18/21 09:40	10/18/21 19:14	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/18/21 09:40	10/18/21 19:14	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/18/21 09:40	10/18/21 19:14	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/18/21 09:40	10/18/21 19:14	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/18/21 09:40	10/18/21 19:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	10/18/21 09:40	10/18/21 19:14	1
1,4-Difluorobenzene (Surr)	108		70 - 130	10/18/21 09:40	10/18/21 19:14	1

Eurofins Xenco, Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

Client Sample ID: BG-1 (1.5-2)

Lab Sample ID: 820-2232-3

Date Collected: 10/12/21 11:51

Matrix: Solid

Date Received: 10/13/21 15:41

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			10/20/21 15:04	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			10/19/21 13:25	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		10/19/21 09:36	10/19/21 13:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/19/21 09:36	10/19/21 13:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/19/21 09:36	10/19/21 13:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				10/19/21 09:36	10/19/21 13:06	1
o-Terphenyl	83		70 - 130				10/19/21 09:36	10/19/21 13:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.6		4.95		mg/Kg			10/19/21 02:27	1

Client Sample ID: BG-2 (0-0.5)

Lab Sample ID: 820-2232-4

Date Collected: 10/12/21 11:53

Matrix: Solid

Date Received: 10/13/21 15:41

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		10/18/21 09:40	10/18/21 19:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/18/21 09:40	10/18/21 19:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/18/21 09:40	10/18/21 19:35	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/18/21 09:40	10/18/21 19:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/18/21 09:40	10/18/21 19:35	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/18/21 09:40	10/18/21 19:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				10/18/21 09:40	10/18/21 19:35	1
1,4-Difluorobenzene (Surr)	83		70 - 130				10/18/21 09:40	10/18/21 19:35	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			10/20/21 15:04	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			10/19/21 13:25	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		10/19/21 09:36	10/19/21 13:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/19/21 09:36	10/19/21 13:27	1

Eurofins Xenco, Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

Client Sample ID: BG-2 (0-0.5)

Lab Sample ID: 820-2232-4

Date Collected: 10/12/21 11:53

Matrix: Solid

Date Received: 10/13/21 15:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/19/21 09:36	10/19/21 13:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				10/19/21 09:36	10/19/21 13:27	1
o-Terphenyl	80		70 - 130				10/19/21 09:36	10/19/21 13:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.32		5.03		mg/Kg			10/19/21 02:44	1

Client Sample ID: BG-2 (1.5-2)

Lab Sample ID: 820-2232-6

Date Collected: 10/12/21 11:57

Matrix: Solid

Date Received: 10/13/21 15:41

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		10/18/21 09:40	10/18/21 19:55	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/18/21 09:40	10/18/21 19:55	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/18/21 09:40	10/18/21 19:55	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/18/21 09:40	10/18/21 19:55	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/18/21 09:40	10/18/21 19:55	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/18/21 09:40	10/18/21 19:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				10/18/21 09:40	10/18/21 19:55	1
1,4-Difluorobenzene (Surr)	103		70 - 130				10/18/21 09:40	10/18/21 19:55	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			10/20/21 15:04	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			10/19/21 13:25	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		10/19/21 09:36	10/19/21 13:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/19/21 09:36	10/19/21 13:49	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/19/21 09:36	10/19/21 13:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				10/19/21 09:36	10/19/21 13:49	1
o-Terphenyl	84		70 - 130				10/19/21 09:36	10/19/21 13:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.07		5.03		mg/Kg			10/19/21 02:49	1

Eurofins Xenco, Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

Client Sample ID: HA1 (0-0.5)

Lab Sample ID: 820-2232-7

Date Collected: 10/12/21 11:59

Matrix: Solid

Date Received: 10/13/21 15:41

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		10/18/21 09:40	10/18/21 20:16	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/18/21 09:40	10/18/21 20:16	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/18/21 09:40	10/18/21 20:16	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		10/18/21 09:40	10/18/21 20:16	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/18/21 09:40	10/18/21 20:16	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		10/18/21 09:40	10/18/21 20:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	10/18/21 09:40	10/18/21 20:16	1
1,4-Difluorobenzene (Surr)	89		70 - 130	10/18/21 09:40	10/18/21 20:16	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			10/20/21 15:04	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			10/19/21 13:25	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		10/19/21 09:36	10/19/21 14:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/19/21 09:36	10/19/21 14:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/19/21 09:36	10/19/21 14:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130	10/19/21 09:36	10/19/21 14:10	1
o-Terphenyl	85		70 - 130	10/19/21 09:36	10/19/21 14:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5250		24.8		mg/Kg			10/19/21 08:59	5

Client Sample ID: HA1 (1.5-2)

Lab Sample ID: 820-2232-9

Date Collected: 10/12/21 12:03

Matrix: Solid

Date Received: 10/13/21 15:41

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		10/18/21 09:40	10/18/21 20:36	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/18/21 09:40	10/18/21 20:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/18/21 09:40	10/18/21 20:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/18/21 09:40	10/18/21 20:36	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/18/21 09:40	10/18/21 20:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/18/21 09:40	10/18/21 20:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130	10/18/21 09:40	10/18/21 20:36	1
1,4-Difluorobenzene (Surr)	99		70 - 130	10/18/21 09:40	10/18/21 20:36	1

Eurofins Xenco, Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

Client Sample ID: HA1 (1.5-2)

Lab Sample ID: 820-2232-9

Date Collected: 10/12/21 12:03

Matrix: Solid

Date Received: 10/13/21 15:41

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			10/20/21 15:04	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			10/19/21 13:25	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		10/19/21 09:36	10/19/21 14:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/19/21 09:36	10/19/21 14:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/19/21 09:36	10/19/21 14:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				10/19/21 09:36	10/19/21 14:32	1
o-Terphenyl	84		70 - 130				10/19/21 09:36	10/19/21 14:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4970		25.2		mg/Kg			10/19/21 09:16	5

Client Sample ID: HA2 (0-0.5)

Lab Sample ID: 820-2232-10

Date Collected: 10/12/21 12:05

Matrix: Solid

Date Received: 10/13/21 15:41

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		10/18/21 09:40	10/18/21 20:56	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/18/21 09:40	10/18/21 20:56	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/18/21 09:40	10/18/21 20:56	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		10/18/21 09:40	10/18/21 20:56	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/18/21 09:40	10/18/21 20:56	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		10/18/21 09:40	10/18/21 20:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				10/18/21 09:40	10/18/21 20:56	1
1,4-Difluorobenzene (Surr)	106		70 - 130				10/18/21 09:40	10/18/21 20:56	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			10/20/21 15:04	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			10/19/21 13:25	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		10/19/21 09:36	10/19/21 14:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/19/21 09:36	10/19/21 14:53	1

Eurofins Xenco, Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

Client Sample ID: HA2 (0-0.5)

Lab Sample ID: 820-2232-10

Date Collected: 10/12/21 12:05

Matrix: Solid

Date Received: 10/13/21 15:41

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		10/19/21 09:36	10/19/21 14:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				10/19/21 09:36	10/19/21 14:53	1
o-Terphenyl	85		70 - 130				10/19/21 09:36	10/19/21 14:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1250		5.03		mg/Kg			10/19/21 09:22	1

Client Sample ID: HA2 (1.5-2)

Lab Sample ID: 820-2232-12

Date Collected: 10/12/21 12:09

Matrix: Solid

Date Received: 10/13/21 15:41

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		10/18/21 09:40	10/18/21 21:17	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/18/21 09:40	10/18/21 21:17	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/18/21 09:40	10/18/21 21:17	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		10/18/21 09:40	10/18/21 21:17	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/18/21 09:40	10/18/21 21:17	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		10/18/21 09:40	10/18/21 21:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	191	S1+	70 - 130				10/18/21 09:40	10/18/21 21:17	1
1,4-Difluorobenzene (Surr)	91		70 - 130				10/18/21 09:40	10/18/21 21:17	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			10/20/21 15:04	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			10/19/21 13:25	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		10/19/21 09:36	10/19/21 15:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/19/21 09:36	10/19/21 15:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/19/21 09:36	10/19/21 15:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				10/19/21 09:36	10/19/21 15:14	1
o-Terphenyl	83		70 - 130				10/19/21 09:36	10/19/21 15:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.0		5.01		mg/Kg			10/19/21 09:28	1

Eurofins Xenco, Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

Client Sample ID: HA3 (0-0.5)

Lab Sample ID: 820-2232-13

Date Collected: 10/12/21 12:11

Matrix: Solid

Date Received: 10/13/21 15:41

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		10/18/21 09:40	10/18/21 21:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/18/21 09:40	10/18/21 21:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/18/21 09:40	10/18/21 21:37	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/18/21 09:40	10/18/21 21:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/18/21 09:40	10/18/21 21:37	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/18/21 09:40	10/18/21 21:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	10/18/21 09:40	10/18/21 21:37	1
1,4-Difluorobenzene (Surr)	122		70 - 130	10/18/21 09:40	10/18/21 21:37	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			10/20/21 15:04	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			10/19/21 13:25	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		10/19/21 09:36	10/19/21 15:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/19/21 09:36	10/19/21 15:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/19/21 09:36	10/19/21 15:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130	10/19/21 09:36	10/19/21 15:36	1
o-Terphenyl	82		70 - 130	10/19/21 09:36	10/19/21 15:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3930		24.8		mg/Kg			10/19/21 09:33	5

Client Sample ID: HA3 (1.5-2)

Lab Sample ID: 820-2232-15

Date Collected: 10/12/21 12:15

Matrix: Solid

Date Received: 10/13/21 15:41

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		10/18/21 14:10	10/19/21 17:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/18/21 14:10	10/19/21 17:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/18/21 14:10	10/19/21 17:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/18/21 14:10	10/19/21 17:33	1
o-Xylene	<0.00199	U F1	0.00199		mg/Kg		10/18/21 14:10	10/19/21 17:33	1
Xylenes, Total	<0.00398	U F1	0.00398		mg/Kg		10/18/21 14:10	10/19/21 17:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	10/18/21 14:10	10/19/21 17:33	1
1,4-Difluorobenzene (Surr)	129		70 - 130	10/18/21 14:10	10/19/21 17:33	1

Eurofins Xenco, Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

Client Sample ID: HA3 (1.5-2)

Lab Sample ID: 820-2232-15

Date Collected: 10/12/21 12:15

Matrix: Solid

Date Received: 10/13/21 15:41

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			10/20/21 15:04	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			10/19/21 13:25	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		10/19/21 09:36	10/19/21 15:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/19/21 09:36	10/19/21 15:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/19/21 09:36	10/19/21 15:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				10/19/21 09:36	10/19/21 15:58	1
o-Terphenyl	89		70 - 130				10/19/21 09:36	10/19/21 15:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	187		5.04		mg/Kg			10/19/21 09:50	1

Client Sample ID: HA3 (4.5-5)

Lab Sample ID: 820-2232-17

Date Collected: 10/12/21 12:19

Matrix: Solid

Date Received: 10/13/21 15:41

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		10/18/21 14:10	10/19/21 17:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/18/21 14:10	10/19/21 17:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/18/21 14:10	10/19/21 17:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/18/21 14:10	10/19/21 17:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/18/21 14:10	10/19/21 17:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/18/21 14:10	10/19/21 17:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				10/18/21 14:10	10/19/21 17:53	1
1,4-Difluorobenzene (Surr)	101		70 - 130				10/18/21 14:10	10/19/21 17:53	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			10/20/21 15:04	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			10/19/21 13:25	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		10/19/21 09:36	10/19/21 16:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/19/21 09:36	10/19/21 16:40	1

Eurofins Xenco, Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

Client Sample ID: HA3 (4.5-5)

Lab Sample ID: 820-2232-17

Date Collected: 10/12/21 12:19

Matrix: Solid

Date Received: 10/13/21 15:41

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		10/19/21 09:36	10/19/21 16:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				10/19/21 09:36	10/19/21 16:40	1
o-Terphenyl	88		70 - 130				10/19/21 09:36	10/19/21 16:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	169		4.99		mg/Kg			10/19/21 09:56	1

Client Sample ID: HA12 (0-0.5)

Lab Sample ID: 820-2232-18

Date Collected: 10/12/21 12:21

Matrix: Solid

Date Received: 10/13/21 15:41

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		10/18/21 14:10	10/19/21 18:14	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/18/21 14:10	10/19/21 18:14	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/18/21 14:10	10/19/21 18:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/18/21 14:10	10/19/21 18:14	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/18/21 14:10	10/19/21 18:14	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/18/21 14:10	10/19/21 18:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				10/18/21 14:10	10/19/21 18:14	1
1,4-Difluorobenzene (Surr)	104		70 - 130				10/18/21 14:10	10/19/21 18:14	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			10/20/21 15:04	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			10/19/21 13:25	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		10/19/21 09:36	10/19/21 17:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/19/21 09:36	10/19/21 17:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/19/21 09:36	10/19/21 17:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				10/19/21 09:36	10/19/21 17:01	1
o-Terphenyl	85		70 - 130				10/19/21 09:36	10/19/21 17:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	522		4.97		mg/Kg			10/19/21 10:01	1

Eurofins Xenco, Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

Client Sample ID: HA12 (1.5-2)

Lab Sample ID: 820-2232-20

Date Collected: 10/12/21 12:25

Matrix: Solid

Date Received: 10/13/21 15:41

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		10/18/21 14:10	10/19/21 18:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/18/21 14:10	10/19/21 18:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/18/21 14:10	10/19/21 18:35	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/18/21 14:10	10/19/21 18:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/18/21 14:10	10/19/21 18:35	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/18/21 14:10	10/19/21 18:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	10/18/21 14:10	10/19/21 18:35	1
1,4-Difluorobenzene (Surr)	105		70 - 130	10/18/21 14:10	10/19/21 18:35	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			10/20/21 15:04	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			10/19/21 13:25	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		10/19/21 09:36	10/19/21 17:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/19/21 09:36	10/19/21 17:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/19/21 09:36	10/19/21 17:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130	10/19/21 09:36	10/19/21 17:22	1
o-Terphenyl	88		70 - 130	10/19/21 09:36	10/19/21 17:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64.4		5.05		mg/Kg			10/19/21 10:07	1

Client Sample ID: HA12 (4.5-5)

Lab Sample ID: 820-2232-22

Date Collected: 10/12/21 12:29

Matrix: Solid

Date Received: 10/13/21 15:41

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		10/18/21 14:10	10/19/21 18:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/18/21 14:10	10/19/21 18:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/18/21 14:10	10/19/21 18:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/18/21 14:10	10/19/21 18:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/18/21 14:10	10/19/21 18:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/18/21 14:10	10/19/21 18:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	10/18/21 14:10	10/19/21 18:55	1
1,4-Difluorobenzene (Surr)	109		70 - 130	10/18/21 14:10	10/19/21 18:55	1

Eurofins Xenco, Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

Client Sample ID: HA12 (4.5-5)

Lab Sample ID: 820-2232-22

Date Collected: 10/12/21 12:29

Matrix: Solid

Date Received: 10/13/21 15:41

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			10/20/21 15:04	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			10/19/21 13:25	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		10/19/21 09:36	10/19/21 17:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/19/21 09:36	10/19/21 17:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/19/21 09:36	10/19/21 17:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				10/19/21 09:36	10/19/21 17:44	1
o-Terphenyl	82		70 - 130				10/19/21 09:36	10/19/21 17:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.5		5.00		mg/Kg			10/19/21 10:13	1

Client Sample ID: HA8 (0-0.5)

Lab Sample ID: 820-2232-23

Date Collected: 10/12/21 12:31

Matrix: Solid

Date Received: 10/13/21 15:41

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		10/18/21 14:10	10/19/21 19:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/18/21 14:10	10/19/21 19:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/18/21 14:10	10/19/21 19:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/18/21 14:10	10/19/21 19:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/18/21 14:10	10/19/21 19:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/18/21 14:10	10/19/21 19:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130				10/18/21 14:10	10/19/21 19:16	1
1,4-Difluorobenzene (Surr)	85		70 - 130				10/18/21 14:10	10/19/21 19:16	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			10/20/21 15:04	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			10/19/21 13:25	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		10/19/21 09:36	10/19/21 18:05	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		10/19/21 09:36	10/19/21 18:05	1

Eurofins Xenco, Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

Client Sample ID: HA8 (0-0.5)

Lab Sample ID: 820-2232-23

Date Collected: 10/12/21 12:31

Matrix: Solid

Date Received: 10/13/21 15:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		10/19/21 09:36	10/19/21 18:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				10/19/21 09:36	10/19/21 18:05	1
o-Terphenyl	83		70 - 130				10/19/21 09:36	10/19/21 18:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2140		25.1		mg/Kg			10/19/21 10:18	5

Client Sample ID: HA8 (1.5-2)

Lab Sample ID: 820-2232-25

Date Collected: 10/12/21 12:35

Matrix: Solid

Date Received: 10/13/21 15:41

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		10/18/21 14:10	10/19/21 19:36	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/18/21 14:10	10/19/21 19:36	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/18/21 14:10	10/19/21 19:36	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		10/18/21 14:10	10/19/21 19:36	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/18/21 14:10	10/19/21 19:36	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		10/18/21 14:10	10/19/21 19:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130				10/18/21 14:10	10/19/21 19:36	1
1,4-Difluorobenzene (Surr)	90		70 - 130				10/18/21 14:10	10/19/21 19:36	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			10/20/21 15:04	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			10/19/21 13:25	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		10/19/21 09:36	10/19/21 18:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/19/21 09:36	10/19/21 18:27	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/19/21 09:36	10/19/21 18:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				10/19/21 09:36	10/19/21 18:27	1
o-Terphenyl	82		70 - 130				10/19/21 09:36	10/19/21 18:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.7		4.97		mg/Kg			10/19/21 10:35	1

Eurofins Xenco, Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

Client Sample ID: HA9 (0-0.5)

Lab Sample ID: 820-2232-26

Date Collected: 10/12/21 12:37

Matrix: Solid

Date Received: 10/13/21 15:41

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		10/18/21 14:10	10/19/21 19:57	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/18/21 14:10	10/19/21 19:57	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/18/21 14:10	10/19/21 19:57	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		10/18/21 14:10	10/19/21 19:57	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/18/21 14:10	10/19/21 19:57	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		10/18/21 14:10	10/19/21 19:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	10/18/21 14:10	10/19/21 19:57	1
1,4-Difluorobenzene (Surr)	78		70 - 130	10/18/21 14:10	10/19/21 19:57	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			10/20/21 15:04	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			10/19/21 13:25	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		10/19/21 09:36	10/19/21 18:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/19/21 09:36	10/19/21 18:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/19/21 09:36	10/19/21 18:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	10/19/21 09:36	10/19/21 18:48	1
o-Terphenyl	84		70 - 130	10/19/21 09:36	10/19/21 18:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	182		4.99		mg/Kg			10/19/21 10:41	1

Client Sample ID: HA9 (1.5-2)

Lab Sample ID: 820-2232-28

Date Collected: 10/12/21 12:41

Matrix: Solid

Date Received: 10/13/21 15:41

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		10/18/21 14:10	10/19/21 20:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/18/21 14:10	10/19/21 20:18	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/18/21 14:10	10/19/21 20:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/18/21 14:10	10/19/21 20:18	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/18/21 14:10	10/19/21 20:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/18/21 14:10	10/19/21 20:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	10/18/21 14:10	10/19/21 20:18	1
1,4-Difluorobenzene (Surr)	88		70 - 130	10/18/21 14:10	10/19/21 20:18	1

Eurofins Xenco, Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

Client Sample ID: HA9 (1.5-2)

Lab Sample ID: 820-2232-28

Date Collected: 10/12/21 12:41

Matrix: Solid

Date Received: 10/13/21 15:41

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			10/20/21 15:04	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			10/19/21 13:25	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		10/19/21 09:36	10/19/21 19:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/19/21 09:36	10/19/21 19:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/19/21 09:36	10/19/21 19:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				10/19/21 09:36	10/19/21 19:09	1
o-Terphenyl	86		70 - 130				10/19/21 09:36	10/19/21 19:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.1		4.96		mg/Kg			10/19/21 10:57	1

Client Sample ID: HA6 (0-0.5)

Lab Sample ID: 820-2232-29

Date Collected: 10/12/21 12:43

Matrix: Solid

Date Received: 10/13/21 15:41

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		10/18/21 14:10	10/19/21 20:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/18/21 14:10	10/19/21 20:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/18/21 14:10	10/19/21 20:38	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/18/21 14:10	10/19/21 20:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/18/21 14:10	10/19/21 20:38	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/18/21 14:10	10/19/21 20:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				10/18/21 14:10	10/19/21 20:38	1
1,4-Difluorobenzene (Surr)	85		70 - 130				10/18/21 14:10	10/19/21 20:38	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			10/20/21 15:04	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			10/19/21 13:25	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		10/19/21 09:36	10/19/21 19:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/19/21 09:36	10/19/21 19:31	1

Eurofins Xenco, Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

Client Sample ID: HA6 (0-0.5)

Lab Sample ID: 820-2232-29

Date Collected: 10/12/21 12:43

Matrix: Solid

Date Received: 10/13/21 15:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/19/21 09:36	10/19/21 19:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				10/19/21 09:36	10/19/21 19:31	1
o-Terphenyl	83		70 - 130				10/19/21 09:36	10/19/21 19:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	931		5.04		mg/Kg			10/19/21 11:03	1

Client Sample ID: HA6 (1.5-2)

Lab Sample ID: 820-2232-31

Date Collected: 10/12/21 12:47

Matrix: Solid

Date Received: 10/13/21 15:41

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		10/18/21 14:10	10/19/21 22:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/18/21 14:10	10/19/21 22:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/18/21 14:10	10/19/21 22:00	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/18/21 14:10	10/19/21 22:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/18/21 14:10	10/19/21 22:00	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/18/21 14:10	10/19/21 22:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				10/18/21 14:10	10/19/21 22:00	1
1,4-Difluorobenzene (Surr)	102		70 - 130				10/18/21 14:10	10/19/21 22:00	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			10/20/21 15:04	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			10/19/21 13:25	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		10/19/21 09:36	10/19/21 19:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/19/21 09:36	10/19/21 19:52	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/19/21 09:36	10/19/21 19:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130				10/19/21 09:36	10/19/21 19:52	1
o-Terphenyl	81		70 - 130				10/19/21 09:36	10/19/21 19:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.6		4.97		mg/Kg			10/19/21 11:09	1

Eurofins Xenco, Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

Client Sample ID: HA6 (3.5-4)

Lab Sample ID: 820-2232-32

Date Collected: 10/12/21 12:49

Matrix: Solid

Date Received: 10/13/21 15:41

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		10/18/21 14:10	10/19/21 22:21	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/18/21 14:10	10/19/21 22:21	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/18/21 14:10	10/19/21 22:21	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/18/21 14:10	10/19/21 22:21	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/18/21 14:10	10/19/21 22:21	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/18/21 14:10	10/19/21 22:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	10/18/21 14:10	10/19/21 22:21	1
1,4-Difluorobenzene (Surr)	104		70 - 130	10/18/21 14:10	10/19/21 22:21	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			10/20/21 15:04	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			10/19/21 13:25	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		10/19/21 09:45	10/19/21 14:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/19/21 09:45	10/19/21 14:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/19/21 09:45	10/19/21 14:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	10/19/21 09:45	10/19/21 14:10	1
o-Terphenyl	116		70 - 130	10/19/21 09:45	10/19/21 14:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38.3		5.04		mg/Kg			10/19/21 11:14	1

Client Sample ID: HA4 (0.5-1)

Lab Sample ID: 820-2232-34

Date Collected: 10/12/21 12:53

Matrix: Solid

Date Received: 10/13/21 15:41

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		10/18/21 14:10	10/19/21 22:42	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/18/21 14:10	10/19/21 22:42	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/18/21 14:10	10/19/21 22:42	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		10/18/21 14:10	10/19/21 22:42	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/18/21 14:10	10/19/21 22:42	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		10/18/21 14:10	10/19/21 22:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130	10/18/21 14:10	10/19/21 22:42	1
1,4-Difluorobenzene (Surr)	86		70 - 130	10/18/21 14:10	10/19/21 22:42	1

Eurofins Xenco, Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

Client Sample ID: HA4 (0.5-1)

Lab Sample ID: 820-2232-34

Date Collected: 10/12/21 12:53

Matrix: Solid

Date Received: 10/13/21 15:41

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			10/20/21 15:04	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			10/19/21 13:25	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		10/19/21 09:45	10/19/21 14:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/19/21 09:45	10/19/21 14:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/19/21 09:45	10/19/21 14:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				10/19/21 09:45	10/19/21 14:32	1
o-Terphenyl	116		70 - 130				10/19/21 09:45	10/19/21 14:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	293		5.03		mg/Kg			10/19/21 11:20	1

Client Sample ID: HA4 (1.5-2)

Lab Sample ID: 820-2232-35

Date Collected: 10/12/21 12:55

Matrix: Solid

Date Received: 10/13/21 15:41

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		10/18/21 14:10	10/19/21 23:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/18/21 14:10	10/19/21 23:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/18/21 14:10	10/19/21 23:02	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		10/18/21 14:10	10/19/21 23:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/18/21 14:10	10/19/21 23:02	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		10/18/21 14:10	10/19/21 23:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				10/18/21 14:10	10/19/21 23:02	1
1,4-Difluorobenzene (Surr)	114		70 - 130				10/18/21 14:10	10/19/21 23:02	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			10/20/21 15:04	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			10/19/21 13:25	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		10/19/21 09:45	10/19/21 14:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/19/21 09:45	10/19/21 14:53	1

Eurofins Xenco, Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

Client Sample ID: HA4 (1.5-2)

Lab Sample ID: 820-2232-35

Date Collected: 10/12/21 12:55

Matrix: Solid

Date Received: 10/13/21 15:41

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		10/19/21 09:45	10/19/21 14:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				10/19/21 09:45	10/19/21 14:53	1
o-Terphenyl	102		70 - 130				10/19/21 09:45	10/19/21 14:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	59.1		4.97		mg/Kg			10/19/21 11:26	1

Client Sample ID: HA5 (0-0.5)

Lab Sample ID: 820-2232-37

Date Collected: 10/12/21 12:59

Matrix: Solid

Date Received: 10/13/21 15:41

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		10/18/21 14:10	10/19/21 23:23	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/18/21 14:10	10/19/21 23:23	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/18/21 14:10	10/19/21 23:23	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		10/18/21 14:10	10/19/21 23:23	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/18/21 14:10	10/19/21 23:23	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		10/18/21 14:10	10/19/21 23:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				10/18/21 14:10	10/19/21 23:23	1
1,4-Difluorobenzene (Surr)	95		70 - 130				10/18/21 14:10	10/19/21 23:23	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			10/20/21 15:04	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			10/19/21 13:25	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		10/19/21 09:45	10/19/21 15:14	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/19/21 09:45	10/19/21 15:14	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/19/21 09:45	10/19/21 15:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				10/19/21 09:45	10/19/21 15:14	1
o-Terphenyl	104		70 - 130				10/19/21 09:45	10/19/21 15:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1840	F1	24.8		mg/Kg			10/19/21 12:28	5

Eurofins Xenco, Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

Client Sample ID: HA5 (1.5-2)

Lab Sample ID: 820-2232-39

Date Collected: 10/12/21 13:03

Matrix: Solid

Date Received: 10/13/21 15:41

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		10/18/21 14:10	10/19/21 23:43	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/18/21 14:10	10/19/21 23:43	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/18/21 14:10	10/19/21 23:43	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/18/21 14:10	10/19/21 23:43	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/18/21 14:10	10/19/21 23:43	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/18/21 14:10	10/19/21 23:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	10/18/21 14:10	10/19/21 23:43	1
1,4-Difluorobenzene (Surr)	87		70 - 130	10/18/21 14:10	10/19/21 23:43	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			10/20/21 15:04	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			10/19/21 13:25	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		10/19/21 09:45	10/19/21 15:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/19/21 09:45	10/19/21 15:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/19/21 09:45	10/19/21 15:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	10/19/21 09:45	10/19/21 15:36	1
o-Terphenyl	100		70 - 130	10/19/21 09:45	10/19/21 15:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	185		5.03		mg/Kg			10/19/21 12:47	1

Client Sample ID: HA5 (3-3.5)

Lab Sample ID: 820-2232-40

Date Collected: 10/12/21 13:05

Matrix: Solid

Date Received: 10/13/21 15:41

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		10/18/21 14:10	10/20/21 00:04	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/18/21 14:10	10/20/21 00:04	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/18/21 14:10	10/20/21 00:04	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/18/21 14:10	10/20/21 00:04	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/18/21 14:10	10/20/21 00:04	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/18/21 14:10	10/20/21 00:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		70 - 130	10/18/21 14:10	10/20/21 00:04	1
1,4-Difluorobenzene (Surr)	76		70 - 130	10/18/21 14:10	10/20/21 00:04	1

Eurofins Xenco, Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

Client Sample ID: HA5 (3-3.5)

Lab Sample ID: 820-2232-40

Date Collected: 10/12/21 13:05

Matrix: Solid

Date Received: 10/13/21 15:41

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			10/20/21 15:04	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			10/19/21 13:25	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		10/19/21 09:45	10/19/21 15:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/19/21 09:45	10/19/21 15:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/19/21 09:45	10/19/21 15:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				10/19/21 09:45	10/19/21 15:58	1
o-Terphenyl	120		70 - 130				10/19/21 09:45	10/19/21 15:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	108		5.03		mg/Kg			10/19/21 12:53	1

Client Sample ID: HA7 (0.5-1)

Lab Sample ID: 820-2232-42

Date Collected: 10/12/21 13:09

Matrix: Solid

Date Received: 10/13/21 15:41

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		10/18/21 14:10	10/20/21 00:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/18/21 14:10	10/20/21 00:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/18/21 14:10	10/20/21 00:25	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/18/21 14:10	10/20/21 00:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/18/21 14:10	10/20/21 00:25	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/18/21 14:10	10/20/21 00:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				10/18/21 14:10	10/20/21 00:25	1
1,4-Difluorobenzene (Surr)	125		70 - 130				10/18/21 14:10	10/20/21 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			10/20/21 15:04	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			10/19/21 13:25	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		10/19/21 09:45	10/19/21 16:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/19/21 09:45	10/19/21 16:40	1

Eurofins Xenco, Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

Client Sample ID: HA7 (0.5-1)

Lab Sample ID: 820-2232-42

Date Collected: 10/12/21 13:09

Matrix: Solid

Date Received: 10/13/21 15:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/19/21 09:45	10/19/21 16:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130				10/19/21 09:45	10/19/21 16:40	1
o-Terphenyl	130		70 - 130				10/19/21 09:45	10/19/21 16:40	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5500		50.1		mg/Kg			10/19/21 13:00	10

Client Sample ID: HA7 (3-3.5)

Lab Sample ID: 820-2232-44

Date Collected: 10/12/21 13:13

Matrix: Solid

Date Received: 10/13/21 15:41

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		10/18/21 14:10	10/20/21 00:45	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/18/21 14:10	10/20/21 00:45	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/18/21 14:10	10/20/21 00:45	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/18/21 14:10	10/20/21 00:45	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/18/21 14:10	10/20/21 00:45	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/18/21 14:10	10/20/21 00:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				10/18/21 14:10	10/20/21 00:45	1
1,4-Difluorobenzene (Surr)	109		70 - 130				10/18/21 14:10	10/20/21 00:45	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			10/20/21 15:04	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			10/19/21 13:25	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		10/19/21 09:45	10/19/21 17:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/19/21 09:45	10/19/21 17:01	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/19/21 09:45	10/19/21 17:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				10/19/21 09:45	10/19/21 17:01	1
o-Terphenyl	111		70 - 130				10/19/21 09:45	10/19/21 17:01	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2140		24.8		mg/Kg			10/19/21 13:06	5

Eurofins Xenco, Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

Client Sample ID: HA10 (0-0.5)

Lab Sample ID: 820-2232-45

Date Collected: 10/12/21 13:15

Matrix: Solid

Date Received: 10/13/21 15:41

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		10/18/21 14:13	10/20/21 16:43	1
Toluene	<0.00202	U F1	0.00202		mg/Kg		10/18/21 14:13	10/20/21 16:43	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/18/21 14:13	10/20/21 16:43	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		10/18/21 14:13	10/20/21 16:43	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/18/21 14:13	10/20/21 16:43	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		10/18/21 14:13	10/20/21 16:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130	10/18/21 14:13	10/20/21 16:43	1
1,4-Difluorobenzene (Surr)	104		70 - 130	10/18/21 14:13	10/20/21 16:43	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			10/20/21 15:04	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			10/19/21 13:25	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		10/19/21 09:45	10/19/21 17:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/19/21 09:45	10/19/21 17:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/19/21 09:45	10/19/21 17:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	10/19/21 09:45	10/19/21 17:22	1
o-Terphenyl	107		70 - 130	10/19/21 09:45	10/19/21 17:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1420		5.04		mg/Kg			10/19/21 13:25	1

Client Sample ID: HA10 (1.5-2)

Lab Sample ID: 820-2232-47

Date Collected: 10/12/21 13:19

Matrix: Solid

Date Received: 10/13/21 15:41

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		10/18/21 14:13	10/20/21 17:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/18/21 14:13	10/20/21 17:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/18/21 14:13	10/20/21 17:04	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		10/18/21 14:13	10/20/21 17:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/18/21 14:13	10/20/21 17:04	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		10/18/21 14:13	10/20/21 17:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	10/18/21 14:13	10/20/21 17:04	1
1,4-Difluorobenzene (Surr)	103		70 - 130	10/18/21 14:13	10/20/21 17:04	1

Eurofins Xenco, Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

Client Sample ID: HA10 (1.5-2)

Lab Sample ID: 820-2232-47

Date Collected: 10/12/21 13:19

Matrix: Solid

Date Received: 10/13/21 15:41

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			10/20/21 15:04	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			10/20/21 13:43	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		10/19/21 09:45	10/19/21 17:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/19/21 09:45	10/19/21 17:44	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/19/21 09:45	10/19/21 17:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				10/19/21 09:45	10/19/21 17:44	1
o-Terphenyl	107		70 - 130				10/19/21 09:45	10/19/21 17:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3940		25.0		mg/Kg			10/19/21 13:31	5

Client Sample ID: HA10 (3-3.5)

Lab Sample ID: 820-2232-48

Date Collected: 10/12/21 13:21

Matrix: Solid

Date Received: 10/13/21 15:41

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		10/18/21 14:13	10/20/21 17:24	1
Toluene	<0.00201	U	0.00201		mg/Kg		10/18/21 14:13	10/20/21 17:24	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		10/18/21 14:13	10/20/21 17:24	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		10/18/21 14:13	10/20/21 17:24	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		10/18/21 14:13	10/20/21 17:24	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		10/18/21 14:13	10/20/21 17:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130				10/18/21 14:13	10/20/21 17:24	1
1,4-Difluorobenzene (Surr)	99		70 - 130				10/18/21 14:13	10/20/21 17:24	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			10/20/21 15:04	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			10/20/21 13:43	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		10/19/21 09:45	10/19/21 18:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/19/21 09:45	10/19/21 18:05	1

Eurofins Xenco, Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

Client Sample ID: HA10 (3-3.5)

Lab Sample ID: 820-2232-48

Date Collected: 10/12/21 13:21

Matrix: Solid

Date Received: 10/13/21 15:41

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/19/21 09:45	10/19/21 18:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				10/19/21 09:45	10/19/21 18:05	1
o-Terphenyl	128		70 - 130				10/19/21 09:45	10/19/21 18:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1300		4.97		mg/Kg			10/19/21 13:37	1

Client Sample ID: HA11 (0.5-1)

Lab Sample ID: 820-2232-50

Date Collected: 10/12/21 13:25

Matrix: Solid

Date Received: 10/13/21 15:41

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		10/18/21 14:13	10/20/21 17:45	1
Toluene	<0.00198	U	0.00198		mg/Kg		10/18/21 14:13	10/20/21 17:45	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		10/18/21 14:13	10/20/21 17:45	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		10/18/21 14:13	10/20/21 17:45	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		10/18/21 14:13	10/20/21 17:45	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		10/18/21 14:13	10/20/21 17:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130				10/18/21 14:13	10/20/21 17:45	1
1,4-Difluorobenzene (Surr)	79		70 - 130				10/18/21 14:13	10/20/21 17:45	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			10/20/21 15:04	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			10/20/21 13:43	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		10/19/21 09:45	10/19/21 18:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/19/21 09:45	10/19/21 18:27	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/19/21 09:45	10/19/21 18:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				10/19/21 09:45	10/19/21 18:27	1
o-Terphenyl	105		70 - 130				10/19/21 09:45	10/19/21 18:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.6		5.05		mg/Kg			10/19/21 13:44	1

Eurofins Xenco, Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

Client Sample ID: HA11 (1.5-2)

Lab Sample ID: 820-2232-51

Date Collected: 10/12/21 13:27

Matrix: Solid

Date Received: 10/13/21 15:41

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		10/18/21 14:13	10/20/21 18:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/18/21 14:13	10/20/21 18:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/18/21 14:13	10/20/21 18:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/18/21 14:13	10/20/21 18:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/18/21 14:13	10/20/21 18:05	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/18/21 14:13	10/20/21 18:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	10/18/21 14:13	10/20/21 18:05	1
1,4-Difluorobenzene (Surr)	103		70 - 130	10/18/21 14:13	10/20/21 18:05	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			10/20/21 15:04	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			10/20/21 13:43	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		10/19/21 09:45	10/19/21 18:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		10/19/21 09:45	10/19/21 18:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		10/19/21 09:45	10/19/21 18:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	10/19/21 09:45	10/19/21 18:48	1
o-Terphenyl	106		70 - 130	10/19/21 09:45	10/19/21 18:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/19/21 13:50	1

Eurofins Xenco, Lubbock

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

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)
820-2232-1	BG-1 (0-0.5)	97	102
820-2232-3	BG-1 (1.5-2)	104	108
820-2232-4	BG-2 (0-0.5)	119	83
820-2232-6	BG-2 (1.5-2)	95	103
820-2232-7	HA1 (0-0.5)	86	89
820-2232-9	HA1 (1.5-2)	77	99
820-2232-10	HA2 (0-0.5)	102	106
820-2232-12	HA2 (1.5-2)	191 S1+	91
820-2232-13	HA3 (0-0.5)	118	122
820-2232-15	HA3 (1.5-2)	102	129
820-2232-15 MS	HA3 (1.5-2)	87	85
820-2232-15 MSD	HA3 (1.5-2)	75	86
820-2232-17	HA3 (4.5-5)	100	101
820-2232-18	HA12 (0-0.5)	116	104
820-2232-20	HA12 (1.5-2)	94	105
820-2232-22	HA12 (4.5-5)	96	109
820-2232-23	HA8 (0-0.5)	89	85
820-2232-25	HA8 (1.5-2)	80	90
820-2232-26	HA9 (0-0.5)	85	78
820-2232-28	HA9 (1.5-2)	87	88
820-2232-29	HA6 (0-0.5)	93	85
820-2232-31	HA6 (1.5-2)	93	102
820-2232-32	HA6 (3.5-4)	86	104
820-2232-34	HA4 (0.5-1)	79	86
820-2232-35	HA4 (1.5-2)	104	114
820-2232-37	HA5 (0-0.5)	92	95
820-2232-39	HA5 (1.5-2)	100	87
820-2232-40	HA5 (3-3.5)	74	76
820-2232-42	HA7 (0.5-1)	112	125
820-2232-44	HA7 (3-3.5)	99	109
820-2232-45	HA10 (0-0.5)	147 S1+	104
820-2232-45 MS	HA10 (0-0.5)	123	106
820-2232-45 MSD	HA10 (0-0.5)	123	101
820-2232-47	HA10 (1.5-2)	115	103
820-2232-48	HA10 (3-3.5)	122	99
820-2232-50	HA11 (0.5-1)	117	79
820-2232-51	HA11 (1.5-2)	115	103
890-1441-A-1-A MS	Matrix Spike	92	104
890-1441-A-1-B MSD	Matrix Spike Duplicate	97	104
LCS 880-9635/1-A	Lab Control Sample	86	106
LCS 880-9750/1-A	Lab Control Sample	87	99
LCS 880-9753/1-A	Lab Control Sample	105	99
LCSD 880-9635/2-A	Lab Control Sample Dup	89	100
LCSD 880-9750/2-A	Lab Control Sample Dup	77	90
LCSD 880-9753/2-A	Lab Control Sample Dup	112	102
MB 880-9635/5-A	Method Blank	98	103
MB 880-9750/5-A	Method Blank	126	122
MB 880-9753/5-A	Method Blank	106	94

Surrogate Legend

Eurofins Xenco, Lubbock

Surrogate Summary

Client: Terracon Consulting Eng & Scientists

Job ID: 820-2232-1

Project/Site: Libbey Connection Release

SDG: AR17165

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)
820-2232-1	BG-1 (0-0.5)	76	79
820-2232-1 MS	BG-1 (0-0.5)	81	82
820-2232-1 MSD	BG-1 (0-0.5)	82	80
820-2232-3	BG-1 (1.5-2)	78	83
820-2232-4	BG-2 (0-0.5)	78	80
820-2232-6	BG-2 (1.5-2)	79	84
820-2232-7	HA1 (0-0.5)	78	85
820-2232-9	HA1 (1.5-2)	79	84
820-2232-10	HA2 (0-0.5)	80	85
820-2232-12	HA2 (1.5-2)	79	83
820-2232-13	HA3 (0-0.5)	78	82
820-2232-15	HA3 (1.5-2)	83	89
820-2232-17	HA3 (4.5-5)	80	88
820-2232-18	HA12 (0-0.5)	82	85
820-2232-20	HA12 (1.5-2)	82	88
820-2232-22	HA12 (4.5-5)	78	82
820-2232-23	HA8 (0-0.5)	78	83
820-2232-25	HA8 (1.5-2)	79	82
820-2232-26	HA9 (0-0.5)	80	84
820-2232-28	HA9 (1.5-2)	79	86
820-2232-29	HA6 (0-0.5)	79	83
820-2232-31	HA6 (1.5-2)	77	81
820-2232-32	HA6 (3.5-4)	103	116
820-2232-34	HA4 (0.5-1)	106	116
820-2232-35	HA4 (1.5-2)	93	102
820-2232-37	HA5 (0-0.5)	93	104
820-2232-39	HA5 (1.5-2)	90	100
820-2232-40	HA5 (3-3.5)	106	120
820-2232-42	HA7 (0.5-1)	114	130
820-2232-44	HA7 (3-3.5)	99	111
820-2232-45	HA10 (0-0.5)	97	107
820-2232-47	HA10 (1.5-2)	97	107
820-2232-48	HA10 (3-3.5)	113	128
820-2232-50	HA11 (0.5-1)	95	105
820-2232-51	HA11 (1.5-2)	96	106
890-1428-A-3-D MS	Matrix Spike	312 S1+	215 S1+
890-1428-A-3-E MSD	Matrix Spike Duplicate	268 S1+	203 S1+
LCS 880-9832/2-A	Lab Control Sample	81	86
LCS 880-9834/2-A	Lab Control Sample	94	96
LCSD 880-9832/3-A	Lab Control Sample Dup	78	82
LCSD 880-9834/3-A	Lab Control Sample Dup	86	89
MB 880-9832/1-A	Method Blank	83	93
MB 880-9834/1-A	Method Blank	101	116

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Xenco, Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-9635/5-A

Matrix: Solid

Analysis Batch: 9649

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9635

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/18/21 09:40	10/18/21 13:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/18/21 09:40	10/18/21 13:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/18/21 09:40	10/18/21 13:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/18/21 09:40	10/18/21 13:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/18/21 09:40	10/18/21 13:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/18/21 09:40	10/18/21 13:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	10/18/21 09:40	10/18/21 13:12	1
1,4-Difluorobenzene (Surr)	103		70 - 130	10/18/21 09:40	10/18/21 13:12	1

Lab Sample ID: LCS 880-9635/1-A

Matrix: Solid

Analysis Batch: 9649

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9635

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1189		mg/Kg		119	70 - 130
Toluene	0.100	0.1162		mg/Kg		116	70 - 130
Ethylbenzene	0.100	0.1228		mg/Kg		123	70 - 130
m-Xylene & p-Xylene	0.200	0.2360		mg/Kg		118	70 - 130
o-Xylene	0.100	0.1224		mg/Kg		122	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	86		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-9635/2-A

Matrix: Solid

Analysis Batch: 9649

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9635

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1163		mg/Kg		116	70 - 130	2	35
Toluene	0.100	0.1236		mg/Kg		124	70 - 130	6	35
Ethylbenzene	0.100	0.1273		mg/Kg		127	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2468		mg/Kg		123	70 - 130	4	35
o-Xylene	0.100	0.1278		mg/Kg		128	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-1441-A-1-A MS

Matrix: Solid

Analysis Batch: 9649

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 9635

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00201	U	0.101	0.1053		mg/Kg		104	70 - 130
Toluene	<0.00201	U	0.101	0.1095		mg/Kg		108	70 - 130

Eurofins Xenco, Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

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

Lab Sample ID: 890-1441-A-1-A MS

Matrix: Solid

Analysis Batch: 9649

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 9635

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00201	U	0.101	0.1121		mg/Kg		111	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.202	0.2196		mg/Kg		109	70 - 130
o-Xylene	<0.00201	U	0.101	0.1146		mg/Kg		113	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 890-1441-A-1-B MSD

Matrix: Solid

Analysis Batch: 9649

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 9635

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00201	U	0.100	0.1035		mg/Kg		103	70 - 130	2	35
Toluene	<0.00201	U	0.100	0.1053		mg/Kg		105	70 - 130	4	35
Ethylbenzene	<0.00201	U	0.100	0.1129		mg/Kg		113	70 - 130	1	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.2168		mg/Kg		108	70 - 130	1	35
o-Xylene	<0.00201	U	0.100	0.1109		mg/Kg		110	70 - 130	3	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: MB 880-9750/5-A

Matrix: Solid

Analysis Batch: 9898

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9750

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/18/21 14:10	10/19/21 17:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/18/21 14:10	10/19/21 17:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/18/21 14:10	10/19/21 17:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/18/21 14:10	10/19/21 17:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/18/21 14:10	10/19/21 17:11	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/18/21 14:10	10/19/21 17:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	10/18/21 14:10	10/19/21 17:11	1
1,4-Difluorobenzene (Surr)	122		70 - 130	10/18/21 14:10	10/19/21 17:11	1

Lab Sample ID: LCS 880-9750/1-A

Matrix: Solid

Analysis Batch: 9898

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9750

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08346		mg/Kg		83	70 - 130
Toluene	0.100	0.1046		mg/Kg		105	70 - 130
Ethylbenzene	0.100	0.08969		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	0.200	0.1614		mg/Kg		81	70 - 130

Eurofins Xenco, Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

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

Lab Sample ID: LCS 880-9750/1-A

Matrix: Solid

Analysis Batch: 9898

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9750

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	0.100	0.07474		mg/Kg		75	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-9750/2-A

Matrix: Solid

Analysis Batch: 9898

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9750

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.07185		mg/Kg		72	70 - 130	15	35
Toluene	0.100	0.08902		mg/Kg		89	70 - 130	16	35
Ethylbenzene	0.100	0.08181		mg/Kg		82	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.1430		mg/Kg		71	70 - 130	12	35
o-Xylene	0.100	0.07384		mg/Kg		74	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	77		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: 820-2232-15 MS

Matrix: Solid

Analysis Batch: 9898

Client Sample ID: HA3 (1.5-2)

Prep Type: Total/NA

Prep Batch: 9750

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U	0.0996	0.08491		mg/Kg		85	70 - 130
Toluene	<0.00199	U	0.0996	0.1001		mg/Kg		101	70 - 130
Ethylbenzene	<0.00199	U	0.0996	0.08910		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1588		mg/Kg		80	70 - 130
o-Xylene	<0.00199	U F1	0.0996	0.07586		mg/Kg		76	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

Lab Sample ID: 820-2232-15 MSD

Matrix: Solid

Analysis Batch: 9898

Client Sample ID: HA3 (1.5-2)

Prep Type: Total/NA

Prep Batch: 9750

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00199	U	0.100	0.07304		mg/Kg		73	70 - 130	15	35
Toluene	<0.00199	U	0.100	0.08897		mg/Kg		89	70 - 130	12	35
Ethylbenzene	<0.00199	U	0.100	0.08323		mg/Kg		83	70 - 130	7	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1396		mg/Kg		70	70 - 130	13	35
o-Xylene	<0.00199	U F1	0.100	0.06473	F1	mg/Kg		65	70 - 130	16	35

Eurofins Xenco, Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

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

Lab Sample ID: 820-2232-15 MSD

Matrix: Solid

Analysis Batch: 9898

Client Sample ID: HA3 (1.5-2)

Prep Type: Total/NA

Prep Batch: 9750

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	75		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: MB 880-9753/5-A

Matrix: Solid

Analysis Batch: 9941

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9753

Analyte	MB	MB							
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/18/21 14:13	10/20/21 16:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/18/21 14:13	10/20/21 16:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/18/21 14:13	10/20/21 16:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/18/21 14:13	10/20/21 16:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/18/21 14:13	10/20/21 16:22	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/18/21 14:13	10/20/21 16:22	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	106		70 - 130	10/18/21 14:13	10/20/21 16:22	1			
1,4-Difluorobenzene (Surr)	94		70 - 130	10/18/21 14:13	10/20/21 16:22	1			

Lab Sample ID: LCS 880-9753/1-A

Matrix: Solid

Analysis Batch: 9941

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9753

Analyte	Spike	LCS	LCS						
	Added	Result	Qualifier	Unit	D	%Rec	%Rec.	Limits	
Benzene	0.100	0.09216		mg/Kg		92		70 - 130	
Toluene	0.100	0.09030		mg/Kg		90		70 - 130	
Ethylbenzene	0.100	0.08762		mg/Kg		88		70 - 130	
m-Xylene & p-Xylene	0.200	0.1908		mg/Kg		95		70 - 130	
o-Xylene	0.100	0.09524		mg/Kg		95		70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-9753/2-A

Matrix: Solid

Analysis Batch: 9941

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9753

Analyte	Spike	LCSD	LCSD							
	Added	Result	Qualifier	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
Benzene	0.100	0.09667		mg/Kg		97		70 - 130	5	35
Toluene	0.100	0.09542		mg/Kg		95		70 - 130	6	35
Ethylbenzene	0.100	0.09422		mg/Kg		94		70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.2061		mg/Kg		103		70 - 130	8	35
o-Xylene	0.100	0.1022		mg/Kg		102		70 - 130	7	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130

Eurofins Xenco, Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

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

Lab Sample ID: LCSD 880-9753/2-A

Matrix: Solid

Analysis Batch: 9941

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9753

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 820-2232-45 MS

Matrix: Solid

Analysis Batch: 9941

Client Sample ID: HA10 (0-0.5)

Prep Type: Total/NA

Prep Batch: 9753

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00202	U	0.101	0.07281		mg/Kg		72	70 - 130
Toluene	<0.00202	U F1	0.101	0.06977	F1	mg/Kg		69	70 - 130
Ethylbenzene	<0.00202	U	0.101	0.07075		mg/Kg		70	70 - 130
m-Xylene & p-Xylene	<0.00403	U	0.202	0.1558		mg/Kg		77	70 - 130
o-Xylene	<0.00202	U	0.101	0.07831		mg/Kg		78	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 820-2232-45 MSD

Matrix: Solid

Analysis Batch: 9941

Client Sample ID: HA10 (0-0.5)

Prep Type: Total/NA

Prep Batch: 9753

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	0.07730		mg/Kg		77	70 - 130	6	35
Toluene	<0.00202	U F1	0.101	0.07622		mg/Kg		76	70 - 130	9	35
Ethylbenzene	<0.00202	U	0.101	0.07873		mg/Kg		78	70 - 130	11	35
m-Xylene & p-Xylene	<0.00403	U	0.201	0.1722		mg/Kg		86	70 - 130	10	35
o-Xylene	<0.00202	U	0.101	0.08702		mg/Kg		87	70 - 130	11	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

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

Lab Sample ID: MB 880-9832/1-A

Matrix: Solid

Analysis Batch: 9825

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9832

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		10/19/21 09:36	10/19/21 10:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/19/21 09:36	10/19/21 10:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/19/21 09:36	10/19/21 10:56	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1-Chlorooctane	83		70 - 130	10/19/21 09:36	10/19/21 10:56	1			
o-Terphenyl	93		70 - 130	10/19/21 09:36	10/19/21 10:56	1			

Eurofins Xenco, Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

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

Lab Sample ID: LCS 880-9832/2-A

Matrix: Solid

Analysis Batch: 9825

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9832

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec.		
			Added	Result	Qualifier			Limits			
Gasoline Range Organics (GRO)-C6-C10			1000	804.2		mg/Kg		80	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	781.0		mg/Kg		78	70 - 130		

Lab Sample ID: LCSD 880-9832/3-A

Matrix: Solid

Analysis Batch: 9825

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9832

Top Bottom											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	767.7		mg/Kg		77	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	750.8		mg/Kg		75	70 - 130	4	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
1-Chlorooctane	78		70 - 130								
o-Terphenyl	82		70 - 130								

Lab Sample ID: 820-2232-1 MS

Matrix: Solid

Analysis Batch: 9825

Client Sample ID: BG-1 (0-0.5)

Prep Type: Total/NA

Prep Batch: 9832

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	778.8		mg/Kg		78	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	741.7		mg/Kg		74	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	81		70 - 130								
o-Terphenyl	82		70 - 130								

Lab Sample ID: 820-2232-1 MSD

Matrix: Solid

Analysis Batch: 9825

Client Sample ID: BG-1 (0-0.5)

Prep Type: Total/NA

Prep Batch: 9832

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	<50.0	U	1000	777.4		mg/Kg	-	78	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	741.4		mg/Kg		74	70 - 130	0	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	82		70 - 130								

Eurofins Xenco, Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

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

Lab Sample ID: 820-2232-1 MSD

Matrix: Solid

Analysis Batch: 9825

Client Sample ID: BG-1 (0-0.5)

Prep Type: Total/NA

Prep Batch: 9832

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	80		70 - 130

Lab Sample ID: MB 880-9834/1-A

Matrix: Solid

Analysis Batch: 9827

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 9834

	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		10/19/21 09:45	10/19/21 10:56	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/19/21 09:45	10/19/21 10:56	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/19/21 09:45	10/19/21 10:56	1	
	MB	MB								
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	101		70 - 130				10/19/21 09:45	10/19/21 10:56	1	
<i>o</i> -Terphenyl	116		70 - 130				10/19/21 09:45	10/19/21 10:56	1	

Lab Sample ID: LCS 880-9834/2-A

Matrix: Solid

Analysis Batch: 9827

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 9834

	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	822.9		mg/Kg		82	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1015		mg/Kg		101	70 - 130		
	LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	94		70 - 130						
<i>o</i> -Terphenyl	96		70 - 130						

Lab Sample ID: LCSD 880-9834/3-A

Matrix: Solid

Analysis Batch: 9827

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 9834

	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	825.7		mg/Kg		83	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	965.7		mg/Kg		97	70 - 130	5	20
	LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	86		70 - 130						
<i>o</i> -Terphenyl	89		70 - 130						

Eurofins Xenco, Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

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

Lab Sample ID: 890-1428-A-3-D MS

Matrix: Solid

Analysis Batch: 9827

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 9834

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	3310		998	4234		mg/Kg		92	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	312	S1+	70 - 130								
o-Terphenyl	215	S1+	70 - 130								

Lab Sample ID: 890-1428-A-3-E MSD

Matrix: Solid

Analysis Batch: 9827

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 9834

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	3310		1000	4491		mg/Kg		118	70 - 130	6	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	268	S1+	70 - 130								
o-Terphenyl	203	S1+	70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-9570/1-A

Matrix: Solid

Analysis Batch: 9806

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			10/18/21 23:11	1

Lab Sample ID: LCS 880-9570/2-A

Matrix: Solid

Analysis Batch: 9806

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	243.6		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-9570/3-A

Matrix: Solid

Analysis Batch: 9806

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	244.3		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 820-2232-1 MS

Matrix: Solid

Analysis Batch: 9806

Client Sample ID: BG-1 (0-0.5)

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	12.3		248	259.6		mg/Kg		100	90 - 110

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 820-2232-1 MSD

Matrix: Solid

Analysis Batch: 9806

Client Sample ID: BG-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	12.3		248	258.0		mg/Kg		99	90 - 110	1	20

Lab Sample ID: MB 880-9716/1-A

Matrix: Solid

Analysis Batch: 9814

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			10/19/21 02:10	1

Lab Sample ID: LCS 880-9716/2-A

Matrix: Solid

Analysis Batch: 9814

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	245.4		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-9716/3-A

Matrix: Solid

Analysis Batch: 9814

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	245.7		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 820-2232-3 MS

Matrix: Solid

Analysis Batch: 9814

Client Sample ID: BG-1 (1.5-2)

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	11.6		248	262.8		mg/Kg		101	90 - 110

Lab Sample ID: 820-2232-3 MSD

Matrix: Solid

Analysis Batch: 9814

Client Sample ID: BG-1 (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	11.6		248	262.5		mg/Kg		101	90 - 110	0	20

Lab Sample ID: MB 880-9720/1-A

Matrix: Solid

Analysis Batch: 9829

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			10/19/21 08:43	1

Lab Sample ID: LCS 880-9720/2-A

Matrix: Solid

Analysis Batch: 9829

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	238.4		mg/Kg		95	90 - 110

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-9720/3-A

Matrix: Solid

Analysis Batch: 9829

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	239.1		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 820-2232-7 MS

Matrix: Solid

Analysis Batch: 9829

Client Sample ID: HA1 (0-0.5)

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	5250		1240	6581	4	mg/Kg		107	90 - 110		

Lab Sample ID: 820-2232-7 MSD

Matrix: Solid

Analysis Batch: 9829

Client Sample ID: HA1 (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	5250		1240	6580	4	mg/Kg		107	90 - 110	0	20

Lab Sample ID: 820-2232-23 MS

Matrix: Solid

Analysis Batch: 9829

Client Sample ID: HA8 (0-0.5)

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	2140		1250	3441		mg/Kg		104	90 - 110		

Lab Sample ID: 820-2232-23 MSD

Matrix: Solid

Analysis Batch: 9829

Client Sample ID: HA8 (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	2140		1250	3450		mg/Kg		105	90 - 110	0	20

Lab Sample ID: MB 880-9721/1-A

Matrix: Solid

Analysis Batch: 9830

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			10/19/21 12:09	1

Lab Sample ID: LCS 880-9721/2-A

Matrix: Solid

Analysis Batch: 9830

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	243.1		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-9721/3-A

Matrix: Solid

Analysis Batch: 9830

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	244.1		mg/Kg		98	90 - 110	0	20

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 820-2232-37 MS

Matrix: Solid

Analysis Batch: 9830

Client Sample ID: HA5 (0-0.5)

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1840	F1	1240	3217	F1	mg/Kg		111	90 - 110

Lab Sample ID: 820-2232-37 MSD

Matrix: Solid

Analysis Batch: 9830

Client Sample ID: HA5 (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	1840	F1	1240	3144		mg/Kg		105	90 - 110	2	20

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

GC VOA

Prep Batch: 9635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-2232-1	BG-1 (0-0.5)	Total/NA	Solid	5035	
820-2232-3	BG-1 (1.5-2)	Total/NA	Solid	5035	
820-2232-4	BG-2 (0-0.5)	Total/NA	Solid	5035	
820-2232-6	BG-2 (1.5-2)	Total/NA	Solid	5035	
820-2232-7	HA1 (0-0.5)	Total/NA	Solid	5035	
820-2232-9	HA1 (1.5-2)	Total/NA	Solid	5035	
820-2232-10	HA2 (0-0.5)	Total/NA	Solid	5035	
820-2232-12	HA2 (1.5-2)	Total/NA	Solid	5035	
820-2232-13	HA3 (0-0.5)	Total/NA	Solid	5035	
MB 880-9635/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-9635/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-9635/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1441-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
890-1441-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 9649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-2232-1	BG-1 (0-0.5)	Total/NA	Solid	8021B	9635
820-2232-3	BG-1 (1.5-2)	Total/NA	Solid	8021B	9635
820-2232-4	BG-2 (0-0.5)	Total/NA	Solid	8021B	9635
820-2232-6	BG-2 (1.5-2)	Total/NA	Solid	8021B	9635
820-2232-7	HA1 (0-0.5)	Total/NA	Solid	8021B	9635
820-2232-9	HA1 (1.5-2)	Total/NA	Solid	8021B	9635
820-2232-10	HA2 (0-0.5)	Total/NA	Solid	8021B	9635
820-2232-12	HA2 (1.5-2)	Total/NA	Solid	8021B	9635
820-2232-13	HA3 (0-0.5)	Total/NA	Solid	8021B	9635
MB 880-9635/5-A	Method Blank	Total/NA	Solid	8021B	9635
LCS 880-9635/1-A	Lab Control Sample	Total/NA	Solid	8021B	9635
LCSD 880-9635/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	9635
890-1441-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	9635
890-1441-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	9635

Prep Batch: 9750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-2232-15	HA3 (1.5-2)	Total/NA	Solid	5035	
820-2232-17	HA3 (4.5-5)	Total/NA	Solid	5035	
820-2232-18	HA12 (0-0.5)	Total/NA	Solid	5035	
820-2232-20	HA12 (1.5-2)	Total/NA	Solid	5035	
820-2232-22	HA12 (4.5-5)	Total/NA	Solid	5035	
820-2232-23	HA8 (0-0.5)	Total/NA	Solid	5035	
820-2232-25	HA8 (1.5-2)	Total/NA	Solid	5035	
820-2232-26	HA9 (0-0.5)	Total/NA	Solid	5035	
820-2232-28	HA9 (1.5-2)	Total/NA	Solid	5035	
820-2232-29	HA6 (0-0.5)	Total/NA	Solid	5035	
820-2232-31	HA6 (1.5-2)	Total/NA	Solid	5035	
820-2232-32	HA6 (3.5-4)	Total/NA	Solid	5035	
820-2232-34	HA4 (0.5-1)	Total/NA	Solid	5035	
820-2232-35	HA4 (1.5-2)	Total/NA	Solid	5035	
820-2232-37	HA5 (0-0.5)	Total/NA	Solid	5035	
820-2232-39	HA5 (1.5-2)	Total/NA	Solid	5035	
820-2232-40	HA5 (3-3.5)	Total/NA	Solid	5035	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

GC VOA (Continued)

Prep Batch: 9750 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-2232-42	HA7 (0.5-1)	Total/NA	Solid	5035	
820-2232-44	HA7 (3-3.5)	Total/NA	Solid	5035	
MB 880-9750/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-9750/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-9750/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
820-2232-15 MS	HA3 (1.5-2)	Total/NA	Solid	5035	
820-2232-15 MSD	HA3 (1.5-2)	Total/NA	Solid	5035	

Prep Batch: 9753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-2232-45	HA10 (0-0.5)	Total/NA	Solid	5035	
820-2232-47	HA10 (1.5-2)	Total/NA	Solid	5035	
820-2232-48	HA10 (3-3.5)	Total/NA	Solid	5035	
820-2232-50	HA11 (0.5-1)	Total/NA	Solid	5035	
820-2232-51	HA11 (1.5-2)	Total/NA	Solid	5035	
MB 880-9753/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-9753/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-9753/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
820-2232-45 MS	HA10 (0-0.5)	Total/NA	Solid	5035	
820-2232-45 MSD	HA10 (0-0.5)	Total/NA	Solid	5035	

Analysis Batch: 9898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-2232-15	HA3 (1.5-2)	Total/NA	Solid	8021B	9750
820-2232-17	HA3 (4.5-5)	Total/NA	Solid	8021B	9750
820-2232-18	HA12 (0-0.5)	Total/NA	Solid	8021B	9750
820-2232-20	HA12 (1.5-2)	Total/NA	Solid	8021B	9750
820-2232-22	HA12 (4.5-5)	Total/NA	Solid	8021B	9750
820-2232-23	HA8 (0-0.5)	Total/NA	Solid	8021B	9750
820-2232-25	HA8 (1.5-2)	Total/NA	Solid	8021B	9750
820-2232-26	HA9 (0-0.5)	Total/NA	Solid	8021B	9750
820-2232-28	HA9 (1.5-2)	Total/NA	Solid	8021B	9750
820-2232-29	HA6 (0-0.5)	Total/NA	Solid	8021B	9750
820-2232-31	HA6 (1.5-2)	Total/NA	Solid	8021B	9750
820-2232-32	HA6 (3.5-4)	Total/NA	Solid	8021B	9750
820-2232-34	HA4 (0.5-1)	Total/NA	Solid	8021B	9750
820-2232-35	HA4 (1.5-2)	Total/NA	Solid	8021B	9750
820-2232-37	HA5 (0-0.5)	Total/NA	Solid	8021B	9750
820-2232-39	HA5 (1.5-2)	Total/NA	Solid	8021B	9750
820-2232-40	HA5 (3-3.5)	Total/NA	Solid	8021B	9750
820-2232-42	HA7 (0.5-1)	Total/NA	Solid	8021B	9750
820-2232-44	HA7 (3-3.5)	Total/NA	Solid	8021B	9750
MB 880-9750/5-A	Method Blank	Total/NA	Solid	8021B	9750
LCS 880-9750/1-A	Lab Control Sample	Total/NA	Solid	8021B	9750
LCSD 880-9750/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	9750
820-2232-15 MS	HA3 (1.5-2)	Total/NA	Solid	8021B	9750
820-2232-15 MSD	HA3 (1.5-2)	Total/NA	Solid	8021B	9750

Analysis Batch: 9941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-2232-45	HA10 (0-0.5)	Total/NA	Solid	8021B	9753

Eurofins Xenco, Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

GC VOA (Continued)

Analysis Batch: 9941 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-2232-47	HA10 (1.5-2)	Total/NA	Solid	8021B	9753
820-2232-48	HA10 (3-3.5)	Total/NA	Solid	8021B	9753
820-2232-50	HA11 (0.5-1)	Total/NA	Solid	8021B	9753
820-2232-51	HA11 (1.5-2)	Total/NA	Solid	8021B	9753
MB 880-9753/5-A	Method Blank	Total/NA	Solid	8021B	9753
LCS 880-9753/1-A	Lab Control Sample	Total/NA	Solid	8021B	9753
LCSD 880-9753/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	9753
820-2232-45 MS	HA10 (0-0.5)	Total/NA	Solid	8021B	9753
820-2232-45 MSD	HA10 (0-0.5)	Total/NA	Solid	8021B	9753

Analysis Batch: 10032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-2232-1	BG-1 (0-0.5)	Total/NA	Solid	Total BTEX	
820-2232-3	BG-1 (1.5-2)	Total/NA	Solid	Total BTEX	
820-2232-4	BG-2 (0-0.5)	Total/NA	Solid	Total BTEX	
820-2232-6	BG-2 (1.5-2)	Total/NA	Solid	Total BTEX	
820-2232-7	HA1 (0-0.5)	Total/NA	Solid	Total BTEX	
820-2232-9	HA1 (1.5-2)	Total/NA	Solid	Total BTEX	
820-2232-10	HA2 (0-0.5)	Total/NA	Solid	Total BTEX	
820-2232-12	HA2 (1.5-2)	Total/NA	Solid	Total BTEX	
820-2232-13	HA3 (0-0.5)	Total/NA	Solid	Total BTEX	
820-2232-15	HA3 (1.5-2)	Total/NA	Solid	Total BTEX	
820-2232-17	HA3 (4.5-5)	Total/NA	Solid	Total BTEX	
820-2232-18	HA12 (0-0.5)	Total/NA	Solid	Total BTEX	
820-2232-20	HA12 (1.5-2)	Total/NA	Solid	Total BTEX	
820-2232-22	HA12 (4.5-5)	Total/NA	Solid	Total BTEX	
820-2232-23	HA8 (0-0.5)	Total/NA	Solid	Total BTEX	
820-2232-25	HA8 (1.5-2)	Total/NA	Solid	Total BTEX	
820-2232-26	HA9 (0-0.5)	Total/NA	Solid	Total BTEX	
820-2232-28	HA9 (1.5-2)	Total/NA	Solid	Total BTEX	
820-2232-29	HA6 (0-0.5)	Total/NA	Solid	Total BTEX	
820-2232-31	HA6 (1.5-2)	Total/NA	Solid	Total BTEX	
820-2232-32	HA6 (3.5-4)	Total/NA	Solid	Total BTEX	
820-2232-34	HA4 (0.5-1)	Total/NA	Solid	Total BTEX	
820-2232-35	HA4 (1.5-2)	Total/NA	Solid	Total BTEX	
820-2232-37	HA5 (0-0.5)	Total/NA	Solid	Total BTEX	
820-2232-39	HA5 (1.5-2)	Total/NA	Solid	Total BTEX	
820-2232-40	HA5 (3-3.5)	Total/NA	Solid	Total BTEX	
820-2232-42	HA7 (0.5-1)	Total/NA	Solid	Total BTEX	
820-2232-44	HA7 (3-3.5)	Total/NA	Solid	Total BTEX	
820-2232-45	HA10 (0-0.5)	Total/NA	Solid	Total BTEX	
820-2232-47	HA10 (1.5-2)	Total/NA	Solid	Total BTEX	
820-2232-48	HA10 (3-3.5)	Total/NA	Solid	Total BTEX	
820-2232-50	HA11 (0.5-1)	Total/NA	Solid	Total BTEX	
820-2232-51	HA11 (1.5-2)	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 9825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-2232-1	BG-1 (0-0.5)	Total/NA	Solid	8015B NM	9832

Eurofins Xenco, Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
 Project/Site: Libbey Connection Release

Job ID: 820-2232-1
 SDG: AR17165

GC Semi VOA (Continued)

Analysis Batch: 9825 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-2232-3	BG-1 (1.5-2)	Total/NA	Solid	8015B NM	9832
820-2232-4	BG-2 (0-0.5)	Total/NA	Solid	8015B NM	9832
820-2232-6	BG-2 (1.5-2)	Total/NA	Solid	8015B NM	9832
820-2232-7	HA1 (0-0.5)	Total/NA	Solid	8015B NM	9832
820-2232-9	HA1 (1.5-2)	Total/NA	Solid	8015B NM	9832
820-2232-10	HA2 (0-0.5)	Total/NA	Solid	8015B NM	9832
820-2232-12	HA2 (1.5-2)	Total/NA	Solid	8015B NM	9832
820-2232-13	HA3 (0-0.5)	Total/NA	Solid	8015B NM	9832
820-2232-15	HA3 (1.5-2)	Total/NA	Solid	8015B NM	9832
820-2232-17	HA3 (4.5-5)	Total/NA	Solid	8015B NM	9832
820-2232-18	HA12 (0-0.5)	Total/NA	Solid	8015B NM	9832
820-2232-20	HA12 (1.5-2)	Total/NA	Solid	8015B NM	9832
820-2232-22	HA12 (4.5-5)	Total/NA	Solid	8015B NM	9832
820-2232-23	HA8 (0-0.5)	Total/NA	Solid	8015B NM	9832
820-2232-25	HA8 (1.5-2)	Total/NA	Solid	8015B NM	9832
820-2232-26	HA9 (0-0.5)	Total/NA	Solid	8015B NM	9832
820-2232-28	HA9 (1.5-2)	Total/NA	Solid	8015B NM	9832
820-2232-29	HA6 (0-0.5)	Total/NA	Solid	8015B NM	9832
820-2232-31	HA6 (1.5-2)	Total/NA	Solid	8015B NM	9832
MB 880-9832/1-A	Method Blank	Total/NA	Solid	8015B NM	9832
LCS 880-9832/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	9832
LCSD 880-9832/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	9832
820-2232-1 MS	BG-1 (0-0.5)	Total/NA	Solid	8015B NM	9832
820-2232-1 MSD	BG-1 (0-0.5)	Total/NA	Solid	8015B NM	9832

Analysis Batch: 9827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-2232-32	HA6 (3.5-4)	Total/NA	Solid	8015B NM	9834
820-2232-34	HA4 (0.5-1)	Total/NA	Solid	8015B NM	9834
820-2232-35	HA4 (1.5-2)	Total/NA	Solid	8015B NM	9834
820-2232-37	HA5 (0-0.5)	Total/NA	Solid	8015B NM	9834
820-2232-39	HA5 (1.5-2)	Total/NA	Solid	8015B NM	9834
820-2232-40	HA5 (3-3.5)	Total/NA	Solid	8015B NM	9834
820-2232-42	HA7 (0.5-1)	Total/NA	Solid	8015B NM	9834
820-2232-44	HA7 (3-3.5)	Total/NA	Solid	8015B NM	9834
820-2232-45	HA10 (0-0.5)	Total/NA	Solid	8015B NM	9834
820-2232-47	HA10 (1.5-2)	Total/NA	Solid	8015B NM	9834
820-2232-48	HA10 (3-3.5)	Total/NA	Solid	8015B NM	9834
820-2232-50	HA11 (0.5-1)	Total/NA	Solid	8015B NM	9834
820-2232-51	HA11 (1.5-2)	Total/NA	Solid	8015B NM	9834
MB 880-9834/1-A	Method Blank	Total/NA	Solid	8015B NM	9834
LCS 880-9834/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	9834
LCSD 880-9834/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	9834
890-1428-A-3-D MS	Matrix Spike	Total/NA	Solid	8015B NM	9834
890-1428-A-3-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	9834

Prep Batch: 9832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-2232-1	BG-1 (0-0.5)	Total/NA	Solid	8015NM Prep	
820-2232-3	BG-1 (1.5-2)	Total/NA	Solid	8015NM Prep	
820-2232-4	BG-2 (0-0.5)	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

GC Semi VOA (Continued)

Prep Batch: 9832 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-2232-6	BG-2 (1.5-2)	Total/NA	Solid	8015NM Prep	
820-2232-7	HA1 (0-0.5)	Total/NA	Solid	8015NM Prep	
820-2232-9	HA1 (1.5-2)	Total/NA	Solid	8015NM Prep	
820-2232-10	HA2 (0-0.5)	Total/NA	Solid	8015NM Prep	
820-2232-12	HA2 (1.5-2)	Total/NA	Solid	8015NM Prep	
820-2232-13	HA3 (0-0.5)	Total/NA	Solid	8015NM Prep	
820-2232-15	HA3 (1.5-2)	Total/NA	Solid	8015NM Prep	
820-2232-17	HA3 (4.5-5)	Total/NA	Solid	8015NM Prep	
820-2232-18	HA12 (0-0.5)	Total/NA	Solid	8015NM Prep	
820-2232-20	HA12 (1.5-2)	Total/NA	Solid	8015NM Prep	
820-2232-22	HA12 (4.5-5)	Total/NA	Solid	8015NM Prep	
820-2232-23	HA8 (0-0.5)	Total/NA	Solid	8015NM Prep	
820-2232-25	HA8 (1.5-2)	Total/NA	Solid	8015NM Prep	
820-2232-26	HA9 (0-0.5)	Total/NA	Solid	8015NM Prep	
820-2232-28	HA9 (1.5-2)	Total/NA	Solid	8015NM Prep	
820-2232-29	HA6 (0-0.5)	Total/NA	Solid	8015NM Prep	
820-2232-31	HA6 (1.5-2)	Total/NA	Solid	8015NM Prep	
MB 880-9832/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-9832/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-9832/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
820-2232-1 MS	BG-1 (0-0.5)	Total/NA	Solid	8015NM Prep	
820-2232-1 MSD	BG-1 (0-0.5)	Total/NA	Solid	8015NM Prep	

Prep Batch: 9834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-2232-32	HA6 (3.5-4)	Total/NA	Solid	8015NM Prep	
820-2232-34	HA4 (0.5-1)	Total/NA	Solid	8015NM Prep	
820-2232-35	HA4 (1.5-2)	Total/NA	Solid	8015NM Prep	
820-2232-37	HA5 (0-0.5)	Total/NA	Solid	8015NM Prep	
820-2232-39	HA5 (1.5-2)	Total/NA	Solid	8015NM Prep	
820-2232-40	HA5 (3-3.5)	Total/NA	Solid	8015NM Prep	
820-2232-42	HA7 (0.5-1)	Total/NA	Solid	8015NM Prep	
820-2232-44	HA7 (3-3.5)	Total/NA	Solid	8015NM Prep	
820-2232-45	HA10 (0-0.5)	Total/NA	Solid	8015NM Prep	
820-2232-47	HA10 (1.5-2)	Total/NA	Solid	8015NM Prep	
820-2232-48	HA10 (3-3.5)	Total/NA	Solid	8015NM Prep	
820-2232-50	HA11 (0.5-1)	Total/NA	Solid	8015NM Prep	
820-2232-51	HA11 (1.5-2)	Total/NA	Solid	8015NM Prep	
MB 880-9834/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-9834/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-9834/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1428-A-3-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1428-A-3-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 9896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-2232-1	BG-1 (0-0.5)	Total/NA	Solid	8015 NM	
820-2232-3	BG-1 (1.5-2)	Total/NA	Solid	8015 NM	
820-2232-4	BG-2 (0-0.5)	Total/NA	Solid	8015 NM	
820-2232-6	BG-2 (1.5-2)	Total/NA	Solid	8015 NM	
820-2232-7	HA1 (0-0.5)	Total/NA	Solid	8015 NM	

Eurofins Xenco, Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

GC Semi VOA (Continued)

Analysis Batch: 9896 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-2232-9	HA1 (1.5-2)	Total/NA	Solid	8015 NM	
820-2232-10	HA2 (0-0.5)	Total/NA	Solid	8015 NM	
820-2232-12	HA2 (1.5-2)	Total/NA	Solid	8015 NM	
820-2232-13	HA3 (0-0.5)	Total/NA	Solid	8015 NM	
820-2232-15	HA3 (1.5-2)	Total/NA	Solid	8015 NM	
820-2232-17	HA3 (4.5-5)	Total/NA	Solid	8015 NM	
820-2232-18	HA12 (0-0.5)	Total/NA	Solid	8015 NM	
820-2232-20	HA12 (1.5-2)	Total/NA	Solid	8015 NM	
820-2232-22	HA12 (4.5-5)	Total/NA	Solid	8015 NM	
820-2232-23	HA8 (0-0.5)	Total/NA	Solid	8015 NM	
820-2232-25	HA8 (1.5-2)	Total/NA	Solid	8015 NM	
820-2232-26	HA9 (0-0.5)	Total/NA	Solid	8015 NM	
820-2232-28	HA9 (1.5-2)	Total/NA	Solid	8015 NM	
820-2232-29	HA6 (0-0.5)	Total/NA	Solid	8015 NM	
820-2232-31	HA6 (1.5-2)	Total/NA	Solid	8015 NM	
820-2232-32	HA6 (3.5-4)	Total/NA	Solid	8015 NM	
820-2232-34	HA4 (0.5-1)	Total/NA	Solid	8015 NM	
820-2232-35	HA4 (1.5-2)	Total/NA	Solid	8015 NM	
820-2232-37	HA5 (0-0.5)	Total/NA	Solid	8015 NM	
820-2232-39	HA5 (1.5-2)	Total/NA	Solid	8015 NM	
820-2232-40	HA5 (3-3.5)	Total/NA	Solid	8015 NM	
820-2232-42	HA7 (0.5-1)	Total/NA	Solid	8015 NM	
820-2232-44	HA7 (3-3.5)	Total/NA	Solid	8015 NM	
820-2232-45	HA10 (0-0.5)	Total/NA	Solid	8015 NM	
820-2232-47	HA10 (1.5-2)	Total/NA	Solid	8015 NM	
820-2232-48	HA10 (3-3.5)	Total/NA	Solid	8015 NM	
820-2232-50	HA11 (0.5-1)	Total/NA	Solid	8015 NM	
820-2232-51	HA11 (1.5-2)	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 9570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-2232-1	BG-1 (0-0.5)	Soluble	Solid	DI Leach	
MB 880-9570/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9570/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9570/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
820-2232-1 MS	BG-1 (0-0.5)	Soluble	Solid	DI Leach	
820-2232-1 MSD	BG-1 (0-0.5)	Soluble	Solid	DI Leach	

Leach Batch: 9716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-2232-3	BG-1 (1.5-2)	Soluble	Solid	DI Leach	
820-2232-4	BG-2 (0-0.5)	Soluble	Solid	DI Leach	
820-2232-6	BG-2 (1.5-2)	Soluble	Solid	DI Leach	
MB 880-9716/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9716/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9716/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
820-2232-3 MS	BG-1 (1.5-2)	Soluble	Solid	DI Leach	
820-2232-3 MSD	BG-1 (1.5-2)	Soluble	Solid	DI Leach	

Eurofins Xenco, Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

HPLC/IC

Leach Batch: 9720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-2232-7	HA1 (0-0.5)	Soluble	Solid	DI Leach	
820-2232-9	HA1 (1.5-2)	Soluble	Solid	DI Leach	
820-2232-10	HA2 (0-0.5)	Soluble	Solid	DI Leach	
820-2232-12	HA2 (1.5-2)	Soluble	Solid	DI Leach	
820-2232-13	HA3 (0-0.5)	Soluble	Solid	DI Leach	
820-2232-15	HA3 (1.5-2)	Soluble	Solid	DI Leach	
820-2232-17	HA3 (4.5-5)	Soluble	Solid	DI Leach	
820-2232-18	HA12 (0-0.5)	Soluble	Solid	DI Leach	
820-2232-20	HA12 (1.5-2)	Soluble	Solid	DI Leach	
820-2232-22	HA12 (4.5-5)	Soluble	Solid	DI Leach	
820-2232-23	HA8 (0-0.5)	Soluble	Solid	DI Leach	
820-2232-25	HA8 (1.5-2)	Soluble	Solid	DI Leach	
820-2232-26	HA9 (0-0.5)	Soluble	Solid	DI Leach	
820-2232-28	HA9 (1.5-2)	Soluble	Solid	DI Leach	
820-2232-29	HA6 (0-0.5)	Soluble	Solid	DI Leach	
820-2232-31	HA6 (1.5-2)	Soluble	Solid	DI Leach	
820-2232-32	HA6 (3.5-4)	Soluble	Solid	DI Leach	
820-2232-34	HA4 (0.5-1)	Soluble	Solid	DI Leach	
820-2232-35	HA4 (1.5-2)	Soluble	Solid	DI Leach	
MB 880-9720/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9720/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9720/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
820-2232-7 MS	HA1 (0-0.5)	Soluble	Solid	DI Leach	
820-2232-7 MSD	HA1 (0-0.5)	Soluble	Solid	DI Leach	
820-2232-23 MS	HA8 (0-0.5)	Soluble	Solid	DI Leach	
820-2232-23 MSD	HA8 (0-0.5)	Soluble	Solid	DI Leach	

Leach Batch: 9721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-2232-37	HA5 (0-0.5)	Soluble	Solid	DI Leach	
820-2232-39	HA5 (1.5-2)	Soluble	Solid	DI Leach	
820-2232-40	HA5 (3-3.5)	Soluble	Solid	DI Leach	
820-2232-42	HA7 (0.5-1)	Soluble	Solid	DI Leach	
820-2232-44	HA7 (3-3.5)	Soluble	Solid	DI Leach	
820-2232-45	HA10 (0-0.5)	Soluble	Solid	DI Leach	
820-2232-47	HA10 (1.5-2)	Soluble	Solid	DI Leach	
820-2232-48	HA10 (3-3.5)	Soluble	Solid	DI Leach	
820-2232-50	HA11 (0.5-1)	Soluble	Solid	DI Leach	
820-2232-51	HA11 (1.5-2)	Soluble	Solid	DI Leach	
MB 880-9721/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9721/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9721/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
820-2232-37 MS	HA5 (0-0.5)	Soluble	Solid	DI Leach	
820-2232-37 MSD	HA5 (0-0.5)	Soluble	Solid	DI Leach	

Analysis Batch: 9806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-2232-1	BG-1 (0-0.5)	Soluble	Solid	300.0	9570
MB 880-9570/1-A	Method Blank	Soluble	Solid	300.0	9570
LCS 880-9570/2-A	Lab Control Sample	Soluble	Solid	300.0	9570
LCSD 880-9570/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9570

Eurofins Xenco, Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

HPLC/IC (Continued)

Analysis Batch: 9806 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-2232-1 MS	BG-1 (0-0.5)	Soluble	Solid	300.0	9570
820-2232-1 MSD	BG-1 (0-0.5)	Soluble	Solid	300.0	9570

Analysis Batch: 9814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-2232-3	BG-1 (1.5-2)	Soluble	Solid	300.0	9716
820-2232-4	BG-2 (0-0.5)	Soluble	Solid	300.0	9716
820-2232-6	BG-2 (1.5-2)	Soluble	Solid	300.0	9716
MB 880-9716/1-A	Method Blank	Soluble	Solid	300.0	9716
LCS 880-9716/2-A	Lab Control Sample	Soluble	Solid	300.0	9716
LCSD 880-9716/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9716
820-2232-3 MS	BG-1 (1.5-2)	Soluble	Solid	300.0	9716
820-2232-3 MSD	BG-1 (1.5-2)	Soluble	Solid	300.0	9716

Analysis Batch: 9829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-2232-7	HA1 (0-0.5)	Soluble	Solid	300.0	9720
820-2232-9	HA1 (1.5-2)	Soluble	Solid	300.0	9720
820-2232-10	HA2 (0-0.5)	Soluble	Solid	300.0	9720
820-2232-12	HA2 (1.5-2)	Soluble	Solid	300.0	9720
820-2232-13	HA3 (0-0.5)	Soluble	Solid	300.0	9720
820-2232-15	HA3 (1.5-2)	Soluble	Solid	300.0	9720
820-2232-17	HA3 (4.5-5)	Soluble	Solid	300.0	9720
820-2232-18	HA12 (0-0.5)	Soluble	Solid	300.0	9720
820-2232-20	HA12 (1.5-2)	Soluble	Solid	300.0	9720
820-2232-22	HA12 (4.5-5)	Soluble	Solid	300.0	9720
820-2232-23	HA8 (0-0.5)	Soluble	Solid	300.0	9720
820-2232-25	HA8 (1.5-2)	Soluble	Solid	300.0	9720
820-2232-26	HA9 (0-0.5)	Soluble	Solid	300.0	9720
820-2232-28	HA9 (1.5-2)	Soluble	Solid	300.0	9720
820-2232-29	HA6 (0-0.5)	Soluble	Solid	300.0	9720
820-2232-31	HA6 (1.5-2)	Soluble	Solid	300.0	9720
820-2232-32	HA6 (3.5-4)	Soluble	Solid	300.0	9720
820-2232-34	HA4 (0.5-1)	Soluble	Solid	300.0	9720
820-2232-35	HA4 (1.5-2)	Soluble	Solid	300.0	9720
MB 880-9720/1-A	Method Blank	Soluble	Solid	300.0	9720
LCS 880-9720/2-A	Lab Control Sample	Soluble	Solid	300.0	9720
LCSD 880-9720/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9720
820-2232-7 MS	HA1 (0-0.5)	Soluble	Solid	300.0	9720
820-2232-7 MSD	HA1 (0-0.5)	Soluble	Solid	300.0	9720
820-2232-23 MS	HA8 (0-0.5)	Soluble	Solid	300.0	9720
820-2232-23 MSD	HA8 (0-0.5)	Soluble	Solid	300.0	9720

Analysis Batch: 9830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-2232-37	HA5 (0-0.5)	Soluble	Solid	300.0	9721
820-2232-39	HA5 (1.5-2)	Soluble	Solid	300.0	9721
820-2232-40	HA5 (3-3.5)	Soluble	Solid	300.0	9721
820-2232-42	HA7 (0.5-1)	Soluble	Solid	300.0	9721
820-2232-44	HA7 (3-3.5)	Soluble	Solid	300.0	9721
820-2232-45	HA10 (0-0.5)	Soluble	Solid	300.0	9721

Eurofins Xenco, Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

HPLC/IC (Continued)

Analysis Batch: 9830 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-2232-47	HA10 (1.5-2)	Soluble	Solid	300.0	9721
820-2232-48	HA10 (3-3.5)	Soluble	Solid	300.0	9721
820-2232-50	HA11 (0.5-1)	Soluble	Solid	300.0	9721
820-2232-51	HA11 (1.5-2)	Soluble	Solid	300.0	9721
MB 880-9721/1-A	Method Blank	Soluble	Solid	300.0	9721
LCS 880-9721/2-A	Lab Control Sample	Soluble	Solid	300.0	9721
LCSD 880-9721/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9721
820-2232-37 MS	HA5 (0-0.5)	Soluble	Solid	300.0	9721
820-2232-37 MSD	HA5 (0-0.5)	Soluble	Solid	300.0	9721

Eurofins Xenco, Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

Client Sample ID: BG-1 (0-0.5)

Lab Sample ID: 820-2232-1

Date Collected: 10/12/21 11:47

Matrix: Solid

Date Received: 10/13/21 15:41

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	9635	10/18/21 09:40	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9649	10/18/21 18:54	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10032	10/20/21 15:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9896	10/19/21 13:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9832	10/19/21 09:36	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			9825	10/19/21 12:01	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9570	10/15/21 17:49	CA	XEN MID
Soluble	Analysis	300.0		1			9806	10/18/21 23:28	SC	XEN MID

Client Sample ID: BG-1 (1.5-2)

Lab Sample ID: 820-2232-3

Date Collected: 10/12/21 11:51

Matrix: Solid

Date Received: 10/13/21 15:41

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	9635	10/18/21 09:40	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9649	10/18/21 19:14	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10032	10/20/21 15:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9896	10/19/21 13:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9832	10/19/21 09:36	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			9825	10/19/21 13:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9716	10/18/21 13:37	CA	XEN MID
Soluble	Analysis	300.0		1			9814	10/19/21 02:27	SC	XEN MID

Client Sample ID: BG-2 (0-0.5)

Lab Sample ID: 820-2232-4

Date Collected: 10/12/21 11:53

Matrix: Solid

Date Received: 10/13/21 15:41

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	9635	10/18/21 09:40	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9649	10/18/21 19:35	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10032	10/20/21 15:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9896	10/19/21 13:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9832	10/19/21 09:36	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			9825	10/19/21 13:27	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	9716	10/18/21 13:37	CA	XEN MID
Soluble	Analysis	300.0		1			9814	10/19/21 02:44	SC	XEN MID

Client Sample ID: BG-2 (1.5-2)

Lab Sample ID: 820-2232-6

Date Collected: 10/12/21 11:57

Matrix: Solid

Date Received: 10/13/21 15:41

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	9635	10/18/21 09:40	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9649	10/18/21 19:55	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10032	10/20/21 15:04	AJ	XEN MID

Eurofins Xenco, Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

Client Sample ID: BG-2 (1.5-2)

Lab Sample ID: 820-2232-6

Date Collected: 10/12/21 11:57

Matrix: Solid

Date Received: 10/13/21 15:41

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			9896	10/19/21 13:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9832	10/19/21 09:36	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			9825	10/19/21 13:49	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	9716	10/18/21 13:37	CA	XEN MID
Soluble	Analysis	300.0		1			9814	10/19/21 02:49	SC	XEN MID

Client Sample ID: HA1 (0-0.5)

Lab Sample ID: 820-2232-7

Date Collected: 10/12/21 11:59

Matrix: Solid

Date Received: 10/13/21 15:41

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	9635	10/18/21 09:40	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9649	10/18/21 20:16	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10032	10/20/21 15:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9896	10/19/21 13:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9832	10/19/21 09:36	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			9825	10/19/21 14:10	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9720	10/18/21 13:46	CA	XEN MID
Soluble	Analysis	300.0		5	0 mL	1.0 mL	9829	10/19/21 08:59	SC	XEN MID

Client Sample ID: HA1 (1.5-2)

Lab Sample ID: 820-2232-9

Date Collected: 10/12/21 12:03

Matrix: Solid

Date Received: 10/13/21 15:41

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	9635	10/18/21 09:40	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9649	10/18/21 20:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10032	10/20/21 15:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9896	10/19/21 13:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.0 g	10 mL	9832	10/19/21 09:36	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			9825	10/19/21 14:32	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	9720	10/18/21 13:46	CA	XEN MID
Soluble	Analysis	300.0		5			9829	10/19/21 09:16	SC	XEN MID

Client Sample ID: HA2 (0-0.5)

Lab Sample ID: 820-2232-10

Date Collected: 10/12/21 12:05

Matrix: Solid

Date Received: 10/13/21 15:41

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	9635	10/18/21 09:40	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9649	10/18/21 20:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10032	10/20/21 15:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9896	10/19/21 13:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9832	10/19/21 09:36	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			9825	10/19/21 14:53	AJ	XEN MID

Eurofins Xenco, Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

Client Sample ID: HA2 (0-0.5)

Lab Sample ID: 820-2232-10

Date Collected: 10/12/21 12:05

Matrix: Solid

Date Received: 10/13/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	9720	10/18/21 13:46	CA	XEN MID
Soluble	Analysis	300.0		1			9829	10/19/21 09:22	SC	XEN MID

Client Sample ID: HA2 (1.5-2)

Lab Sample ID: 820-2232-12

Date Collected: 10/12/21 12:09

Matrix: Solid

Date Received: 10/13/21 15:41

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	9635	10/18/21 09:40	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9649	10/18/21 21:17	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10032	10/20/21 15:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9896	10/19/21 13:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9832	10/19/21 09:36	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			9825	10/19/21 15:14	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	9720	10/18/21 13:46	CA	XEN MID
Soluble	Analysis	300.0		1			9829	10/19/21 09:28	SC	XEN MID

Client Sample ID: HA3 (0-0.5)

Lab Sample ID: 820-2232-13

Date Collected: 10/12/21 12:11

Matrix: Solid

Date Received: 10/13/21 15:41

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	9635	10/18/21 09:40	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9649	10/18/21 21:37	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			10032	10/20/21 15:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9896	10/19/21 13:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9832	10/19/21 09:36	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			9825	10/19/21 15:36	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9720	10/18/21 13:46	CA	XEN MID
Soluble	Analysis	300.0		5			9829	10/19/21 09:33	SC	XEN MID

Client Sample ID: HA3 (1.5-2)

Lab Sample ID: 820-2232-15

Date Collected: 10/12/21 12:15

Matrix: Solid

Date Received: 10/13/21 15:41

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	9750	10/18/21 14:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9898	10/19/21 17:33	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10032	10/20/21 15:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9896	10/19/21 13:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	9832	10/19/21 09:36	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			9825	10/19/21 15:58	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9720	10/18/21 13:46	CA	XEN MID
Soluble	Analysis	300.0		1			9829	10/19/21 09:50	SC	XEN MID

Eurofins Xenco, Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

Client Sample ID: HA3 (4.5-5)

Lab Sample ID: 820-2232-17

Date Collected: 10/12/21 12:19

Matrix: Solid

Date Received: 10/13/21 15:41

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	9750	10/18/21 14:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9898	10/19/21 17:53	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10032	10/20/21 15:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9896	10/19/21 13:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9832	10/19/21 09:36	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			9825	10/19/21 16:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9720	10/18/21 13:46	CA	XEN MID
Soluble	Analysis	300.0		1			9829	10/19/21 09:56	SC	XEN MID

Client Sample ID: HA12 (0-0.5)

Lab Sample ID: 820-2232-18

Date Collected: 10/12/21 12:21

Matrix: Solid

Date Received: 10/13/21 15:41

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	9750	10/18/21 14:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9898	10/19/21 18:14	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10032	10/20/21 15:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9896	10/19/21 13:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9832	10/19/21 09:36	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			9825	10/19/21 17:01	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9720	10/18/21 13:46	CA	XEN MID
Soluble	Analysis	300.0		1			9829	10/19/21 10:01	SC	XEN MID

Client Sample ID: HA12 (1.5-2)

Lab Sample ID: 820-2232-20

Date Collected: 10/12/21 12:25

Matrix: Solid

Date Received: 10/13/21 15:41

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	9750	10/18/21 14:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9898	10/19/21 18:35	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10032	10/20/21 15:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9896	10/19/21 13:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9832	10/19/21 09:36	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			9825	10/19/21 17:22	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	9720	10/18/21 13:46	CA	XEN MID
Soluble	Analysis	300.0		1			9829	10/19/21 10:07	SC	XEN MID

Client Sample ID: HA12 (4.5-5)

Lab Sample ID: 820-2232-22

Date Collected: 10/12/21 12:29

Matrix: Solid

Date Received: 10/13/21 15:41

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	9750	10/18/21 14:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9898	10/19/21 18:55	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10032	10/20/21 15:04	AJ	XEN MID

Eurofins Xenco, Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

Client Sample ID: HA12 (4.5-5)

Lab Sample ID: 820-2232-22

Date Collected: 10/12/21 12:29

Matrix: Solid

Date Received: 10/13/21 15:41

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			9896	10/19/21 13:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.0 g	10 mL	9832	10/19/21 09:36	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			9825	10/19/21 17:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	9720	10/18/21 13:46	CA	XEN MID
Soluble	Analysis	300.0		1			9829	10/19/21 10:13	SC	XEN MID

Client Sample ID: HA8 (0-0.5)

Lab Sample ID: 820-2232-23

Date Collected: 10/12/21 12:31

Matrix: Solid

Date Received: 10/13/21 15:41

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	9750	10/18/21 14:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9898	10/19/21 19:16	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10032	10/20/21 15:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9896	10/19/21 13:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	9832	10/19/21 09:36	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			9825	10/19/21 18:05	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	9720	10/18/21 13:46	CA	XEN MID
Soluble	Analysis	300.0		5			9829	10/19/21 10:18	SC	XEN MID

Client Sample ID: HA8 (1.5-2)

Lab Sample ID: 820-2232-25

Date Collected: 10/12/21 12:35

Matrix: Solid

Date Received: 10/13/21 15:41

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	9750	10/18/21 14:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9898	10/19/21 19:36	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10032	10/20/21 15:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9896	10/19/21 13:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9832	10/19/21 09:36	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			9825	10/19/21 18:27	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9720	10/18/21 13:46	CA	XEN MID
Soluble	Analysis	300.0		1			9829	10/19/21 10:35	SC	XEN MID

Client Sample ID: HA9 (0-0.5)

Lab Sample ID: 820-2232-26

Date Collected: 10/12/21 12:37

Matrix: Solid

Date Received: 10/13/21 15:41

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	9750	10/18/21 14:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9898	10/19/21 19:57	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10032	10/20/21 15:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9896	10/19/21 13:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9832	10/19/21 09:36	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			9825	10/19/21 18:48	AJ	XEN MID

Eurofins Xenco, Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

Client Sample ID: HA9 (0-0.5)

Lab Sample ID: 820-2232-26

Date Collected: 10/12/21 12:37

Matrix: Solid

Date Received: 10/13/21 15:41

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	9720	10/18/21 13:46	CA	XEN MID
Soluble	Analysis	300.0		1			9829	10/19/21 10:41	SC	XEN MID

Client Sample ID: HA9 (1.5-2)

Lab Sample ID: 820-2232-28

Date Collected: 10/12/21 12:41

Matrix: Solid

Date Received: 10/13/21 15:41

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	9750	10/18/21 14:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9898	10/19/21 20:18	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10032	10/20/21 15:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9896	10/19/21 13:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9832	10/19/21 09:36	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			9825	10/19/21 19:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	9720	10/18/21 13:46	CA	XEN MID
Soluble	Analysis	300.0		1			9829	10/19/21 10:57	SC	XEN MID

Client Sample ID: HA6 (0-0.5)

Lab Sample ID: 820-2232-29

Date Collected: 10/12/21 12:43

Matrix: Solid

Date Received: 10/13/21 15:41

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	9750	10/18/21 14:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9898	10/19/21 20:38	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10032	10/20/21 15:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9896	10/19/21 13:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9832	10/19/21 09:36	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			9825	10/19/21 19:31	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9720	10/18/21 13:46	CA	XEN MID
Soluble	Analysis	300.0		1			9829	10/19/21 11:03	SC	XEN MID

Client Sample ID: HA6 (1.5-2)

Lab Sample ID: 820-2232-31

Date Collected: 10/12/21 12:47

Matrix: Solid

Date Received: 10/13/21 15:41

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	9750	10/18/21 14:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9898	10/19/21 22:00	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10032	10/20/21 15:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9896	10/19/21 13:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9832	10/19/21 09:36	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			9825	10/19/21 19:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9720	10/18/21 13:46	CA	XEN MID
Soluble	Analysis	300.0		1			9829	10/19/21 11:09	SC	XEN MID

Eurofins Xenco, Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

Client Sample ID: HA6 (3.5-4)

Lab Sample ID: 820-2232-32

Date Collected: 10/12/21 12:49

Matrix: Solid

Date Received: 10/13/21 15:41

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	9750	10/18/21 14:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9898	10/19/21 22:21	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10032	10/20/21 15:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9896	10/19/21 13:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9834	10/19/21 09:45	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			9827	10/19/21 14:10	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9720	10/18/21 13:46	CA	XEN MID
Soluble	Analysis	300.0		1			9829	10/19/21 11:14	SC	XEN MID

Client Sample ID: HA4 (0.5-1)

Lab Sample ID: 820-2232-34

Date Collected: 10/12/21 12:53

Matrix: Solid

Date Received: 10/13/21 15:41

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	9750	10/18/21 14:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9898	10/19/21 22:42	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10032	10/20/21 15:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9896	10/19/21 13:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9834	10/19/21 09:45	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			9827	10/19/21 14:32	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	9720	10/18/21 13:46	CA	XEN MID
Soluble	Analysis	300.0		1			9829	10/19/21 11:20	SC	XEN MID

Client Sample ID: HA4 (1.5-2)

Lab Sample ID: 820-2232-35

Date Collected: 10/12/21 12:55

Matrix: Solid

Date Received: 10/13/21 15:41

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	9750	10/18/21 14:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9898	10/19/21 23:02	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10032	10/20/21 15:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9896	10/19/21 13:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9834	10/19/21 09:45	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			9827	10/19/21 14:53	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9720	10/18/21 13:46	CA	XEN MID
Soluble	Analysis	300.0		1			9829	10/19/21 11:26	SC	XEN MID

Client Sample ID: HA5 (0-0.5)

Lab Sample ID: 820-2232-37

Date Collected: 10/12/21 12:59

Matrix: Solid

Date Received: 10/13/21 15:41

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	9750	10/18/21 14:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9898	10/19/21 23:23	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10032	10/20/21 15:04	AJ	XEN MID

Eurofins Xenco, Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

Client Sample ID: HA5 (0-0.5)

Lab Sample ID: 820-2232-37

Date Collected: 10/12/21 12:59

Matrix: Solid

Date Received: 10/13/21 15:41

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			9896	10/19/21 13:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9834	10/19/21 09:45	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			9827	10/19/21 15:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9721	10/18/21 13:49	CA	XEN MID
Soluble	Analysis	300.0		5			9830	10/19/21 12:28	CH	XEN MID

Client Sample ID: HA5 (1.5-2)

Lab Sample ID: 820-2232-39

Date Collected: 10/12/21 13:03

Matrix: Solid

Date Received: 10/13/21 15:41

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	9750	10/18/21 14:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9898	10/19/21 23:43	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10032	10/20/21 15:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9896	10/19/21 13:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9834	10/19/21 09:45	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			9827	10/19/21 15:36	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	9721	10/18/21 13:49	CA	XEN MID
Soluble	Analysis	300.0		1			9830	10/19/21 12:47	CH	XEN MID

Client Sample ID: HA5 (3-3.5)

Lab Sample ID: 820-2232-40

Date Collected: 10/12/21 13:05

Matrix: Solid

Date Received: 10/13/21 15:41

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	9750	10/18/21 14:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9898	10/20/21 00:04	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10032	10/20/21 15:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9896	10/19/21 13:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9834	10/19/21 09:45	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			9827	10/19/21 15:58	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	9721	10/18/21 13:49	CA	XEN MID
Soluble	Analysis	300.0		1			9830	10/19/21 12:53	CH	XEN MID

Client Sample ID: HA7 (0.5-1)

Lab Sample ID: 820-2232-42

Date Collected: 10/12/21 13:09

Matrix: Solid

Date Received: 10/13/21 15:41

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	9750	10/18/21 14:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9898	10/20/21 00:25	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10032	10/20/21 15:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9896	10/19/21 13:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9834	10/19/21 09:45	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			9827	10/19/21 16:40	AJ	XEN MID

Eurofins Xenco, Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

Client Sample ID: HA7 (0.5-1)

Lab Sample ID: 820-2232-42

Date Collected: 10/12/21 13:09

Matrix: Solid

Date Received: 10/13/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	9721	10/18/21 13:49	CA	XEN MID
Soluble	Analysis	300.0		10			9830	10/19/21 13:00	CH	XEN MID

Client Sample ID: HA7 (3-3.5)

Lab Sample ID: 820-2232-44

Date Collected: 10/12/21 13:13

Matrix: Solid

Date Received: 10/13/21 15:41

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	9750	10/18/21 14:10	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9898	10/20/21 00:45	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10032	10/20/21 15:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9896	10/19/21 13:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	9834	10/19/21 09:45	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			9827	10/19/21 17:01	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9721	10/18/21 13:49	CA	XEN MID
Soluble	Analysis	300.0		5			9830	10/19/21 13:06	CH	XEN MID

Client Sample ID: HA10 (0-0.5)

Lab Sample ID: 820-2232-45

Date Collected: 10/12/21 13:15

Matrix: Solid

Date Received: 10/13/21 15:41

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	9753	10/18/21 14:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9941	10/20/21 16:43	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10032	10/20/21 15:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9896	10/19/21 13:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	9834	10/19/21 09:45	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			9827	10/19/21 17:22	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9721	10/18/21 13:49	CA	XEN MID
Soluble	Analysis	300.0		1			9830	10/19/21 13:25	CH	XEN MID

Client Sample ID: HA10 (1.5-2)

Lab Sample ID: 820-2232-47

Date Collected: 10/12/21 13:19

Matrix: Solid

Date Received: 10/13/21 15:41

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	9753	10/18/21 14:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9941	10/20/21 17:04	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10032	10/20/21 15:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9896	10/20/21 13:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9834	10/19/21 09:45	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			9827	10/19/21 17:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9721	10/18/21 13:49	CA	XEN MID
Soluble	Analysis	300.0		5			9830	10/19/21 13:31	CH	XEN MID

Eurofins Xenco, Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

Client Sample ID: HA10 (3-3.5)

Lab Sample ID: 820-2232-48

Date Collected: 10/12/21 13:21

Matrix: Solid

Date Received: 10/13/21 15:41

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	9753	10/18/21 14:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9941	10/20/21 17:24	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10032	10/20/21 15:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9896	10/20/21 13:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9834	10/19/21 09:45	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			9827	10/19/21 18:05	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9721	10/18/21 13:49	CA	XEN MID
Soluble	Analysis	300.0		1			9830	10/19/21 13:37	CH	XEN MID

Client Sample ID: HA11 (0.5-1)

Lab Sample ID: 820-2232-50

Date Collected: 10/12/21 13:25

Matrix: Solid

Date Received: 10/13/21 15:41

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	9753	10/18/21 14:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9941	10/20/21 17:45	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10032	10/20/21 15:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9896	10/20/21 13:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9834	10/19/21 09:45	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			9827	10/19/21 18:27	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	9721	10/18/21 13:49	CA	XEN MID
Soluble	Analysis	300.0		1			9830	10/19/21 13:44	CH	XEN MID

Client Sample ID: HA11 (1.5-2)

Lab Sample ID: 820-2232-51

Date Collected: 10/12/21 13:27

Matrix: Solid

Date Received: 10/13/21 15:41

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	9753	10/18/21 14:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9941	10/20/21 18:05	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10032	10/20/21 15:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			9896	10/20/21 13:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9834	10/19/21 09:45	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			9827	10/19/21 18:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	9721	10/18/21 13:49	CA	XEN MID
Soluble	Analysis	300.0		1			9830	10/19/21 13:50	CH	XEN MID

Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Lubbock

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

Laboratory: Eurofins Xenco, 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

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

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 Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Lubbock

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-2232-1
SDG: AR17165

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
820-2232-1	BG-1 (0-0.5)	Solid	10/12/21 11:47	10/13/21 15:41
820-2232-3	BG-1 (1.5-2)	Solid	10/12/21 11:51	10/13/21 15:41
820-2232-4	BG-2 (0-0.5)	Solid	10/12/21 11:53	10/13/21 15:41
820-2232-6	BG-2 (1.5-2)	Solid	10/12/21 11:57	10/13/21 15:41
820-2232-7	HA1 (0-0.5)	Solid	10/12/21 11:59	10/13/21 15:41
820-2232-9	HA1 (1.5-2)	Solid	10/12/21 12:03	10/13/21 15:41
820-2232-10	HA2 (0-0.5)	Solid	10/12/21 12:05	10/13/21 15:41
820-2232-12	HA2 (1.5-2)	Solid	10/12/21 12:09	10/13/21 15:41
820-2232-13	HA3 (0-0.5)	Solid	10/12/21 12:11	10/13/21 15:41
820-2232-15	HA3 (1.5-2)	Solid	10/12/21 12:15	10/13/21 15:41
820-2232-17	HA3 (4.5-5)	Solid	10/12/21 12:19	10/13/21 15:41
820-2232-18	HA12 (0-0.5)	Solid	10/12/21 12:21	10/13/21 15:41
820-2232-20	HA12 (1.5-2)	Solid	10/12/21 12:25	10/13/21 15:41
820-2232-22	HA12 (4.5-5)	Solid	10/12/21 12:29	10/13/21 15:41
820-2232-23	HA8 (0-0.5)	Solid	10/12/21 12:31	10/13/21 15:41
820-2232-25	HA8 (1.5-2)	Solid	10/12/21 12:35	10/13/21 15:41
820-2232-26	HA9 (0-0.5)	Solid	10/12/21 12:37	10/13/21 15:41
820-2232-28	HA9 (1.5-2)	Solid	10/12/21 12:41	10/13/21 15:41
820-2232-29	HA6 (0-0.5)	Solid	10/12/21 12:43	10/13/21 15:41
820-2232-31	HA6 (1.5-2)	Solid	10/12/21 12:47	10/13/21 15:41
820-2232-32	HA6 (3.5-4)	Solid	10/12/21 12:49	10/13/21 15:41
820-2232-34	HA4 (0.5-1)	Solid	10/12/21 12:53	10/13/21 15:41
820-2232-35	HA4 (1.5-2)	Solid	10/12/21 12:55	10/13/21 15:41
820-2232-37	HA5 (0-0.5)	Solid	10/12/21 12:59	10/13/21 15:41
820-2232-39	HA5 (1.5-2)	Solid	10/12/21 13:03	10/13/21 15:41
820-2232-40	HA5 (3-3.5)	Solid	10/12/21 13:05	10/13/21 15:41
820-2232-42	HA7 (0.5-1)	Solid	10/12/21 13:09	10/13/21 15:41
820-2232-44	HA7 (3-3.5)	Solid	10/12/21 13:13	10/13/21 15:41
820-2232-45	HA10 (0-0.5)	Solid	10/12/21 13:15	10/13/21 15:41
820-2232-47	HA10 (1.5-2)	Solid	10/12/21 13:19	10/13/21 15:41
820-2232-48	HA10 (3-3.5)	Solid	10/12/21 13:21	10/13/21 15:41
820-2232-50	HA11 (0.5-1)	Solid	10/12/21 13:25	10/13/21 15:41
820-2232-51	HA11 (1.5-2)	Solid	10/12/21 13:27	10/13/21 15:41

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Loc: 820

Terracon

Laboratory: Xenco
Address: 6701 Aberdeen
Lubbock, Texas 79424

Office Location: Lubbock

Phone:

Project Manager: J. Guesnier

Contact: J. Guesnier 806-544-9276

Sample Name: J. Guesnier

SRS #: 104371424

Sample's Signature

CHAIN OF CUSTODY RECORD

LAB USE ONLY

DUE DATE:

TEMP OF COOLER

WHEN REMOVED (°C)

-14.0/-14.4

10.4

820-2232 Chain of Custody



10/21/2021

Project Number		Project Name		Lubby Connection Release		No. Type of Containers		ANALYSIS REQUESTED		LAB USE ONLY	
Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	4 oz Glass	40 ml VOA	250 ml Poly	5035 kit
S	10/12/2021	11:47		X	BG-1 (0-0.5)	0	0.5'	X	X	X	X
S	10/12/2021	11:49		X	BG-1 (0.5-1)	0.5'	1'	X	X	X	X
S	10/12/2021	11:51		X	BG-1 (1.5-2)	1.5'	2'	X	X	X	X
S	10/12/2021	11:53		X	BG-2 (0-0.5)	0	0.5'	X	X	X	X
S	10/12/2021	11:55		X	BG-2 (0.5-1)	0.5'	1'	X	X	X	X
S	10/12/2021	11:57		X	BG-2 (1.5-2)	1.5'	2'	X	X	X	X
S	10/12/2021	11:59		X	HA-1 (0-0.5)	0	0.5'	X	X	X	X
S	10/12/2021	12:01		X	HA-1 (0.5-1)	0.5'	1'	X	X	X	X
S	10/12/2021	12:03		X	HA-1 (1.5-2)	1.5'	2'	X	X	X	X
S	10/12/2021	12:05		X	HA-2 (0-0.5)	0	0.5'	X	X	X	X
S	10/12/2021	12:07		X	HA-2 (0.5-1)	0.5'	1'	X	X	X	X
S	10/12/2021	12:09		X	HA-3 (0-0.5)	0	0.5'	X	X	X	X
S	10/12/2021	12:11		X	HA-3 (0.5-1)	0.5'	1'	X	X	X	X
S	10/12/2021	12:13		X	HA-3 (1.5-2)	1.5'	2'	X	X	X	X
S	10/12/2021	12:15		X	HA-3 (3.5-4)	3.5'	4'	X	X	X	X
S	10/12/2021	12:17		X	HA-3 (4.5-5)	4.5'	5'	X	X	X	X
S	10/12/2021	12:19		X	HA-12 (0-0.5)	0	0.5'	X	X	X	X
S	10/12/2021	12:21		X	HA-12 (0.5-1)	0.5'	1'	X	X	X	X
S	10/12/2021	12:23		X	HA-12 (1.5-2)	1.5'	2'	X	X	X	X
S	10/12/2021	12:25		X	HA-12 (3.5-4)	3.5'	4'	X	X	X	X
S	10/12/2021	12:27		X	HA-12 (4.5-5)	4.5'	5'	X	X	X	X
S	10/12/2021	12:29		X							

TURNAROUND TIME		Normal		48-Hour Rush		24-Hour Rush		TRRP Laboratory Review Checklist		Yes		No	
Requested by (Signature)	Date	Time	Requested by (Signature)	Date	Time	Requested by (Signature)	Date	Time	Notes: Client e-mail results to:	Notes: Client e-mail results to:	Notes: Client e-mail results to:	Notes: Client e-mail results to:	
<i>[Signature]</i>	10-12-21	15:00	<i>[Signature]</i>	10-12-21	15:00	<i>[Signature]</i>	10-12-21	15:00	brett.dennis@terracon.com	erin.loyd@terracon.com	jrguesnier@terracon.com		

Notes: Client e-mail results to:

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

Responsive ■ Resourceful ■ Reliable

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Terracon

Office Location: LubbockLaboratory: Xenco
Address: 6701 Aberdeen
Lubbock, Texas 79424Project Manager: J. Guesnier
Sampler's Name: J. GuesnierPhone: J. Guesnier 806-544-9276
Contact: SRS #: J. Guesnier
Sampler's Signature: *J. Guesnier*

CHAIN OF CUSTODY RECORD

ANALYSIS REQUESTED

LAB USE ONLY
DUE DATE:
TEMP OF COOLER
WHEN RECEIVED (°C)-140-14.04
104

Page 2 of 3

Project Number: AR17165			Project Name: Libbey Connection Release			No. Type of Containers			ANALYSIS REQUESTED			LAB USE ONLY				
Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	4 oz Glass	40 ml VOA	250 ml Poly	5035 kit	Chloride (EPA Method 300)	TPH Extended 8015	BTEX (EPA Method 8021B)	Hold	Lab Sample ID
S	10/12/2021	12:31	X		HA-8 (0-0.5)	0	0.5'	X				X	X	X		23
S	10/12/2021	12:33	X		HA-8 (0.5-1)	0.5'	1'	X				X	X	X		24
S	10/12/2021	12:35	X		HA-8 (1.5-2)	1.5'	2'	X				X	X	X		25
S	10/12/2021	12:37	X		HA-9 (0-0.5)	0	0.5'	X				X	X	X		26
S	10/12/2021	12:39	X		HA-9 (0.5-1)	0.5'	1'	X				X	X	X		27
S	10/12/2021	12:41	X		HA-9 (1.5-2)	1.5'	2'	X				X	X	X		28
S	10/12/2021	12:43	X		HA-6 (0-0.5)	0	0.5'	X				X	X	X		29
S	10/12/2021	12:45	X		HA-6 (0.5-1)	0.5'	1'	X				X	X	X		30
S	10/12/2021	12:47	X		HA-6 (1.5-2)	1.5'	2'	X				X	X	X		31
S	10/12/2021	12:49	X		HA-6 (3.5-4)	3.5'	4'	X				X	X	X		32
S	10/12/2021	12:51	X		HA-4 (0-0.5)	0	0.5'	X				X	X	X		33
S	10/12/2021	12:53	X		HA-4 (0.5-1)	0.5'	1'	X				X	X	X		34
S	10/12/2021	12:55	X		HA-4 (1.5-2)	1.5'	2'	X				X	X	X		35
S	10/12/2021	12:57	X		HA-4 (3.3-5)	3'	3.5'	X				X	X	X		36
S	10/12/2021	12:59	X		HA-5 (0-0.5)	0	0.5'	X				X	X	X		37
S	10/12/2021	13:01	X		HA-5 (0.5-1)	0.5'	1'	X				X	X	X		38
S	10/12/2021	13:03	X		HA-5 (1.5-2)	1.5'	2'	X				X	X	X		39
S	10/12/2021	13:05	X		HA-5 (3.3-5)	3'	3.5'	X				X	X	X		40
S	10/12/2021	13:07	X		HA-7 (0-0.5)	0	0.5'	X				X	X	X		41
S	10/12/2021	13:09	X		HA-7 (0.5-1)	0.5'	1'	X				X	X	X		42
S	10/12/2021	13:11	X		HA-7 (1.5-2)	1.5'	2'	X				X	X	X		43
S	10/12/2021	13:13	X		HA-7 (3.3-5)	3'	3.5'	X				X	X	X		44

TURNAROUND TIME: ☒ Normal ☐ 48-Hour Rush ☐ 24-Hour Rush TRRP Laboratory Review Checklist: ☐ Yes ☐ NoRevised by (Signature): *J. Guesnier* Date: 10-13-21 Time: 15:00 Received by (Signature): *J. Guesnier* Date: 10-13-21 Time: 15:00Revised by (Signature): *J. Guesnier* Date: 10-13-21 Time: 15:00 Received by (Signature): *J. Guesnier* Date: 10-13-21 Time: 15:00Revised by (Signature): *J. Guesnier* Date: 10-13-21 Time: 15:00 Received by (Signature): *J. Guesnier* Date: 10-13-21 Time: 15:00

Matrix: W: Water S: Soil L: Liquid A: Air Bag C: Container Size S: Sample

Container: VOA: 40 ml Vial 250 ml - 200 ml Vial 750 - 1000 ml Vial

Lubbock Office: 5827 50th Street, Suite 1 Lubbock, Texas 79424 806-300-0140

Responsive Resourceful Reliable

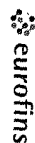
NOTES: Client: e-mail results to: brett.dennis@terracon.com
erin.loyd@terracon.com
jrguesnier@terracon.com

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Eurofins Xenco, 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)		Sampler	Lab PM:	Carrier Tracking No(s)	COC No.									
Client Contact:			Kramer Jessica		820-2294 1									
Shipping/Receiving	Phone		E-Mail: Jessica.Kramer@eurofinsllc.com	State of Origin: New Mexico	Page 1 of 6									
Company: Eurofins Xenco	Address: 1211 W Florida Ave.	Due Date Requested: 10/19/2021	Accreditations Required (See note): NELAP - Texas	Job #:	820-2232-1									
City: Midland	State, Zip: TX, 79701	FAT Requested (days):	Analysis Requested											
Phone: 432-704-5440(Tel)	PO #:													
Email: WFO #:														
Project Name: New Mexico Soils	Project #: 82000268													
Site: SSOV#:														
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=Soil, O=Organic, B=BTX, L=Leach, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8021B/5035FP_Calc (MOD) BTEX	Total BTEX_GCV	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	Total Number of containers	Special Instructions/Note:
BG-1 (0-0-5) (820-2232-1)		10/12/21	11:47		Solid		X	X	X	X	X	X	1	
BG-1 (0-5-1) (820-2232-2)		10/12/21	11:49		Solid		X	X	X	X	X	X	1	
BG-1 (1-5-2) (820-2232-3)		10/12/21	11:51		Solid		X	X	X	X	X	X	1	
BG-2 (0-0-5) (820-2232-4)		10/12/21	11:53		Solid		X	X	X	X	X	X	1	
BG-2 (0-5-1) (820-2232-5)		10/12/21	11:55		Solid		X	X	X	X	X	X	1	
BG-2 (1-5-2) (820-2232-6)		10/12/21	11:57		Solid		X	X	X	X	X	X	1	
HA1 (0-0-5) (820-2232-7)		10/12/21	11:59		Solid		X	X	X	X	X	X	1	
HA1 (0-5-1) (820-2232-8)		10/12/21	12:01		Solid		X	X	X	X	X	X	1	
HA1 (1-5-2) (820-2232-9)		10/12/21	12:03		Solid		X	X	X	X	X	X	1	
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our 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 Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.														
Possible Hazard Identification														
Unconfirmed														
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2														
Empty Kit Relinquished by: Date: Time: Method of Shipment:														
Relinquished by: Date/Time: Company: Received by: Date/Time: Company:														
Relinquished by: Date/Time: Company: Received by: Date/Time: Company:														
Custody Seals Intact: Custody Seal No: Cooler Temperature(s) °C and Other Remarks: 24/2.5														

Eurofins Xenco, Lubbock

6701 Aberdeen Ave Suite 8
Lubbock, TX 79424
Phone. 806-794-1296

Chain of Custody Record



**Environment Testing
America**

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Eurofins Xenco, Lubbock

6701 Aberdeen Ave Suite 8
Lubbock TX 79424
Phone 806-794-1296

Chain of Custody Record



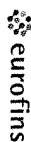
Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PM:	Carrier Tracking No(s):	COC No:																																																																																																																																												
Client Contact:	Phone:		Kramer Jessica		820-2234 3																																																																																																																																												
Shipping/Receiving			E-Mail: jessica.kramer@eurofins.com	State of Origin	Page: 3 of 6																																																																																																																																												
Company:			Accreditations Required (See note): NELAP - Texas	New Mexico	Job #: 820-2232-1																																																																																																																																												
Address:	Due Date Requested:																																																																																																																																																
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New Mexico Soils	82000268																																																																																																																																																
Site:	SSOW#:																																																																																																																																																
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Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Weigher, Solid, On-trail, A=Al)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8021B/5035FP_Calc (MOD) BTEX	Total BTEX_GCV	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	Total Number of containers	Special Instructions/Note:																																																																																																																																				
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Possible Hazard Identification Unconfirmed Deliverable Requested I, II, III, IV Other (specify) _____ Primary Deliverable Rank: 2 Empty Kit Relinquished by _____ Date _____ Time _____ Relinquished by _____ Date/Time _____ Company _____ Relinquished by _____ Date/Time _____ Company _____ Relinquished by _____ Date/Time _____ Company _____ Custody Seals Intact: ☐ Yes ☐ No Custody Seal No _____ Cooler Temperature(s) °C and Other Remarks _____																																																																																																																																																	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months Special Instructions/QC Requirements _____ Method of Shipment _____ Date/Time _____ Company _____ Date/Time _____ Company _____ Date/Time _____ Company _____																																																																																																																																																	

Eurofins Xenco, 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)				Sampler		Lab PM:		Carrier Tracking No(s)		COC No:													
Client Contact: Shipping/Receiving				Phone		Kramer, Jessica				820-2294-4													
Company: Eurofins Xenco						E-Mail: jessica.kramer@eurofinsnet.com		State of Origin: New Mexico		Page 4 of 6													
Address: 1211 W Florida Ave.				Due Date Requested: 10/19/2021		Accreditations Required (See note): NELAP - Texas		Job #:		820-2232-1													
City: Midland				TAT Requested (days)		Analysis Requested																	
State Zip: TX, 79701																							
Phone: 432-704-5440(Tel)				PO #:																			
Email:				WO #:																			
Project Name: New Mexico Soils				Project #: 82000268																			
Site:				SSOW#:																			
Sample Identification - Client ID (Lab ID)				Sample Date	Sample Time	Sample Type (G=comp, BTR=Tissue, A=Air)	Matrix (W=water, S=solid, O=volatile)	Field Filtered Sample (Yes or No)				Perform MS/MSD (Yes or No)				Total Number of containers				Special Instructions/Note:			
HA9 (1 5-2) (820-2232-28)				10/12/21	12 41	Mountain	Solid	X	X	X	X	X	X	X	X	X	X	X	X	X	1		
HA6 (0-0.5) (820-2232-29)				10/12/21	12 43	Mountain	Solid	X	X	X	X	X	X	X	X	X	X	X	X	X	1		
HA6 (0 5-1) (820-2232-30)				10/12/21	12 45	Mountain	Solid	X	X	X	X	X	X	X	X	X	X	X	X	X	1		
HA6 (1 5-2) (820-2232-31)				10/12/21	12 47	Mountain	Solid	X	X	X	X	X	X	X	X	X	X	X	X	X	1		
HA6 (3 5-4) (820-2232-32)				10/12/21	12 49	Mountain	Solid	X	X	X	X	X	X	X	X	X	X	X	X	X	1		
HA4 (0-0 5) (820-2232-33)				10/12/21	12 51	Mountain	Solid	X	X	X	X	X	X	X	X	X	X	X	X	X	1		
HA4 (0 5-1) (820-2232-34)				10/12/21	12 53	Mountain	Solid	X	X	X	X	X	X	X	X	X	X	X	X	X	1		
HA4 (1 5-2) (820-2232-35)				10/12/21	12 55	Mountain	Solid	X	X	X	X	X	X	X	X	X	X	X	X	X	1		
HA4 (3-3 5) (820-2232-36)				10/12/21	12 57	Mountain	Solid	X	X	X	X	X	X	X	X	X	X	X	X	X	1		

Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon our 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/testing/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.

Possible Hazard Identification

Unclassified _____
Deliverable Requested I II III IV Other (Specify) _____ Primary Deliverable Rank. 2 _____
Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____
Relinquished by: _____ Date/Time: _____ Company: _____ Received by: _____ Date/Time: _____ Company: _____
Relinquished by: _____ Date/Time: _____ Company: _____ Received by: _____ Date/Time: _____ Company: _____
Cooler Temperature(s) °C and Other Remarks: _____

Custody Seals Intact: _____ Custody Seal No _____
Δ Yes Δ No

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Special Instructions/QC Requirements: _____

Eurofins Xenco, Lubbock

6701 Aberdeen Ave Suite 8
Lubbock, TX 79424
Phone 806-794-1296

Chain of Custody Record



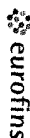
Environment Testing America

[illegible]

Eurofins Xenco, 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)				Sampler		Lab PM: Krammer Jessica		Carrier Tracking No(s)		COC No: 820-2294-6	
Client Contact: Shipping/Receiving				Phone:		E-Mail: Jessica.Krammer@eurofinsllc.com		State of Origin: New Mexico		Page: Page 6 of 6	
Company: Eurofins Xenco				Address: 1211 W Florida Ave.		Due Date Requested: 10/19/2021		Accreditations Required (See note): NELAP - Texas		Job #: 820-2292-1	
City: Midland				State, Zip: TX, 79701		PO #: 432-704-5440 (Tel)		WFO #:		Project Name: New Mexico Soils	
Email:				Project #:		SSOW#:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)	
Sample Identification - Client ID (Lab ID)				Sample Date		Sample Time		Sample Type (G=comp, G=grab)		Matrix (W=water, S=solid, O=soil, B=trans, A=air)	
HA10 (0 5-1) (820-2232-46)				10/12/21		13 17		Solid		X	
HA10 (1 5-2) (820-2232-47)				10/12/21		13 19		Solid		X	
HA10 (3-3 5) (820-2232-48)				10/12/21		13 21		Solid		X	
HA11 (0-0 5) (820-2232-49)				10/12/21		13 23		Solid		X	
HA11 (0 5-1) (820-2232-50)				10/12/21		13 25		Solid		X	
HA11 (1 5-2) (820-2232-51)				10/12/21		13 27		Solid		X	
HA11 (3-3 5) (820-2232-52)				10/12/21		13 29		Solid		X	
Total Number of containers				1		1		1		1	
Special Instructions/Note:				Total Number of containers		1		1		1	
Preservation Codes				A - HCL		M - Hexane		B - NaOH		N - None	
C - Zn Acetate				D - Nitric Acid		E - NaHSO4		F - MeOH		G - Amnitor	
H - Ascorbic Acid				I - Ice		J - DI Water		K - EDTA		L - EDTA	
Other:				W - pH 4.5		Z - other (specify)		M - Hexane		N - None	
O - AsNaO2				P - Na2CO3		Q - Na2SO3		R - Na2S2O3		S - H2SO4	
T - TSP Dodecylhydrate				U - Acetone		V - MCAA		W - pH 4.5		Z - other (specify)	
Note: Since laboratory accreditations are subject to change Eurofins Xenco 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 Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.				Possible Hazard Identification		Unconfirmed		Deliverable Requested I, II, III, IV Other (Specify)		Primary Deliverable Rank: 2	
Empty Kit Relinquished by:				Date		Time		Method of Shipment:		Archive For: Months	
Relinquished by: [Signature]				Date/Time: 10/15/21 17:00		Company:		Received by: [Signature]		Date/Time: 10/14/21 10:12	
Relinquished by:				Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by:				Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact:				Custody Seal No		Cooler Temperature(s) °C and Other Remarks:		2.4/25			

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 820-2232-1

SDG Number: AR17165

Login Number: 2232**List Number: 1****Creator: Taylor, Holly****List Source: Eurofins Xenco, 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: 820-2232-1

SDG Number: AR17165

Login Number: 2232**List Number: 2****Creator: Kramer, Jessica****List Source: Eurofins Xenco, Midland****List Creation: 10/14/21 10:16 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	2.4/2.5
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	



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 820-3581-1
Client Project/Site: Libbey Site

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:
3/14/2022 9:07:40 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: Libbey Site

Laboratory Job ID: 820-3581-1

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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

3/14/2022 9:07:40 AM

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Site

Laboratory Job ID: 820-3581-1

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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Site

Job ID: 820-3581-1

Qualifiers

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.
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: Libbey Site

Job ID: 820-3581-1

Job ID: 820-3581-1**Laboratory: Eurofins Lubbock****Narrative****Job Narrative
820-3581-1****Receipt**

The samples were received on 3/3/2022 3:30 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 12.8°C

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: Libbey Site

Job ID: 820-3581-1

Client Sample ID: HA-1.1 (0-.5')

Lab Sample ID: 820-3581-1

Date Collected: 03/01/22 13:45

Matrix: Soil

Date Received: 03/03/22 15:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4780		10.2		mg/Kg		03/11/22 10:05	03/11/22 12:16	1

Client Sample ID: HA-1.1 (.5'-1')

Lab Sample ID: 820-3581-2

Date Collected: 03/01/22 13:50

Matrix: Soil

Date Received: 03/03/22 15:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	864		9.92		mg/Kg		03/11/22 10:05	03/11/22 14:17	1

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

Lab Sample ID: 820-3581-3

Date Collected: 03/01/22 13:55

Matrix: Soil

Date Received: 03/03/22 15:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.9		10.2		mg/Kg		03/11/22 10:05	03/11/22 14:28	1

Client Sample ID: HA-1.1 (3.5'-4')

Lab Sample ID: 820-3581-4

Date Collected: 03/01/22 14:00

Matrix: Soil

Date Received: 03/03/22 15:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.4		10.1		mg/Kg		03/11/22 10:05	03/11/22 14:39	1

Client Sample ID: HA-2.1 (0-.5')

Lab Sample ID: 820-3581-5

Date Collected: 03/01/22 14:05

Matrix: Soil

Date Received: 03/03/22 15:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4720		10.1		mg/Kg		03/11/22 10:05	03/11/22 15:12	1

Client Sample ID: HA-2.1 (.5'-1')

Lab Sample ID: 820-3581-6

Date Collected: 03/01/22 14:10

Matrix: Soil

Date Received: 03/03/22 15:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3610		10.0		mg/Kg		03/11/22 10:05	03/11/22 15:23	1

Client Sample ID: HA-2.1 (1.5'-2')

Lab Sample ID: 820-3581-7

Date Collected: 03/01/22 14:15

Matrix: Soil

Date Received: 03/03/22 15:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2050		10.0		mg/Kg		03/11/22 10:05	03/11/22 15:34	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Site

Job ID: 820-3581-1

Client Sample ID: HA-3.1 (0-.5')

Lab Sample ID: 820-3581-8

Date Collected: 03/01/22 14:20

Matrix: Soil

Date Received: 03/03/22 15:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4230		10.2		mg/Kg		03/11/22 10:05	03/11/22 15:45	1

Client Sample ID: HA-3.1 (.5'-1')

Lab Sample ID: 820-3581-9

Date Collected: 03/01/22 14:25

Matrix: Soil

Date Received: 03/03/22 15:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2730		9.96		mg/Kg		03/11/22 10:05	03/11/22 15:56	1

Client Sample ID: HA-3.1 (1.5'-2')

Lab Sample ID: 820-3581-10

Date Collected: 03/01/22 14:30

Matrix: Soil

Date Received: 03/03/22 15:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2440		9.94		mg/Kg		03/11/22 10:05	03/11/22 16:07	1

Client Sample ID: HA-6.1 (0-.5')

Lab Sample ID: 820-3581-11

Date Collected: 03/01/22 14:35

Matrix: Soil

Date Received: 03/03/22 15:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	182		10.2		mg/Kg		03/11/22 10:05	03/11/22 20:54	1

Client Sample ID: HA-6.1 (.5'-1')

Lab Sample ID: 820-3581-12

Date Collected: 03/01/22 14:40

Matrix: Soil

Date Received: 03/03/22 15:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.0		10.2		mg/Kg		03/11/22 10:05	03/11/22 22:00	1

Client Sample ID: HA-6.1 (1.5'-2')

Lab Sample ID: 820-3581-13

Date Collected: 03/01/22 14:45

Matrix: Soil

Date Received: 03/03/22 15:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg		03/11/22 10:05	03/11/22 22:11	1

Client Sample ID: HA-8.1 (0-.5')

Lab Sample ID: 820-3581-14

Date Collected: 03/01/22 14:50

Matrix: Soil

Date Received: 03/03/22 15:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.1		9.94		mg/Kg		03/11/22 10:05	03/11/22 22:22	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Site

Job ID: 820-3581-1

Client Sample ID: HA-8.1 (.5'-1')

Lab Sample ID: 820-3581-15

Date Collected: 03/01/22 14:55

Matrix: Soil

Date Received: 03/03/22 15:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.0		9.84		mg/Kg		03/11/22 10:05	03/11/22 22:33	1

Client Sample ID: HA-8.1 (1.5'-2')

Lab Sample ID: 820-3581-16

Date Collected: 03/01/22 15:00

Matrix: Soil

Date Received: 03/03/22 15:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.82	U	9.82		mg/Kg		03/11/22 10:05	03/11/22 22:44	1

Client Sample ID: HA-7.1 (0-.5')

Lab Sample ID: 820-3581-17

Date Collected: 03/01/22 15:05

Matrix: Soil

Date Received: 03/03/22 15:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	990		9.86		mg/Kg		03/11/22 10:05	03/11/22 22:55	1

Client Sample ID: HA-7.1 (.5'-1')

Lab Sample ID: 820-3581-18

Date Collected: 03/01/22 15:10

Matrix: Soil

Date Received: 03/03/22 15:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1700		10.1		mg/Kg		03/11/22 10:05	03/11/22 23:06	1

Client Sample ID: HA-7.1 (1.5'-2')

Lab Sample ID: 820-3581-19

Date Collected: 03/01/22 15:15

Matrix: Soil

Date Received: 03/03/22 15:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	687		10.1		mg/Kg		03/11/22 10:05	03/12/22 00:12	1

Client Sample ID: HA-7.1 (3.5'-4')

Lab Sample ID: 820-3581-20

Date Collected: 03/01/22 15:20

Matrix: Soil

Date Received: 03/03/22 15:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	119		9.96		mg/Kg		03/11/22 10:05	03/12/22 00:45	1

Client Sample ID: HA-10.1 (0-.5')

Lab Sample ID: 820-3581-21

Date Collected: 03/01/22 15:25

Matrix: Soil

Date Received: 03/03/22 15:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3430		9.94		mg/Kg		03/11/22 10:05	03/12/22 00:56	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Site

Job ID: 820-3581-1

Client Sample ID: HA-10.1 (.5'-1')

Lab Sample ID: 820-3581-22

Date Collected: 03/01/22 15:30

Matrix: Soil

Date Received: 03/03/22 15:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	582		9.88		mg/Kg		03/11/22 10:05	03/12/22 01:07	1

Client Sample ID: HA-10.1 (1.5'-2')

Lab Sample ID: 820-3581-23

Date Collected: 03/01/22 15:35

Matrix: Soil

Date Received: 03/03/22 15:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.2		9.92		mg/Kg		03/11/22 10:05	03/12/22 01:18	1

Client Sample ID: HA-10.1 (3.5'-4')

Lab Sample ID: 820-3581-24

Date Collected: 03/01/22 15:40

Matrix: Soil

Date Received: 03/03/22 15:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	400		9.84		mg/Kg		03/11/22 10:05	03/12/22 01:51	1

Client Sample ID: HA-5.1 (0-.5')

Lab Sample ID: 820-3581-25

Date Collected: 03/01/22 15:45

Matrix: Soil

Date Received: 03/03/22 15:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2700		10.1		mg/Kg		03/11/22 10:05	03/12/22 02:02	1

Client Sample ID: HA-5.1 (.5'-1')

Lab Sample ID: 820-3581-26

Date Collected: 03/01/22 15:50

Matrix: Soil

Date Received: 03/03/22 15:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1010		10.0		mg/Kg		03/11/22 10:05	03/12/22 02:13	1

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

Lab Sample ID: 820-3581-27

Date Collected: 03/01/22 15:55

Matrix: Soil

Date Received: 03/03/22 15:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1100		10.2		mg/Kg		03/11/22 10:05	03/12/22 02:24	1

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

Lab Sample ID: 820-3581-28

Date Collected: 03/01/22 16:00

Matrix: Soil

Date Received: 03/03/22 15:30

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6710		101		mg/Kg		03/11/22 10:05	03/12/22 02:35	10

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Site

Job ID: 820-3581-1

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

Lab Sample ID: 820-3581-29

Date Collected: 03/01/22 16:05

Matrix: Soil

Date Received: 03/03/22 15:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1580		10.2		mg/Kg		03/11/22 10:05	03/12/22 02:46	1

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

Lab Sample ID: 820-3581-30

Date Collected: 03/01/22 16:10

Matrix: Soil

Date Received: 03/03/22 15:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	943		9.96		mg/Kg		03/11/22 10:05	03/12/22 02:57	1

Client Sample ID: HA-13 (3.5'-4')

Lab Sample ID: 820-3581-31

Date Collected: 03/01/22 16:15

Matrix: Soil

Date Received: 03/03/22 15:30

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.8		9.80		mg/Kg		03/11/22 10:05	03/12/22 03:30	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Site

Job ID: 820-3581-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-44635/1-A

Matrix: Solid

Analysis Batch: 44629

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 44635

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg		03/11/22 10:05	03/11/22 11:21	1

Lab Sample ID: MB 860-44635/28-A

Matrix: Solid

Analysis Batch: 44629

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 44635

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg		03/11/22 10:05	03/11/22 23:39	1

Lab Sample ID: LCS 860-44635/29-A

Matrix: Solid

Analysis Batch: 44629

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 44635

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100	95.09		mg/Kg		95	80 - 120

Lab Sample ID: LCS 860-44635/2-A

Matrix: Solid

Analysis Batch: 44629

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 44635

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100	95.10		mg/Kg		95	80 - 120

Lab Sample ID: LCSD 860-44635/30-A

Matrix: Solid

Analysis Batch: 44629

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 44635

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	100	95.01		mg/Kg		95	80 - 120	0	20

Lab Sample ID: LCSD 860-44635/3-A

Matrix: Solid

Analysis Batch: 44629

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 44635

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	100	95.10		mg/Kg		95	80 - 120	0	20

Lab Sample ID: 820-3581-1 MS

Matrix: Soil

Analysis Batch: 44629

Client Sample ID: HA-1.1 (0-.5')

Prep Type: Total/NA

Prep Batch: 44635

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	4780		99.6	4719	4	mg/Kg		-57	80 - 120

Lab Sample ID: 820-3581-1 MSD

Matrix: Soil

Analysis Batch: 44629

Client Sample ID: HA-1.1 (0-.5')

Prep Type: Total/NA

Prep Batch: 44635

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	4780		99.4	4705	4	mg/Kg		-71	80 - 120	0	20

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Site

Job ID: 820-3581-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 820-3581-10 MS

Matrix: Soil

Analysis Batch: 44629

Client Sample ID: HA-3.1 (1.5'-2')

Prep Type: Total/NA

Prep Batch: 44635

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2440		100	2509	4	mg/Kg		72	80 - 120

Lab Sample ID: 820-3581-10 MSD

Matrix: Soil

Analysis Batch: 44629

Client Sample ID: HA-3.1 (1.5'-2')

Prep Type: Total/NA

Prep Batch: 44635

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	2440		100	2517	4	mg/Kg		80	80 - 120	0	20

Lab Sample ID: 820-3581-19 MS

Matrix: Soil

Analysis Batch: 44629

Client Sample ID: HA-7.1 (1.5'-2')

Prep Type: Total/NA

Prep Batch: 44635

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	687		102	791.1	4	mg/Kg		102	80 - 120

Lab Sample ID: 820-3581-19 MSD

Matrix: Soil

Analysis Batch: 44629

Client Sample ID: HA-7.1 (1.5'-2')

Prep Type: Total/NA

Prep Batch: 44635

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	687		107	790.0	4	mg/Kg		96	80 - 120	0	20

Lab Sample ID: 820-3581-30 MS

Matrix: Soil

Analysis Batch: 44629

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

Prep Type: Total/NA

Prep Batch: 44635

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	943		98.2	1016	4	mg/Kg		74	80 - 120

Lab Sample ID: 820-3581-30 MSD

Matrix: Soil

Analysis Batch: 44629

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

Prep Type: Total/NA

Prep Batch: 44635

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	943		98.0	1014	4	mg/Kg		72	80 - 120	0	20

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Site

Job ID: 820-3581-1

HPLC/IC

Analysis Batch: 44629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3581-1	HA-1.1 (0-.5')	Total/NA	Soil	300.0	44635
820-3581-2	HA-1.1 (.5'-1')	Total/NA	Soil	300.0	44635
820-3581-3	HA-1 (1.5'-2')	Total/NA	Soil	300.0	44635
820-3581-4	HA-1.1 (3.5'-4')	Total/NA	Soil	300.0	44635
820-3581-5	HA-2.1 (0-.5')	Total/NA	Soil	300.0	44635
820-3581-6	HA-2.1 (.5'-1')	Total/NA	Soil	300.0	44635
820-3581-7	HA-2.1 (1.5'-2')	Total/NA	Soil	300.0	44635
820-3581-8	HA-3.1 (0-.5')	Total/NA	Soil	300.0	44635
820-3581-9	HA-3.1 (.5'-1')	Total/NA	Soil	300.0	44635
820-3581-10	HA-3.1 (1.5'-2')	Total/NA	Soil	300.0	44635
820-3581-11	HA-6.1 (0-.5')	Total/NA	Soil	300.0	44635
820-3581-12	HA-6.1 (.5'-1')	Total/NA	Soil	300.0	44635
820-3581-13	HA-6.1 (1.5'-2')	Total/NA	Soil	300.0	44635
820-3581-14	HA-8.1 (0-.5')	Total/NA	Soil	300.0	44635
820-3581-15	HA-8.1 (.5'-1')	Total/NA	Soil	300.0	44635
820-3581-16	HA-8.1 (1.5'-2')	Total/NA	Soil	300.0	44635
820-3581-17	HA-7.1 (0-.5')	Total/NA	Soil	300.0	44635
820-3581-18	HA-7.1 (.5'-1')	Total/NA	Soil	300.0	44635
820-3581-19	HA-7.1 (1.5'-2')	Total/NA	Soil	300.0	44635
820-3581-20	HA-7.1 (3.5'-4')	Total/NA	Soil	300.0	44635
820-3581-21	HA-10.1 (0-.5')	Total/NA	Soil	300.0	44635
820-3581-22	HA-10.1 (.5'-1')	Total/NA	Soil	300.0	44635
820-3581-23	HA-10.1 (1.5'-2')	Total/NA	Soil	300.0	44635
820-3581-24	HA-10.1 (3.5'-4')	Total/NA	Soil	300.0	44635
820-3581-25	HA-5.1 (0-.5')	Total/NA	Soil	300.0	44635
820-3581-26	HA-5.1 (.5'-1')	Total/NA	Soil	300.0	44635
820-3581-27	HA-5 (1.5'-2')	Total/NA	Soil	300.0	44635
820-3581-28 - DL	HA-13 (0-.5')	Total/NA	Soil	300.0	44635
820-3581-29	HA-13 (.5'-1')	Total/NA	Soil	300.0	44635
820-3581-30	HA-13 (1.5'-2')	Total/NA	Soil	300.0	44635
820-3581-31	HA-13 (3.5'-4')	Total/NA	Soil	300.0	44635
MB 860-44635/1-A	Method Blank	Total/NA	Solid	300.0	44635
MB 860-44635/28-A	Method Blank	Total/NA	Solid	300.0	44635
LCS 860-44635/29-A	Lab Control Sample	Total/NA	Solid	300.0	44635
LCS 860-44635/2-A	Lab Control Sample	Total/NA	Solid	300.0	44635
LCSD 860-44635/30-A	Lab Control Sample Dup	Total/NA	Solid	300.0	44635
LCSD 860-44635/3-A	Lab Control Sample Dup	Total/NA	Solid	300.0	44635
820-3581-1 MS	HA-1.1 (0-.5')	Total/NA	Soil	300.0	44635
820-3581-1 MSD	HA-1.1 (0-.5')	Total/NA	Soil	300.0	44635
820-3581-10 MS	HA-3.1 (1.5'-2')	Total/NA	Soil	300.0	44635
820-3581-10 MSD	HA-3.1 (1.5'-2')	Total/NA	Soil	300.0	44635
820-3581-19 MS	HA-7.1 (1.5'-2')	Total/NA	Soil	300.0	44635
820-3581-19 MSD	HA-7.1 (1.5'-2')	Total/NA	Soil	300.0	44635
820-3581-30 MS	HA-13 (1.5'-2')	Total/NA	Soil	300.0	44635
820-3581-30 MSD	HA-13 (1.5'-2')	Total/NA	Soil	300.0	44635

Prep Batch: 44635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3581-1	HA-1.1 (0-.5')	Total/NA	Soil	300_Prep	
820-3581-2	HA-1.1 (.5'-1')	Total/NA	Soil	300_Prep	
820-3581-3	HA-1 (1.5'-2')	Total/NA	Soil	300_Prep	

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Site

Job ID: 820-3581-1

HPLC/IC (Continued)

Prep Batch: 44635 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3581-4	HA-1.1 (3.5'-4')	Total/NA	Soil	300_Prep	
820-3581-5	HA-2.1 (0-.5')	Total/NA	Soil	300_Prep	
820-3581-6	HA-2.1 (.5'-1')	Total/NA	Soil	300_Prep	
820-3581-7	HA-2.1 (1.5'-2')	Total/NA	Soil	300_Prep	
820-3581-8	HA-3.1 (0-.5')	Total/NA	Soil	300_Prep	
820-3581-9	HA-3.1 (.5'-1')	Total/NA	Soil	300_Prep	
820-3581-10	HA-3.1 (1.5'-2')	Total/NA	Soil	300_Prep	
820-3581-11	HA-6.1 (0-.5')	Total/NA	Soil	300_Prep	
820-3581-12	HA-6.1 (.5'-1')	Total/NA	Soil	300_Prep	
820-3581-13	HA-6.1 (1.5'-2')	Total/NA	Soil	300_Prep	
820-3581-14	HA-8.1 (0-.5')	Total/NA	Soil	300_Prep	
820-3581-15	HA-8.1 (.5'-1')	Total/NA	Soil	300_Prep	
820-3581-16	HA-8.1 (1.5'-2')	Total/NA	Soil	300_Prep	
820-3581-17	HA-7.1 (0-.5')	Total/NA	Soil	300_Prep	
820-3581-18	HA-7.1 (.5'-1')	Total/NA	Soil	300_Prep	
820-3581-19	HA-7.1 (1.5'-2')	Total/NA	Soil	300_Prep	
820-3581-20	HA-7.1 (3.5'-4')	Total/NA	Soil	300_Prep	
820-3581-21	HA-10.1 (0-.5')	Total/NA	Soil	300_Prep	
820-3581-22	HA-10.1 (.5'-1')	Total/NA	Soil	300_Prep	
820-3581-23	HA-10.1 (1.5'-2')	Total/NA	Soil	300_Prep	
820-3581-24	HA-10.1 (3.5'-4')	Total/NA	Soil	300_Prep	
820-3581-25	HA-5.1 (0-.5')	Total/NA	Soil	300_Prep	
820-3581-26	HA-5.1 (.5'-1')	Total/NA	Soil	300_Prep	
820-3581-27	HA-5 (1.5'-2')	Total/NA	Soil	300_Prep	
820-3581-28 - DL	HA-13 (0-.5')	Total/NA	Soil	300_Prep	
820-3581-29	HA-13 (.5'-1')	Total/NA	Soil	300_Prep	
820-3581-30	HA-13 (1.5'-2')	Total/NA	Soil	300_Prep	
820-3581-31	HA-13 (3.5'-4')	Total/NA	Soil	300_Prep	
MB 860-44635/1-A	Method Blank	Total/NA	Solid	300_Prep	
MB 860-44635/28-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-44635/29-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCS 860-44635/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-44635/30-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
LCSD 860-44635/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
820-3581-1 MS	HA-1.1 (0-.5')	Total/NA	Soil	300_Prep	
820-3581-1 MSD	HA-1.1 (0-.5')	Total/NA	Soil	300_Prep	
820-3581-10 MS	HA-3.1 (1.5'-2')	Total/NA	Soil	300_Prep	
820-3581-10 MSD	HA-3.1 (1.5'-2')	Total/NA	Soil	300_Prep	
820-3581-19 MS	HA-7.1 (1.5'-2')	Total/NA	Soil	300_Prep	
820-3581-19 MSD	HA-7.1 (1.5'-2')	Total/NA	Soil	300_Prep	
820-3581-30 MS	HA-13 (1.5'-2')	Total/NA	Soil	300_Prep	
820-3581-30 MSD	HA-13 (1.5'-2')	Total/NA	Soil	300_Prep	

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Site

Job ID: 820-3581-1

Client Sample ID: HA-1.1 (0-.5')

Lab Sample ID: 820-3581-1

Date Collected: 03/01/22 13:45

Matrix: Soil

Date Received: 03/03/22 15:30

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	44635	03/11/22 10:05	ANP	XEN STF
Total/NA	Analysis	300.0		1			44629	03/11/22 12:16	WP	XEN STF

Client Sample ID: HA-1.1 (.5'-1')

Lab Sample ID: 820-3581-2

Date Collected: 03/01/22 13:50

Matrix: Soil

Date Received: 03/03/22 15:30

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	44635	03/11/22 10:05	ANP	XEN STF
Total/NA	Analysis	300.0		1			44629	03/11/22 14:17	WP	XEN STF

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

Lab Sample ID: 820-3581-3

Date Collected: 03/01/22 13:55

Matrix: Soil

Date Received: 03/03/22 15:30

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	44635	03/11/22 10:05	ANP	XEN STF
Total/NA	Analysis	300.0		1			44629	03/11/22 14:28	WP	XEN STF

Client Sample ID: HA-1.1 (3.5'-4')

Lab Sample ID: 820-3581-4

Date Collected: 03/01/22 14:00

Matrix: Soil

Date Received: 03/03/22 15:30

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	44635	03/11/22 10:05	ANP	XEN STF
Total/NA	Analysis	300.0		1			44629	03/11/22 14:39	WP	XEN STF

Client Sample ID: HA-2.1 (0-.5')

Lab Sample ID: 820-3581-5

Date Collected: 03/01/22 14:05

Matrix: Soil

Date Received: 03/03/22 15:30

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	44635	03/11/22 10:05	ANP	XEN STF
Total/NA	Analysis	300.0		1			44629	03/11/22 15:12	WP	XEN STF

Client Sample ID: HA-2.1 (.5'-1')

Lab Sample ID: 820-3581-6

Date Collected: 03/01/22 14:10

Matrix: Soil

Date Received: 03/03/22 15:30

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	44635	03/11/22 10:05	ANP	XEN STF
Total/NA	Analysis	300.0		1			44629	03/11/22 15:23	WP	XEN STF

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Site

Job ID: 820-3581-1

Client Sample ID: HA-2.1 (1.5'-2')

Lab Sample ID: 820-3581-7

Date Collected: 03/01/22 14:15

Matrix: Soil

Date Received: 03/03/22 15:30

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			4.99 g	50 mL	44635	03/11/22 10:05	ANP	XEN STF
Total/NA	Analysis	300.0		1			44629	03/11/22 15:34	WP	XEN STF

Client Sample ID: HA-3.1 (0-.5')

Lab Sample ID: 820-3581-8

Date Collected: 03/01/22 14:20

Matrix: Soil

Date Received: 03/03/22 15:30

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	44635	03/11/22 10:05	ANP	XEN STF
Total/NA	Analysis	300.0		1			44629	03/11/22 15:45	WP	XEN STF

Client Sample ID: HA-3.1 (.5'-1')

Lab Sample ID: 820-3581-9

Date Collected: 03/01/22 14:25

Matrix: Soil

Date Received: 03/03/22 15:30

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			5.02 g	50 mL	44635	03/11/22 10:05	ANP	XEN STF
Total/NA	Analysis	300.0		1			44629	03/11/22 15:56	WP	XEN STF

Client Sample ID: HA-3.1 (1.5'-2')

Lab Sample ID: 820-3581-10

Date Collected: 03/01/22 14:30

Matrix: Soil

Date Received: 03/03/22 15:30

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			5.03 g	50 mL	44635	03/11/22 10:05	ANP	XEN STF
Total/NA	Analysis	300.0		1			44629	03/11/22 16:07	WP	XEN STF

Client Sample ID: HA-6.1 (0-.5')

Lab Sample ID: 820-3581-11

Date Collected: 03/01/22 14:35

Matrix: Soil

Date Received: 03/03/22 15:30

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	44635	03/11/22 10:05	ANP	XEN STF
Total/NA	Analysis	300.0		1			44629	03/11/22 20:54	WP	XEN STF

Client Sample ID: HA-6.1 (.5'-1')

Lab Sample ID: 820-3581-12

Date Collected: 03/01/22 14:40

Matrix: Soil

Date Received: 03/03/22 15:30

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	44635	03/11/22 10:05	ANP	XEN STF
Total/NA	Analysis	300.0		1			44629	03/11/22 22:00	WP	XEN STF

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Site

Job ID: 820-3581-1

Client Sample ID: HA-6.1 (1.5'-2')

Lab Sample ID: 820-3581-13

Date Collected: 03/01/22 14:45

Matrix: Soil

Date Received: 03/03/22 15:30

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	44635	03/11/22 10:05	ANP	XEN STF
Total/NA	Analysis	300.0		1			44629	03/11/22 22:11	WP	XEN STF

Client Sample ID: HA-8.1 (0-.5')

Lab Sample ID: 820-3581-14

Date Collected: 03/01/22 14:50

Matrix: Soil

Date Received: 03/03/22 15:30

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			5.03 g	50 mL	44635	03/11/22 10:05	ANP	XEN STF
Total/NA	Analysis	300.0		1			44629	03/11/22 22:22	WP	XEN STF

Client Sample ID: HA-8.1 (.5'-1')

Lab Sample ID: 820-3581-15

Date Collected: 03/01/22 14:55

Matrix: Soil

Date Received: 03/03/22 15:30

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	44635	03/11/22 10:05	ANP	XEN STF
Total/NA	Analysis	300.0		1			44629	03/11/22 22:33	WP	XEN STF

Client Sample ID: HA-8.1 (1.5'-2')

Lab Sample ID: 820-3581-16

Date Collected: 03/01/22 15:00

Matrix: Soil

Date Received: 03/03/22 15:30

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	44635	03/11/22 10:05	ANP	XEN STF
Total/NA	Analysis	300.0		1			44629	03/11/22 22:44	WP	XEN STF

Client Sample ID: HA-7.1 (0-.5')

Lab Sample ID: 820-3581-17

Date Collected: 03/01/22 15:05

Matrix: Soil

Date Received: 03/03/22 15:30

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			5.07 g	50 mL	44635	03/11/22 10:05	ANP	XEN STF
Total/NA	Analysis	300.0		1			44629	03/11/22 22:55	WP	XEN STF

Client Sample ID: HA-7.1 (.5'-1')

Lab Sample ID: 820-3581-18

Date Collected: 03/01/22 15:10

Matrix: Soil

Date Received: 03/03/22 15:30

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	44635	03/11/22 10:05	ANP	XEN STF
Total/NA	Analysis	300.0		1			44629	03/11/22 23:06	WP	XEN STF

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Site

Job ID: 820-3581-1

Client Sample ID: HA-7.1 (1.5'-2')

Lab Sample ID: 820-3581-19

Date Collected: 03/01/22 15:15

Matrix: Soil

Date Received: 03/03/22 15:30

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	44635	03/11/22 10:05	ANP	XEN STF
Total/NA	Analysis	300.0		1			44629	03/12/22 00:12	WP	XEN STF

Client Sample ID: HA-7.1 (3.5'-4')

Lab Sample ID: 820-3581-20

Date Collected: 03/01/22 15:20

Matrix: Soil

Date Received: 03/03/22 15:30

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			5.02 g	50 mL	44635	03/11/22 10:05	ANP	XEN STF
Total/NA	Analysis	300.0		1			44629	03/12/22 00:45	WP	XEN STF

Client Sample ID: HA-10.1 (0-5')

Lab Sample ID: 820-3581-21

Date Collected: 03/01/22 15:25

Matrix: Soil

Date Received: 03/03/22 15:30

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			5.03 g	50 mL	44635	03/11/22 10:05	ANP	XEN STF
Total/NA	Analysis	300.0		1			44629	03/12/22 00:56	WP	XEN STF

Client Sample ID: HA-10.1 (.5'-1')

Lab Sample ID: 820-3581-22

Date Collected: 03/01/22 15:30

Matrix: Soil

Date Received: 03/03/22 15:30

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	44635	03/11/22 10:05	ANP	XEN STF
Total/NA	Analysis	300.0		1			44629	03/12/22 01:07	WP	XEN STF

Client Sample ID: HA-10.1 (1.5'-2')

Lab Sample ID: 820-3581-23

Date Collected: 03/01/22 15:35

Matrix: Soil

Date Received: 03/03/22 15:30

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	44635	03/11/22 10:05	ANP	XEN STF
Total/NA	Analysis	300.0		1			44629	03/12/22 01:18	WP	XEN STF

Client Sample ID: HA-10.1 (3.5'-4')

Lab Sample ID: 820-3581-24

Date Collected: 03/01/22 15:40

Matrix: Soil

Date Received: 03/03/22 15:30

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	44635	03/11/22 10:05	ANP	XEN STF
Total/NA	Analysis	300.0		1			44629	03/12/22 01:51	WP	XEN STF

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Site

Job ID: 820-3581-1

Client Sample ID: HA-5.1 (0-.5')

Lab Sample ID: 820-3581-25

Date Collected: 03/01/22 15:45

Matrix: Soil

Date Received: 03/03/22 15:30

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	44635	03/11/22 10:05	ANP	XEN STF
Total/NA	Analysis	300.0		1			44629	03/12/22 02:02	WP	XEN STF

Client Sample ID: HA-5.1 (.5'-1')

Lab Sample ID: 820-3581-26

Date Collected: 03/01/22 15:50

Matrix: Soil

Date Received: 03/03/22 15:30

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	44635	03/11/22 10:05	ANP	XEN STF
Total/NA	Analysis	300.0		1			44629	03/12/22 02:13	WP	XEN STF

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

Lab Sample ID: 820-3581-27

Date Collected: 03/01/22 15:55

Matrix: Soil

Date Received: 03/03/22 15:30

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	44635	03/11/22 10:05	ANP	XEN STF
Total/NA	Analysis	300.0		1			44629	03/12/22 02:24	WP	XEN STF

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

Lab Sample ID: 820-3581-28

Date Collected: 03/01/22 16:00

Matrix: Soil

Date Received: 03/03/22 15:30

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	DL		4.93 g	50 mL	44635	03/11/22 10:05	ANP	XEN STF
Total/NA	Analysis	300.0	DL	10			44629	03/12/22 02:35	WP	XEN STF

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

Lab Sample ID: 820-3581-29

Date Collected: 03/01/22 16:05

Matrix: Soil

Date Received: 03/03/22 15:30

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	44635	03/11/22 10:05	ANP	XEN STF
Total/NA	Analysis	300.0		1			44629	03/12/22 02:46	WP	XEN STF

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

Lab Sample ID: 820-3581-30

Date Collected: 03/01/22 16:10

Matrix: Soil

Date Received: 03/03/22 15:30

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			5.02 g	50 mL	44635	03/11/22 10:05	ANP	XEN STF
Total/NA	Analysis	300.0		1			44629	03/12/22 02:57	WP	XEN STF

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Site

Job ID: 820-3581-1

Client Sample ID: HA-13 (3.5'-4') Lab Sample ID: 820-3581-31
Date Collected: 03/01/22 16:15 Matrix: Soil
Date Received: 03/03/22 15:30

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			5.10 g	50 mL	44635	03/11/22 10:05	ANP	XEN STF
Total/NA	Analysis	300.0		1			44629	03/12/22 03:30	WP	XEN STF

Laboratory References:
XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

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Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Site

Job ID: 820-3581-1

Laboratory: Eurofins Houston

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-21-44	06-30-22

- 1
- 2
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Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Site

Job ID: 820-3581-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	XEN STF
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	MCAWW	XEN STF

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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: Libbey Site

Job ID: 820-3581-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
820-3581-1	HA-1.1 (0-.5')	Soil	03/01/22 13:45	03/03/22 15:30
820-3581-2	HA-1.1 (.5'-1')	Soil	03/01/22 13:50	03/03/22 15:30
820-3581-3	HA-1 (1.5'-2')	Soil	03/01/22 13:55	03/03/22 15:30
820-3581-4	HA-1.1 (3.5'-4')	Soil	03/01/22 14:00	03/03/22 15:30
820-3581-5	HA-2.1 (0-.5')	Soil	03/01/22 14:05	03/03/22 15:30
820-3581-6	HA-2.1 (.5'-1')	Soil	03/01/22 14:10	03/03/22 15:30
820-3581-7	HA-2.1 (1.5'-2')	Soil	03/01/22 14:15	03/03/22 15:30
820-3581-8	HA-3.1 (0-.5')	Soil	03/01/22 14:20	03/03/22 15:30
820-3581-9	HA-3.1 (.5'-1')	Soil	03/01/22 14:25	03/03/22 15:30
820-3581-10	HA-3.1 (1.5'-2')	Soil	03/01/22 14:30	03/03/22 15:30
820-3581-11	HA-6.1 (0-.5')	Soil	03/01/22 14:35	03/03/22 15:30
820-3581-12	HA-6.1 (.5'-1')	Soil	03/01/22 14:40	03/03/22 15:30
820-3581-13	HA-6.1 (1.5'-2')	Soil	03/01/22 14:45	03/03/22 15:30
820-3581-14	HA-8.1 (0-.5')	Soil	03/01/22 14:50	03/03/22 15:30
820-3581-15	HA-8.1 (.5'-1')	Soil	03/01/22 14:55	03/03/22 15:30
820-3581-16	HA-8.1 (1.5'-2')	Soil	03/01/22 15:00	03/03/22 15:30
820-3581-17	HA-7.1 (0-.5')	Soil	03/01/22 15:05	03/03/22 15:30
820-3581-18	HA-7.1 (.5'-1')	Soil	03/01/22 15:10	03/03/22 15:30
820-3581-19	HA-7.1 (1.5'-2')	Soil	03/01/22 15:15	03/03/22 15:30
820-3581-20	HA-7.1 (3.5'-4')	Soil	03/01/22 15:20	03/03/22 15:30
820-3581-21	HA-10.1 (0-.5')	Soil	03/01/22 15:25	03/03/22 15:30
820-3581-22	HA-10.1 (.5'-1')	Soil	03/01/22 15:30	03/03/22 15:30
820-3581-23	HA-10.1 (1.5'-2')	Soil	03/01/22 15:35	03/03/22 15:30
820-3581-24	HA-10.1 (3.5'-4')	Soil	03/01/22 15:40	03/03/22 15:30
820-3581-25	HA-5.1 (0-.5')	Soil	03/01/22 15:45	03/03/22 15:30
820-3581-26	HA-5.1 (.5'-1')	Soil	03/01/22 15:50	03/03/22 15:30
820-3581-27	HA-5 (1.5'-2')	Soil	03/01/22 15:55	03/03/22 15:30
820-3581-28	HA-13 (0-.5')	Soil	03/01/22 16:00	03/03/22 15:30
820-3581-29	HA-13 (.5'-1')	Soil	03/01/22 16:05	03/03/22 15:30
820-3581-30	HA-13 (1.5'-2')	Soil	03/01/22 16:10	03/03/22 15:30
820-3581-31	HA-13 (3.5'-4')	Soil	03/01/22 16:15	03/03/22 15:30

Loc: 820
3581

Released to Imaging: 12/9/2022 9:57:55 AM

Page 24 of 33

3/14/2022

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CHAIN OF CUSTODY RECORD

Terracon		Laboratory: Xenco Address: 6701 Aberdeen Lubbock, Texas 79424		LAB USE ONLY DUE DATE:							
		Phone: _____ Contact: _____ SRS #: _____		TEMP OF COOLER WHEN RECEIVED (°C) 12.6/12.8							
Office Location Lubbock		Project Manager J. Guesnier		Page 2 of 3							
Sampler's Name Aaron Adams		Sampler's Signature 		Lab Sample ID							
Project Name Libbey Site		Project Number		ANALYSIS REQUESTED							
Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	No. Type of Containers	4 oz Glass	Chloride (EPA Method 300)	
S	3/1/2022	15:00	X	X	HA-8.1 (1.5'-2')			1	1	X	
S	3/1/2022	15:05	X	X	HA-7.1 (0.5')			1	1	X	
S	3/1/2022	15:10	X	X	HA-7.1 (5'-1')			1	1	X	
S	3/1/2022	15:15	X	X	HA-7.1 (1.5'-2')			1	1	X	
S	3/1/2022	15:20	X	X	HA-7.1 (3.5'-4')			1	1	X	
S	3/1/2022	15:25	X	X	HA-10.1 (0.5')			1	1	X	
S	3/1/2022	15:30	X	X	HA-10.1 (5'-1')			1	1	X	
S	3/1/2022	15:35	X	X	HA-10.1 (1.5'-2')			1	1	X	
S	3/1/2022	15:40	X	X	HA-10.1 (3.5'-4')			1	1	X	
S	3/1/2022	15:45	X	X	HA-5.0 (0.5')			1	1	X	
S	3/1/2022	15:50	X	X	HA-5.0 (5'-1')			1	1	X	
TURNAROUND TIME		Normal		48-Hour Rush		24-Hour Rush		TRRP Laboratory Review Checklist		YES ☐ NO ☐	
Relinquished by (Signature) 		Date 3-3-22		Time 8:00am		Date 3-3-22		Time 8:00am		NOTES: e-mail results to: 1. joseph.guesnier@terracon.com 2. erin.loyd@terracon.com	
Relinquished by (Signature) 		Date 3/3/22		Time 15:30		Date 3/3/22		Time 15:30		Relinquished by (Signature) 	
Relinquished by (Signature) 		Date 3/3/22		Time 15:30		Date 3/3/22		Time 15:30		Relinquished by (Signature) 	
W. With A/C - Amber 6 x 1 L VOL - 40 ml		S. 500 250 ml + 6 x 100 ml		L. 1000 250 ml + 6 x 100 ml		A. 1000 250 ml + 6 x 100 ml		C. 1000 250 ml + 6 x 100 ml		S. 500 250 ml + 6 x 100 ml	
Lubbock Office ■ 5827 60th Street, Suite 1 ■ Lubbock, Texas 79424 ■ 806-300-0140 Responsive ■ Resourceful ■ Reliable											

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Eurofins Lubbock

6701 Aberdeen Ave, Suite 8
Lubbock, TX 79424
Phone: 806-794-1296

Chain of Custody Record



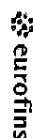
Environment Testing
America

Client Information (Sub Contract Lab)		Sampler	Lab PW:	Carrier/Tracking No(s):	COC No:
Client Contact:		Phone:	Kramer Jessica		820-3297 1
Shipping/Receiving		E-Mail:	Jessica.Kramer@eurofins.com	State of Origin:	Page: 1 of 4
Company:	Eurofins Environment Testing South Cent	Accreditations Required (See note):	NELAP - Texas		Job #: 820-3581 1
Address:	4145 Greenbrier Dr	Due Date Requested:	3/9/2022	Preservation Codes:	
City:	Stafford	TAT Requested (days):		A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 R Na2SO3 F MeOH S H2SO4 G Anchor T TSP Dodecylhydrate H Ascorbic Acid U Acetone I Ice V MCAA J DI Water W pH 4.5 K EDTA Z other (Specify) L EDA Other	
Phone:	281-240-4200(Tel)	PO #:			
Email:		WO #:			
Project Name:	Lobby Site	Project #:	82000340		
Site:		SSOW#:			
Sample Identification - Client ID (Lab ID)					
HA-1 1 (0-5) (820-3581-1)	Sample Date	Sample Time	Sample Type (C-comp, G-grab)	Matrix (W-water, S-solid, O-overwater)	Analysis Requested
HA-1 1 (0-5) (820-3581-1)	3/1/22	13:45	Central	Solid	X
HA-1 1 (5-1) (820-3581-2)	3/1/22	13:50	Central	Solid	X
HA-1 1 (5-2) (820-3581-3)	3/1/22	13:55	Central	Solid	X
HA-1 1 (3.5-4) (820-3581-4)	3/1/22	14:00	Central	Solid	X
HA-2 1 (0-5) (820-3581-5)	3/1/22	14:05	Central	Solid	X
HA-2 1 (5-1) (820-3581-6)	3/1/22	14:10	Central	Solid	X
HA-2 1 (1.5-2) (820-3581-7)	3/1/22	14:15	Central	Solid	X
HA-3 1 (0-5) (820-3581-8)	3/1/22	14:20	Central	Solid	X
HA-3 1 (5-1) (820-3581-9)	3/1/22	14:25	Central	Solid	X
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our 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, 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: <i>Andrew 1 Rungler</i> Date/Time: <i>3/9/22 11:00</i> Company:					
Relinquished by: <i>WAB</i> Date/Time: Company:					
Relinquished by: Date/Time: Company:					
Custody Seals Intact: ☐ Yes ☐ No Custody Seal No.					
Cooler Temperature(s) °C and Other Remarks:					
Special Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months Special Instructions/QC Requirements:					
Method of Shipment:					
Received by: <i>WAB</i> Date/Time: <i>3/9/22 9:28</i> Company:					
Received by: <i>WAB</i> Date/Time: <i>3/9/22 9:28</i> Company:					

Eurofins Midland

1211 W Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record



**Environment Testing
America**

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Phone: 432-704-5440

Chain of Custody Record



**Environment Festivals
America**

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Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record



Environment Testing America

Client Information (Sub Contract Lab)				Lab #/R: Taylor Holly		Carrier Tracking No(s):				
Client Contact:				E-Mail: holly.taylor@eurofnsel.com		State of Origin: Texas				
Shipping/Receiving				Accreditations Required (See note): NELAP Texas		Page 1 of 1				
Company: Eurofins Environment Testing South Cent				Address: 4145 Greenbriar Dr Stefford TX 77477		Phone:				
Due Date Requested: 3/10/2022				TAI Requested (days):		Jan #: 880-12067-1				
City: Stefford				State Zip: TX 77477		Preservation Codes: A. HCL M. Hexane- B. NaOH N. None C. Zn Acetate O. AsHAc2 D. Nitric Acid P. Na2CO3 E. NaHSO4 Q. Na2SO3 F. MeOH R. Na2S2O3 G. Amchlor S. H2SO4 H. Ascorbic Acid T. TSP Dodecylhydrate I. Ice U. Acetone J. DI Water V. MCAA K. EDTA W. pH 4-5 L. EDA Z. other (specify) Other				
Project Name: Wash Bay water				Project #: 88000366		COC No: 880-3844.1				
Site:				SSOW#:		Page 1 of 1				
Sample Identification - Client ID (Lab ID)										
Sample Date		Sample Time	Sample Type (Comp, Grab)	Matrix (Headspace, Spill, Overhead, Frit/Tran, Aque)	Analysis Requested					
AST wash bay Water (880-12067 1)		3/4/22	11:00 Central	Water	5020A/3010A RCRA 11 7470A/7470A Prep Mercury 1010 Calc 9040C/ (MOD) Local Method 6280C/6030C BTEX TX_1005/TX_1005_W_Prep Standard List TX_1005 Calc Total BTEX					
Temp: 4.5 IR ID:HOU-323 C/F: +0.2 Corrected Temp: 4.7					Special Instructions/Note:					
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out sub-contract 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/shipment, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other institutions 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				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)						
Unconfirmed				☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months						
Deliverable Requested: I, II, III, IV Other (specify)				Primary Deliverable Rank: 2						
Empty Kit Relinquished by:				Special Institutions/QCC Requirements:						
Relinquished by:		Date/Time:	Company:	Received by:		Date/Time:	Company:			
Relinquished by:		Date/Time:	Company:	Received by:		Date/Time:	Company:			
Custody Seals Intact:		Custody Seal No		Code Temperature(s) °C and Other Remarks:						
A Yes A No										

Eurofins Midland

1211 W Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record



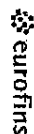
Environment Testing America

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Eurofins Midland

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Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record



Environment Testing America

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Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 820-3581-1

SDG Number:

Login Number: 3581

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: 820-3581-1

SDG Number:

Login Number: 3581

List Number: 2

Creator: Torrez, Lisandra

List Source: Eurofins Houston

List Creation: 03/05/22 10:07 AM

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?	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").	True	



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 820-5242-1

Laboratory Sample Delivery Group: AR217165
Client Project/Site: Libbey

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:

8/11/2022 8:05:27 AM

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: Libbey

Laboratory Job ID: 820-5242-1
SDG: AR217165

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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 Eurofins Philadelphia 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. Eurofins Philadelphia is not responsible for sample integrity unless sampling has been performed by a member of our staff.

· Eurofins Philadelphia 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 Eurofins Philadelphia : Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).



Jessica Kramer
Project Manager
8/11/2022 8:05:27 AM

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Laboratory Job ID: 820-5242-1
SDG: AR217165

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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5242-1
SDG: AR217165

Qualifiers

GC VOA

Qualifier	Qualifier Description
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: Libbey

Job ID: 820-5242-1
SDG: AR217165

Job ID: 820-5242-1

Laboratory: Eurofins Lubbock

Narrative

**Job Narrative
820-5242-1**

Receipt

The samples were received on 8/5/2022 2:02 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 -7.5°C

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: VS-4 (820-5242-4). 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 880-31770/2-A) and (LCSD 880-31770/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: VS-2 (820-5242-2). 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: VS-7 (820-5242-7). 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 880-31639 and analytical batch 880-31796 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: Libbey

Job ID: 820-5242-1
SDG: AR217165

Client Sample ID: VS-1

Lab Sample ID: 820-5242-1

Date Collected: 08/04/22 11:00

Matrix: Soil

Date Received: 08/05/22 14:02

Sample Depth: 4.5' - 5'

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		08/08/22 10:46	08/09/22 02:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:46	08/09/22 02:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:46	08/09/22 02:54	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/08/22 10:46	08/09/22 02:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:46	08/09/22 02:54	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/08/22 10:46	08/09/22 02:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	08/08/22 10:46	08/09/22 02:54	1
1,4-Difluorobenzene (Surr)	80		70 - 130	08/08/22 10:46	08/09/22 02:54	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			08/09/22 10:55	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			08/09/22 09:31	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		08/08/22 14:08	08/08/22 21:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/22 14:08	08/08/22 21:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/08/22 14:08	08/08/22 21:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	08/08/22 14:08	08/08/22 21:31	1
o-Terphenyl	127		70 - 130	08/08/22 14:08	08/08/22 21:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.77	F1	5.00		mg/Kg			08/09/22 05:45	1

Client Sample ID: VS-2

Lab Sample ID: 820-5242-2

Date Collected: 08/04/22 11:10

Matrix: Soil

Date Received: 08/05/22 14:02

Sample Depth: 4.5' - 5'

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		08/08/22 10:46	08/09/22 03:20	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:46	08/09/22 03:20	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:46	08/09/22 03:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/08/22 10:46	08/09/22 03:20	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:46	08/09/22 03:20	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/08/22 10:46	08/09/22 03:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	08/08/22 10:46	08/09/22 03:20	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5242-1
SDG: AR217165

Client Sample ID: VS-2

Lab Sample ID: 820-5242-2

Date Collected: 08/04/22 11:10

Matrix: Soil

Date Received: 08/05/22 14:02

Sample Depth: 4.5' - 5'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	87		70 - 130	08/08/22 10:46	08/09/22 03:20	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			08/09/22 10:55	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			08/09/22 09:31	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		08/08/22 14:08	08/08/22 22:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/22 14:08	08/08/22 22:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/08/22 14:08	08/08/22 22:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				08/08/22 14:08	08/08/22 22:36	1
o-Terphenyl	134	S1+	70 - 130				08/08/22 14:08	08/08/22 22:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.51		4.98		mg/Kg			08/09/22 21:16	1

Client Sample ID: VS-3

Lab Sample ID: 820-5242-3

Date Collected: 08/04/22 11:20

Matrix: Soil

Date Received: 08/05/22 14:02

Sample Depth: 4.5' - 5'

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		08/08/22 10:46	08/09/22 03:45	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/08/22 10:46	08/09/22 03:45	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/08/22 10:46	08/09/22 03:45	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/08/22 10:46	08/09/22 03:45	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/08/22 10:46	08/09/22 03:45	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/08/22 10:46	08/09/22 03:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	08/08/22 10:46	08/09/22 03:45	1
1,4-Difluorobenzene (Surr)	78		70 - 130	08/08/22 10:46	08/09/22 03:45	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			08/09/22 10:55	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			08/09/22 09:31	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5242-1
SDG: AR217165

Client Sample ID: VS-3

Lab Sample ID: 820-5242-3

Date Collected: 08/04/22 11:20

Matrix: Soil

Date Received: 08/05/22 14:02

Sample Depth: 4.5' - 5'

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		08/08/22 14:08	08/08/22 22:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 14:08	08/08/22 22:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 14:08	08/08/22 22:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				08/08/22 14:08	08/08/22 22:58	1
o-Terphenyl	118		70 - 130				08/08/22 14:08	08/08/22 22:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.20		5.00		mg/Kg			08/09/22 06:16	1

Client Sample ID: VS-4

Lab Sample ID: 820-5242-4

Date Collected: 08/04/22 11:30

Matrix: Soil

Date Received: 08/05/22 14:02

Sample Depth: 4.5' - 5'

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		08/08/22 10:46	08/09/22 04:11	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/08/22 10:46	08/09/22 04:11	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/08/22 10:46	08/09/22 04:11	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/08/22 10:46	08/09/22 04:11	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/08/22 10:46	08/09/22 04:11	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/08/22 10:46	08/09/22 04:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130				08/08/22 10:46	08/09/22 04:11	1
1,4-Difluorobenzene (Surr)	85		70 - 130				08/08/22 10:46	08/09/22 04:11	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			08/09/22 10:55	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			08/09/22 09:31	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		08/08/22 14:08	08/08/22 23:20	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/08/22 14:08	08/08/22 23:20	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/08/22 14:08	08/08/22 23:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				08/08/22 14:08	08/08/22 23:20	1
o-Terphenyl	118		70 - 130				08/08/22 14:08	08/08/22 23:20	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5242-1
SDG: AR217165

Client Sample ID: VS-4

Lab Sample ID: 820-5242-4

Date Collected: 08/04/22 11:30

Matrix: Soil

Date Received: 08/05/22 14:02

Sample Depth: 4.5' - 5'

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.5		4.95		mg/Kg			08/09/22 06:24	1

Client Sample ID: VS-5

Lab Sample ID: 820-5242-5

Date Collected: 08/04/22 11:40

Matrix: Soil

Date Received: 08/05/22 14:02

Sample Depth: 4.5' - 5'

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		08/08/22 10:46	08/09/22 04:37	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/08/22 10:46	08/09/22 04:37	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/08/22 10:46	08/09/22 04:37	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/08/22 10:46	08/09/22 04:37	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/08/22 10:46	08/09/22 04:37	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/08/22 10:46	08/09/22 04:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				08/08/22 10:46	08/09/22 04:37	1
1,4-Difluorobenzene (Surr)	88		70 - 130				08/08/22 10:46	08/09/22 04:37	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			08/09/22 10:55	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			08/09/22 09:31	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		08/08/22 14:08	08/08/22 23:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 14:08	08/08/22 23:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 14:08	08/08/22 23:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				08/08/22 14:08	08/08/22 23:42	1
o-Terphenyl	114		70 - 130				08/08/22 14:08	08/08/22 23:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.47		5.04		mg/Kg			08/09/22 06:32	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5242-1
SDG: AR217165

Client Sample ID: VS-6

Lab Sample ID: 820-5242-6

Date Collected: 08/04/22 11:50

Matrix: Soil

Date Received: 08/05/22 14:02

Sample Depth: 4.5' - 5'

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		08/08/22 10:46	08/09/22 05:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:46	08/09/22 05:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:46	08/09/22 05:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/08/22 10:46	08/09/22 05:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:46	08/09/22 05:03	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/08/22 10:46	08/09/22 05:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	08/08/22 10:46	08/09/22 05:03	1
1,4-Difluorobenzene (Surr)	87		70 - 130	08/08/22 10:46	08/09/22 05:03	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			08/09/22 10:55	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			08/09/22 09:31	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		08/08/22 14:08	08/09/22 00:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 14:08	08/09/22 00:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 14:08	08/09/22 00:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	08/08/22 14:08	08/09/22 00:03	1
o-Terphenyl	114		70 - 130	08/08/22 14:08	08/09/22 00:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.48		4.97		mg/Kg			08/09/22 06:55	1

Client Sample ID: VS-7

Lab Sample ID: 820-5242-7

Date Collected: 08/04/22 12:00

Matrix: Soil

Date Received: 08/05/22 14:02

Sample Depth: 4.5' - 5'

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		08/08/22 10:46	08/09/22 05:29	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:46	08/09/22 05:29	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:46	08/09/22 05:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/08/22 10:46	08/09/22 05:29	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:46	08/09/22 05:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/08/22 10:46	08/09/22 05:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	08/08/22 10:46	08/09/22 05:29	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5242-1
SDG: AR217165

Client Sample ID: VS-7

Lab Sample ID: 820-5242-7

Date Collected: 08/04/22 12:00

Matrix: Soil

Date Received: 08/05/22 14:02

Sample Depth: 4.5' - 5'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	83		70 - 130	08/08/22 10:46	08/09/22 05:29	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			08/09/22 10:55	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			08/09/22 09:31	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		08/08/22 14:08	08/09/22 00:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 14:08	08/09/22 00:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 14:08	08/09/22 00:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				08/08/22 14:08	08/09/22 00:24	1
o-Terphenyl	131	S1+	70 - 130				08/08/22 14:08	08/09/22 00:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	552		4.96		mg/Kg			08/09/22 07:03	1

Client Sample ID: VS-8

Lab Sample ID: 820-5242-8

Date Collected: 08/04/22 12:10

Matrix: Soil

Date Received: 08/05/22 14:02

Sample Depth: 4.5' - 5'

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		08/08/22 10:46	08/09/22 07:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:46	08/09/22 07:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:46	08/09/22 07:14	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/08/22 10:46	08/09/22 07:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:46	08/09/22 07:14	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/08/22 10:46	08/09/22 07:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	08/08/22 10:46	08/09/22 07:14	1
1,4-Difluorobenzene (Surr)	81		70 - 130	08/08/22 10:46	08/09/22 07:14	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			08/09/22 10:55	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			08/09/22 09:31	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5242-1
SDG: AR217165

Client Sample ID: VS-8

Lab Sample ID: 820-5242-8

Date Collected: 08/04/22 12:10

Matrix: Soil

Date Received: 08/05/22 14:02

Sample Depth: 4.5' - 5'

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		08/08/22 14:08	08/09/22 00:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 14:08	08/09/22 00:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 14:08	08/09/22 00:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				08/08/22 14:08	08/09/22 00:45	1
o-Terphenyl	117		70 - 130				08/08/22 14:08	08/09/22 00:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	183		5.00		mg/Kg			08/09/22 07:11	1

Client Sample ID: VS-9

Lab Sample ID: 820-5242-9

Date Collected: 08/04/22 12:20

Matrix: Soil

Date Received: 08/05/22 14:02

Sample Depth: 4.5' - 5'

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		08/08/22 10:46	08/09/22 07:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:46	08/09/22 07:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:46	08/09/22 07:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/08/22 10:46	08/09/22 07:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:46	08/09/22 07:41	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/08/22 10:46	08/09/22 07:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130				08/08/22 10:46	08/09/22 07:41	1
1,4-Difluorobenzene (Surr)	91		70 - 130				08/08/22 10:46	08/09/22 07:41	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			08/09/22 10:55	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			08/09/22 09:31	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		08/08/22 14:08	08/09/22 01:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/22 14:08	08/09/22 01:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/08/22 14:08	08/09/22 01:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				08/08/22 14:08	08/09/22 01:06	1
o-Terphenyl	120		70 - 130				08/08/22 14:08	08/09/22 01:06	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5242-1
SDG: AR217165

Client Sample ID: VS-9

Lab Sample ID: 820-5242-9

Date Collected: 08/04/22 12:20

Matrix: Soil

Date Received: 08/05/22 14:02

Sample Depth: 4.5' - 5'

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	181		4.99		mg/Kg			08/09/22 07:19	1

Client Sample ID: VS-10

Lab Sample ID: 820-5242-10

Date Collected: 08/04/22 12:30

Matrix: Soil

Date Received: 08/05/22 14:02

Sample Depth: 4.5' - 5'

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		08/08/22 10:46	08/09/22 08:02	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/08/22 10:46	08/09/22 08:02	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/08/22 10:46	08/09/22 08:02	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/08/22 10:46	08/09/22 08:02	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/08/22 10:46	08/09/22 08:02	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/08/22 10:46	08/09/22 08:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				08/08/22 10:46	08/09/22 08:02	1
1,4-Difluorobenzene (Surr)	88		70 - 130				08/08/22 10:46	08/09/22 08:02	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			08/09/22 10:55	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			08/09/22 09:31	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		08/08/22 14:08	08/09/22 01:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/22 14:08	08/09/22 01:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/08/22 14:08	08/09/22 01:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				08/08/22 14:08	08/09/22 01:28	1
o-Terphenyl	117		70 - 130				08/08/22 14:08	08/09/22 01:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.6		4.98		mg/Kg			08/09/22 21:24	1

Eurofins Lubbock

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5242-1
SDG: AR217165

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Soil

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
820-5242-1	VS-1	123	80
820-5242-2	VS-2	107	87
820-5242-3	VS-3	119	78
820-5242-4	VS-4	142 S1+	85
820-5242-5	VS-5	120	88
820-5242-6	VS-6	113	87
820-5242-7	VS-7	121	83
820-5242-8	VS-8	120	81
820-5242-9	VS-9	123	91
820-5242-10	VS-10	120	88
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)
LCS 880-31731/1-A	Lab Control Sample	125	85
LCSD 880-31731/2-A	Lab Control Sample Dup	111	83
MB 880-31523/5-A	Method Blank	92	80
MB 880-31731/5-A	Method Blank	92	80
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)
820-5242-1	VS-1	105	127
820-5242-1 MS	VS-1	90	99
820-5242-1 MSD	VS-1	88	97
820-5242-2	VS-2	111	134 S1+
820-5242-3	VS-3	99	118
820-5242-4	VS-4	98	118
820-5242-5	VS-5	95	114
820-5242-6	VS-6	96	114
820-5242-7	VS-7	109	131 S1+
820-5242-8	VS-8	100	117
820-5242-9	VS-9	101	120
820-5242-10	VS-10	101	117
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5242-1
SDG: AR217165

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
		1CO1	OTPH1						
Lab Sample ID	Client Sample ID	(70-130)	(70-130)						
LCS 880-31770/2-A	Lab Control Sample	122	150 S1+						
LCSD 880-31770/3-A	Lab Control Sample Dup	118	142 S1+						
MB 880-31770/1-A	Method Blank	95	117						
Surrogate Legend									
1CO = 1-Chlorooctane									
OTPH = o-Terphenyl									

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5242-1
SDG: AR217165

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-31523/5-A

Matrix: Solid

Analysis Batch: 31678

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31523

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/04/22 16:53	08/08/22 11:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/04/22 16:53	08/08/22 11:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/04/22 16:53	08/08/22 11:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/04/22 16:53	08/08/22 11:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/04/22 16:53	08/08/22 11:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/04/22 16:53	08/08/22 11:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	08/04/22 16:53	08/08/22 11:35	1
1,4-Difluorobenzene (Surr)	80		70 - 130	08/04/22 16:53	08/08/22 11:35	1

Lab Sample ID: MB 880-31731/5-A

Matrix: Solid

Analysis Batch: 31678

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31731

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:46	08/09/22 01:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:46	08/09/22 01:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:46	08/09/22 01:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/08/22 10:46	08/09/22 01:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:46	08/09/22 01:11	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/08/22 10:46	08/09/22 01:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	08/08/22 10:46	08/09/22 01:11	1
1,4-Difluorobenzene (Surr)	80		70 - 130	08/08/22 10:46	08/09/22 01:11	1

Lab Sample ID: LCS 880-31731/1-A

Matrix: Solid

Analysis Batch: 31678

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31731

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08288		mg/Kg		83	70 - 130
Toluene	0.100	0.08549		mg/Kg		85	70 - 130
Ethylbenzene	0.100	0.08686		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	0.200	0.1774		mg/Kg		89	70 - 130
o-Xylene	0.100	0.09732		mg/Kg		97	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	125		70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

Lab Sample ID: LCSD 880-31731/2-A

Matrix: Solid

Analysis Batch: 31678

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 31731

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.08517		mg/Kg		85	70 - 130	3	35

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5242-1
SDG: AR217165

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

Lab Sample ID: LCSD 880-31731/2-A

Matrix: Solid

Analysis Batch: 31678

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 31731

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.09048		mg/Kg		90	70 - 130	6	35
Ethylbenzene	0.100	0.08974		mg/Kg		90	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1833		mg/Kg		92	70 - 130	3	35
o-Xylene	0.100	0.09907		mg/Kg		99	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	83		70 - 130

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

Lab Sample ID: MB 880-31770/1-A

Matrix: Solid

Analysis Batch: 31670

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31770

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		08/08/22 14:08	08/08/22 20:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 14:08	08/08/22 20:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 14:08	08/08/22 20:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	08/08/22 14:08	08/08/22 20:26	1
o-Terphenyl	117		70 - 130	08/08/22 14:08	08/08/22 20:26	1

Lab Sample ID: LCS 880-31770/2-A

Matrix: Solid

Analysis Batch: 31670

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31770

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	984.0		mg/Kg		98	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1141		mg/Kg		114	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	122		70 - 130
o-Terphenyl	150	S1+	70 - 130

Lab Sample ID: LCSD 880-31770/3-A

Matrix: Solid

Analysis Batch: 31670

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 31770

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1015		mg/Kg		101	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	1093		mg/Kg		109	70 - 130	4	20

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5242-1
SDG: AR217165

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

Lab Sample ID: LCSD 880-31770/3-A

Matrix: Solid

Analysis Batch: 31670

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 31770

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	118		70 - 130
o-Terphenyl	142	S1+	70 - 130

Lab Sample ID: 820-5242-1 MS

Matrix: Soil

Analysis Batch: 31670

Client Sample ID: VS-1

Prep Type: Total/NA

Prep Batch: 31770

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	989.5		mg/Kg		97	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U	999	748.9		mg/Kg		75	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	90		70 - 130							
o-Terphenyl	99		70 - 130							

Lab Sample ID: 820-5242-1 MSD

Matrix: Soil

Analysis Batch: 31670

Client Sample ID: VS-1

Prep Type: Total/NA

Prep Batch: 31770

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	919.9		mg/Kg		90	70 - 130	7	20	
Diesel Range Organics (Over C10-C28)	<49.9	U	999	735.1		mg/Kg		74	70 - 130	2	20	
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	88		70 - 130									
o-Terphenyl	97		70 - 130									

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-31639/1-B

Matrix: Solid

Analysis Batch: 31796

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			08/09/22 05:21	1	

Lab Sample ID: LCS 880-31639/2-B

Matrix: Solid

Analysis Batch: 31796

Client Sample ID: Lab Control Sample

Prep Type: Soluble

	Spike	LCS	LCS						%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Chloride	250	229.4		mg/Kg		92	90 - 110			

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5242-1
SDG: AR217165

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-31639/3-B

Matrix: Solid

Analysis Batch: 31796

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	230.8		mg/Kg		92	90 - 110	1	20

Lab Sample ID: 820-5242-1 MS

Matrix: Soil

Analysis Batch: 31796

Client Sample ID: VS-1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	6.77	F1	250	505.4	F1	mg/Kg		199	90 - 110		

Lab Sample ID: 820-5242-1 MSD

Matrix: Soil

Analysis Batch: 31796

Client Sample ID: VS-1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	6.77	F1	250	504.0	F1	mg/Kg		199	90 - 110	0	20

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5242-1
SDG: AR217165

GC VOA

Prep Batch: 31523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-31523/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 31678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5242-1	VS-1	Total/NA	Soil	8021B	31731
820-5242-2	VS-2	Total/NA	Soil	8021B	31731
820-5242-3	VS-3	Total/NA	Soil	8021B	31731
820-5242-4	VS-4	Total/NA	Soil	8021B	31731
820-5242-5	VS-5	Total/NA	Soil	8021B	31731
820-5242-6	VS-6	Total/NA	Soil	8021B	31731
820-5242-7	VS-7	Total/NA	Soil	8021B	31731
820-5242-8	VS-8	Total/NA	Soil	8021B	31731
820-5242-9	VS-9	Total/NA	Soil	8021B	31731
820-5242-10	VS-10	Total/NA	Soil	8021B	31731
MB 880-31523/5-A	Method Blank	Total/NA	Solid	8021B	31523
MB 880-31731/5-A	Method Blank	Total/NA	Solid	8021B	31731
LCS 880-31731/1-A	Lab Control Sample	Total/NA	Solid	8021B	31731
LCSD 880-31731/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31731

Prep Batch: 31731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5242-1	VS-1	Total/NA	Soil	5035	
820-5242-2	VS-2	Total/NA	Soil	5035	
820-5242-3	VS-3	Total/NA	Soil	5035	
820-5242-4	VS-4	Total/NA	Soil	5035	
820-5242-5	VS-5	Total/NA	Soil	5035	
820-5242-6	VS-6	Total/NA	Soil	5035	
820-5242-7	VS-7	Total/NA	Soil	5035	
820-5242-8	VS-8	Total/NA	Soil	5035	
820-5242-9	VS-9	Total/NA	Soil	5035	
820-5242-10	VS-10	Total/NA	Soil	5035	
MB 880-31731/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31731/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31731/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 31848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5242-1	VS-1	Total/NA	Soil	Total BTEX	
820-5242-2	VS-2	Total/NA	Soil	Total BTEX	
820-5242-3	VS-3	Total/NA	Soil	Total BTEX	
820-5242-4	VS-4	Total/NA	Soil	Total BTEX	
820-5242-5	VS-5	Total/NA	Soil	Total BTEX	
820-5242-6	VS-6	Total/NA	Soil	Total BTEX	
820-5242-7	VS-7	Total/NA	Soil	Total BTEX	
820-5242-8	VS-8	Total/NA	Soil	Total BTEX	
820-5242-9	VS-9	Total/NA	Soil	Total BTEX	
820-5242-10	VS-10	Total/NA	Soil	Total BTEX	

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5242-1
SDG: AR217165

GC Semi VOA

Analysis Batch: 31670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5242-1	VS-1	Total/NA	Soil	8015B NM	31770
820-5242-2	VS-2	Total/NA	Soil	8015B NM	31770
820-5242-3	VS-3	Total/NA	Soil	8015B NM	31770
820-5242-4	VS-4	Total/NA	Soil	8015B NM	31770
820-5242-5	VS-5	Total/NA	Soil	8015B NM	31770
820-5242-6	VS-6	Total/NA	Soil	8015B NM	31770
820-5242-7	VS-7	Total/NA	Soil	8015B NM	31770
820-5242-8	VS-8	Total/NA	Soil	8015B NM	31770
820-5242-9	VS-9	Total/NA	Soil	8015B NM	31770
820-5242-10	VS-10	Total/NA	Soil	8015B NM	31770
MB 880-31770/1-A	Method Blank	Total/NA	Solid	8015B NM	31770
LCS 880-31770/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	31770
LCSD 880-31770/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	31770
820-5242-1 MS	VS-1	Total/NA	Soil	8015B NM	31770
820-5242-1 MSD	VS-1	Total/NA	Soil	8015B NM	31770

Prep Batch: 31770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5242-1	VS-1	Total/NA	Soil	8015NM Prep	
820-5242-2	VS-2	Total/NA	Soil	8015NM Prep	
820-5242-3	VS-3	Total/NA	Soil	8015NM Prep	
820-5242-4	VS-4	Total/NA	Soil	8015NM Prep	
820-5242-5	VS-5	Total/NA	Soil	8015NM Prep	
820-5242-6	VS-6	Total/NA	Soil	8015NM Prep	
820-5242-7	VS-7	Total/NA	Soil	8015NM Prep	
820-5242-8	VS-8	Total/NA	Soil	8015NM Prep	
820-5242-9	VS-9	Total/NA	Soil	8015NM Prep	
820-5242-10	VS-10	Total/NA	Soil	8015NM Prep	
MB 880-31770/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-31770/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-31770/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
820-5242-1 MS	VS-1	Total/NA	Soil	8015NM Prep	
820-5242-1 MSD	VS-1	Total/NA	Soil	8015NM Prep	

Analysis Batch: 31837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5242-1	VS-1	Total/NA	Soil	8015 NM	
820-5242-2	VS-2	Total/NA	Soil	8015 NM	
820-5242-3	VS-3	Total/NA	Soil	8015 NM	
820-5242-4	VS-4	Total/NA	Soil	8015 NM	
820-5242-5	VS-5	Total/NA	Soil	8015 NM	
820-5242-6	VS-6	Total/NA	Soil	8015 NM	
820-5242-7	VS-7	Total/NA	Soil	8015 NM	
820-5242-8	VS-8	Total/NA	Soil	8015 NM	
820-5242-9	VS-9	Total/NA	Soil	8015 NM	
820-5242-10	VS-10	Total/NA	Soil	8015 NM	

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5242-1
SDG: AR217165

HPLC/IC

Leach Batch: 31639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5242-1	VS-1	Soluble	Soil	DI Leach	
820-5242-2	VS-2	Soluble	Soil	DI Leach	
820-5242-3	VS-3	Soluble	Soil	DI Leach	
820-5242-4	VS-4	Soluble	Soil	DI Leach	
820-5242-5	VS-5	Soluble	Soil	DI Leach	
820-5242-6	VS-6	Soluble	Soil	DI Leach	
820-5242-7	VS-7	Soluble	Soil	DI Leach	
820-5242-8	VS-8	Soluble	Soil	DI Leach	
820-5242-9	VS-9	Soluble	Soil	DI Leach	
820-5242-10	VS-10	Soluble	Soil	DI Leach	
MB 880-31639/1-B	Method Blank	Soluble	Solid	DI Leach	
LCS 880-31639/2-B	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-31639/3-B	Lab Control Sample Dup	Soluble	Solid	DI Leach	
820-5242-1 MS	VS-1	Soluble	Soil	DI Leach	
820-5242-1 MSD	VS-1	Soluble	Soil	DI Leach	

Analysis Batch: 31796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5242-1	VS-1	Soluble	Soil	300.0	31639
820-5242-2	VS-2	Soluble	Soil	300.0	31639
820-5242-3	VS-3	Soluble	Soil	300.0	31639
820-5242-4	VS-4	Soluble	Soil	300.0	31639
820-5242-5	VS-5	Soluble	Soil	300.0	31639
820-5242-6	VS-6	Soluble	Soil	300.0	31639
820-5242-7	VS-7	Soluble	Soil	300.0	31639
820-5242-8	VS-8	Soluble	Soil	300.0	31639
820-5242-9	VS-9	Soluble	Soil	300.0	31639
820-5242-10	VS-10	Soluble	Soil	300.0	31639
MB 880-31639/1-B	Method Blank	Soluble	Solid	300.0	31639
LCS 880-31639/2-B	Lab Control Sample	Soluble	Solid	300.0	31639
LCSD 880-31639/3-B	Lab Control Sample Dup	Soluble	Solid	300.0	31639
820-5242-1 MS	VS-1	Soluble	Soil	300.0	31639
820-5242-1 MSD	VS-1	Soluble	Soil	300.0	31639

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5242-1
SDG: AR217165

Client Sample ID: VS-1

Lab Sample ID: 820-5242-1

Date Collected: 08/04/22 11:00

Matrix: Soil

Date Received: 08/05/22 14:02

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	31731	08/08/22 10:46	EL	EETSC MID
Total/NA	Analysis	8021B		1			31678	08/09/22 02:54	MR	EETSC MII
Total/NA	Analysis	Total BTEX		1			31848	08/09/22 10:55	SM	EETSC MII
Total/NA	Analysis	8015 NM		1			31837	08/09/22 09:31	SM	EETSC MII
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31770	08/08/22 14:08	DM	EETSC MII
Total/NA	Analysis	8015B NM		1			31670	08/08/22 21:31	SM	EETSC MII
Soluble	Leach	DI Leach			5 g	50 mL	31639	08/06/22 16:25	CH	EETSC MII
Soluble	Analysis	300.0		1			31796	08/09/22 05:45	CH	EETSC MII

Client Sample ID: VS-2

Lab Sample ID: 820-5242-2

Date Collected: 08/04/22 11:10

Matrix: Soil

Date Received: 08/05/22 14:02

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	31731	08/08/22 10:46	EL	EETSC MID
Total/NA	Analysis	8021B		1			31678	08/09/22 03:20	MR	EETSC MII
Total/NA	Analysis	Total BTEX		1			31848	08/09/22 10:55	SM	EETSC MII
Total/NA	Analysis	8015 NM		1			31837	08/09/22 09:31	SM	EETSC MII
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	31770	08/08/22 14:08	DM	EETSC MII
Total/NA	Analysis	8015B NM		1			31670	08/08/22 22:36	SM	EETSC MII
Soluble	Leach	DI Leach			5.02 g	50 mL	31639	08/06/22 16:25	CH	EETSC MII
Soluble	Analysis	300.0		1			31796	08/09/22 21:16	CH	EETSC MII

Client Sample ID: VS-3

Lab Sample ID: 820-5242-3

Date Collected: 08/04/22 11:20

Matrix: Soil

Date Received: 08/05/22 14:02

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	31731	08/08/22 10:46	EL	EETSC MID
Total/NA	Analysis	8021B		1			31678	08/09/22 03:45	MR	EETSC MII
Total/NA	Analysis	Total BTEX		1			31848	08/09/22 10:55	SM	EETSC MII
Total/NA	Analysis	8015 NM		1			31837	08/09/22 09:31	SM	EETSC MII
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31770	08/08/22 14:08	DM	EETSC MII
Total/NA	Analysis	8015B NM		1			31670	08/08/22 22:58	SM	EETSC MII
Soluble	Leach	DI Leach			5 g	50 mL	31639	08/06/22 16:25	CH	EETSC MII
Soluble	Analysis	300.0		1			31796	08/09/22 06:16	CH	EETSC MII

Client Sample ID: VS-4

Lab Sample ID: 820-5242-4

Date Collected: 08/04/22 11:30

Matrix: Soil

Date Received: 08/05/22 14:02

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	31731	08/08/22 10:46	EL	EETSC MID
Total/NA	Analysis	8021B		1			31678	08/09/22 04:11	MR	EETSC MII
Total/NA	Analysis	Total BTEX		1			31848	08/09/22 10:55	SM	EETSC MII

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5242-1
SDG: AR217165

Client Sample ID: VS-4

Lab Sample ID: 820-5242-4

Date Collected: 08/04/22 11:30

Matrix: Soil

Date Received: 08/05/22 14:02

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			31837	08/09/22 09:31	SM	EETSC MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	31770	08/08/22 14:08	DM	EETSC MII
Total/NA	Analysis	8015B NM		1			31670	08/08/22 23:20	SM	EETSC MII
Soluble	Leach	DI Leach			5.05 g	50 mL	31639	08/06/22 16:25	CH	EETSC MII
Soluble	Analysis	300.0		1			31796	08/09/22 06:24	CH	EETSC MII

Client Sample ID: VS-5

Lab Sample ID: 820-5242-5

Date Collected: 08/04/22 11:40

Matrix: Soil

Date Received: 08/05/22 14:02

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	31731	08/08/22 10:46	EL	EETSC MID
Total/NA	Analysis	8021B		1			31678	08/09/22 04:37	MR	EETSC MII
Total/NA	Analysis	Total BTEX		1			31848	08/09/22 10:55	SM	EETSC MII
Total/NA	Analysis	8015 NM		1			31837	08/09/22 09:31	SM	EETSC MII
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	31770	08/08/22 14:08	DM	EETSC MII
Total/NA	Analysis	8015B NM		1			31670	08/08/22 23:42	SM	EETSC MII
Soluble	Leach	DI Leach			4.96 g	50 mL	31639	08/06/22 16:25	CH	EETSC MII
Soluble	Analysis	300.0		1			31796	08/09/22 06:32	CH	EETSC MII

Client Sample ID: VS-6

Lab Sample ID: 820-5242-6

Date Collected: 08/04/22 11:50

Matrix: Soil

Date Received: 08/05/22 14:02

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	31731	08/08/22 10:46	EL	EETSC MID
Total/NA	Analysis	8021B		1			31678	08/09/22 05:03	MR	EETSC MII
Total/NA	Analysis	Total BTEX		1			31848	08/09/22 10:55	SM	EETSC MII
Total/NA	Analysis	8015 NM		1			31837	08/09/22 09:31	SM	EETSC MII
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31770	08/08/22 14:08	DM	EETSC MII
Total/NA	Analysis	8015B NM		1			31670	08/09/22 00:03	SM	EETSC MII
Soluble	Leach	DI Leach			5.03 g	50 mL	31639	08/06/22 16:25	CH	EETSC MII
Soluble	Analysis	300.0		1			31796	08/09/22 06:55	CH	EETSC MII

Client Sample ID: VS-7

Lab Sample ID: 820-5242-7

Date Collected: 08/04/22 12:00

Matrix: Soil

Date Received: 08/05/22 14:02

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	31731	08/08/22 10:46	EL	EETSC MID
Total/NA	Analysis	8021B		1			31678	08/09/22 05:29	MR	EETSC MII
Total/NA	Analysis	Total BTEX		1			31848	08/09/22 10:55	SM	EETSC MII
Total/NA	Analysis	8015 NM		1			31837	08/09/22 09:31	SM	EETSC MII
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31770	08/08/22 14:08	DM	EETSC MII
Total/NA	Analysis	8015B NM		1			31670	08/09/22 00:24	SM	EETSC MII

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5242-1
SDG: AR217165

Client Sample ID: VS-7

Lab Sample ID: 820-5242-7

Date Collected: 08/04/22 12:00

Matrix: Soil

Date Received: 08/05/22 14:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	31639	08/06/22 16:25	CH	EETSC MID
Soluble	Analysis	300.0		1			31796	08/09/22 07:03	CH	EETSC MII

Client Sample ID: VS-8

Lab Sample ID: 820-5242-8

Date Collected: 08/04/22 12:10

Matrix: Soil

Date Received: 08/05/22 14:02

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	31731	08/08/22 10:46	EL	EETSC MID
Total/NA	Analysis	8021B		1			31678	08/09/22 07:14	MR	EETSC MII
Total/NA	Analysis	Total BTEX		1			31848	08/09/22 10:55	SM	EETSC MII
Total/NA	Analysis	8015 NM		1			31837	08/09/22 09:31	SM	EETSC MII
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31770	08/08/22 14:08	DM	EETSC MII
Total/NA	Analysis	8015B NM		1			31670	08/09/22 00:45	SM	EETSC MII
Soluble	Leach	DI Leach			5 g	50 mL	31639	08/06/22 16:25	CH	EETSC MII
Soluble	Analysis	300.0		1			31796	08/09/22 07:11	CH	EETSC MII

Client Sample ID: VS-9

Lab Sample ID: 820-5242-9

Date Collected: 08/04/22 12:20

Matrix: Soil

Date Received: 08/05/22 14:02

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	31731	08/08/22 10:46	EL	EETSC MID
Total/NA	Analysis	8021B		1			31678	08/09/22 07:41	MR	EETSC MII
Total/NA	Analysis	Total BTEX		1			31848	08/09/22 10:55	SM	EETSC MII
Total/NA	Analysis	8015 NM		1			31837	08/09/22 09:31	SM	EETSC MII
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31770	08/08/22 14:08	DM	EETSC MII
Total/NA	Analysis	8015B NM		1			31670	08/09/22 01:06	SM	EETSC MII
Soluble	Leach	DI Leach			5.01 g	50 mL	31639	08/06/22 16:25	CH	EETSC MII
Soluble	Analysis	300.0		1			31796	08/09/22 07:19	CH	EETSC MII

Client Sample ID: VS-10

Lab Sample ID: 820-5242-10

Date Collected: 08/04/22 12:30

Matrix: Soil

Date Received: 08/05/22 14:02

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	31731	08/08/22 10:46	EL	EETSC MID
Total/NA	Analysis	8021B		1			31678	08/09/22 08:02	MR	EETSC MII
Total/NA	Analysis	Total BTEX		1			31848	08/09/22 10:55	SM	EETSC MII
Total/NA	Analysis	8015 NM		1			31837	08/09/22 09:31	SM	EETSC MII
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31770	08/08/22 14:08	DM	EETSC MII
Total/NA	Analysis	8015B NM		1			31670	08/09/22 01:28	SM	EETSC MII
Soluble	Leach	DI Leach			5.02 g	50 mL	31639	08/06/22 16:25	CH	EETSC MII
Soluble	Analysis	300.0		1			31796	08/09/22 21:24	CH	EETSC MII

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5242-1
SDG: AR217165

Laboratory References:

EETSC MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

- 1
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Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5242-1
SDG: AR217165

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	T104704400-22-24	06-30-23

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
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14

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5242-1
SDG: AR217165

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EETSC MID
Total BTEX	Total BTEX Calculation	TAL SOP	EETSC MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EETSC MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EETSC MID
300.0	Anions, Ion Chromatography	MCAWW	EETSC MID
5035	Closed System Purge and Trap	SW846	EETSC MID
8015NM Prep	Microextraction	SW846	EETSC MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EETSC 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:

EETSC MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5242-1
SDG: AR217165

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
820-5242-1	VS-1	Soil	08/04/22 11:00	08/05/22 14:02	4.5' - 5'
820-5242-2	VS-2	Soil	08/04/22 11:10	08/05/22 14:02	4.5' - 5'
820-5242-3	VS-3	Soil	08/04/22 11:20	08/05/22 14:02	4.5' - 5'
820-5242-4	VS-4	Soil	08/04/22 11:30	08/05/22 14:02	4.5' - 5'
820-5242-5	VS-5	Soil	08/04/22 11:40	08/05/22 14:02	4.5' - 5'
820-5242-6	VS-6	Soil	08/04/22 11:50	08/05/22 14:02	4.5' - 5'
820-5242-7	VS-7	Soil	08/04/22 12:00	08/05/22 14:02	4.5' - 5'
820-5242-8	VS-8	Soil	08/04/22 12:10	08/05/22 14:02	4.5' - 5'
820-5242-9	VS-9	Soil	08/04/22 12:20	08/05/22 14:02	4.5' - 5'
820-5242-10	VS-10	Soil	08/04/22 12:30	08/05/22 14:02	4.5' - 5'

Loc: 820
5242

820-5242 Chain of Custody

CHAIN OF CUSTODY RECORD

Office Location		Laboratory: Xenco		Address: 6701 Aberdeen Lubbock, Texas 79424		Phone: _____		Contact: _____		SRS #: _____		Sampler's Signature _____	
Project Manager J. Guesnier		Project Number AR217165		Project Name Libbey		Identifying Marks of Sample(s)		No. Type of Containers		ANALYSIS REQUESTED		LAB USE ONLY	
Date	Time	Comp	Grab	Start Depth	End Depth	4 oz Glass	2 oz Glass	250 ml Poly	Chloride (EPA Method 300)	TPH Extended 8015	BTEX (EPA Method 8021B)	TEMP OF COOLER WHEN RECEIVED (°C)	DUE DATE:
8/4/2022	11:00	X	X	4.5'	5'	X	X		X	X	X	-7.4/-7.5	
8/4/2022	11:10	X	X	4.5'	5'	X	X		X	X	X	12.4	
8/4/2022	11:20	X	X	4.5'	5'	X	X		X	X	X		
8/4/2022	11:30	X	X	4.5'	5'	X	X		X	X	X		
8/4/2022	11:40	X	X	4.5'	5'	X	X		X	X	X		
8/4/2022	11:50	X	X	4.5'	5'	X	X		X	X	X		
8/4/2022	12:00	X	X	4.5'	5'	X	X		X	X	X		
8/4/2022	12:10	X	X	4.5'	5'	X	X		X	X	X		
8/4/2022	12:20	X	X	4.5'	5'	X	X		X	X	X		
8/4/2022	12:30	X	X	4.5'	5'	X	X		X	X	X		

TURNAROUND TIME		48-Hour Rush		24-Hour Rush		TRRP Laboratory Review Checklist	
Relinquished by (Signature)	Date: 8-5-22	Time: 14:02	Received by (Signature)	Date: 8/5/22	Time: 1402	Yes	No
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:		

Bill To: Solaris Water Midstream (Rob Kirk)

e-mail results to:
 joseph.guesnier@terracon.com
 erin.loyd@terracon.com
 mike.adams@terracon.com

Matrix Container: WW Wastewater VOA: 40 ml total

W: Water A/G: Amber Glass 11

S: Soil 250 ml = glass wide mouth

L: Liquid 1: Plastic or other

C: Charcoal tube

SL: Sludge

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

Responsive ■ Resourceful ■ Reliable

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 820-5242-1

SDG Number: AR217165

Login Number: 5242

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: 820-5242-1

SDG Number: AR217165

Login Number: 5242

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 08/08/22 08:34 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: 820-5243-1

Laboratory Sample Delivery Group: AR217165
Client Project/Site: Libbey

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:

8/11/2022 7:58:18 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: Libbey

Laboratory Job ID: 820-5243-1
SDG: AR217165

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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 Eurofins Philadelphia 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. Eurofins Philadelphia is not responsible for sample integrity unless sampling has been performed by a member of our staff.

· Eurofins Philadelphia 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 Eurofins Philadelphia : Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).



Jessica Kramer
Project Manager
8/11/2022 7:58:18 PM

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Laboratory Job ID: 820-5243-1
SDG: AR217165

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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Qualifiers

GC 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, 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
*1	LCS/LCSD 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
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD 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: Libbey

Job ID: 820-5243-1
SDG: AR217165

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

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Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Job ID: 820-5243-1

Laboratory: Eurofins Lubbock

Narrative

Job Narrative
820-5243-1

Receipt

The samples were received on 8/5/2022 2:02 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 -7.5°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-31731 and analytical batch 880-31678 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 8021B: Surrogate recovery for the following sample was outside control limits: CS-21 (820-5243-21). 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: CS-23 (820-5243-23) and CS-24 (820-5243-24). 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: CS-35 (820-5243-35). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-31715 and analytical batch 880-31679 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Spike compounds were inadvertently omitted during the extraction process for the matrix spike duplicate (MSD); therefore, matrix spike recoveries are unavailable for preparation batch 880-31715 and analytical batch 880-31679. The associated laboratory control sample (LCS) met acceptance criteria.

Method 8021B: Surrogate recovery for the following sample was outside control limits: CS-7 (820-5243-7). 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 880-31714 and analytical batch 880-31835 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: The matrix spike (MS) recoveries for preparation batch 880-31716 and analytical batch 880-31827 were outside control limits. Non-homogeneity is 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 samples were outside control limits: (LCS 880-31681/2-A) and (LCSD 880-31681/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-31770/2-A) and (LCSD 880-31770/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-31681 and analytical batch 880-31670 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Job ID: 820-5243-1 (Continued)**Laboratory: Eurofins Lubbock (Continued)**

batch 880-31684 and analytical batch 880-31674 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-31682/2-A), (LCSD 880-31682/3-A) and (MB 880-31682/1-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: CS-21 (820-5243-21). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside the upper control limit: CS-22 (820-5243-22), CS-23 (820-5243-23), CS-24 (820-5243-24), CS-25 (820-5243-25) and CS-26 (820-5243-26). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside the upper control limit: CS-28 (820-5243-28), CS-29 (820-5243-29) and CS-30 (820-5243-30). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside the upper control limit: CS-31 (820-5243-31), CS-32 (820-5243-32) and CS-33 (820-5243-33). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside the upper control limit: CS-35 (820-5243-35), CS-36 (820-5243-36) and CS-37 (820-5243-37). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside the upper control limit: CS-39 (820-5243-39). This sample did not contain any target analytes; 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 and precision for preparation batch 880-31645 and analytical batch 880-31905 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 laboratory control sample (LCS) associated with preparation batch 880-31643 and analytical batch 880-31909 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-31644 and analytical batch 880-31910 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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-31639 and analytical batch 880-31796 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 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-31640 and analytical batch 880-31908 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.

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Job ID: 820-5243-1 (Continued)

Laboratory: Eurofins Lubbock (Continued)

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-31642 and analytical batch 880-31939 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.

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-1

Lab Sample ID: 820-5243-1

Date Collected: 08/04/22 10:30

Matrix: Soil

Date Received: 08/05/22 14:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200		mg/Kg		08/08/22 09:51	08/09/22 11:55	1
Toluene	<0.00200	U F1	0.00200		mg/Kg		08/08/22 09:51	08/09/22 11:55	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		08/08/22 09:51	08/09/22 11:55	1
m-Xylene & p-Xylene	<0.00399	U F1	0.00399		mg/Kg		08/08/22 09:51	08/09/22 11:55	1
o-Xylene	<0.00200	U F1	0.00200		mg/Kg		08/08/22 09:51	08/09/22 11:55	1
Xylenes, Total	<0.00399	U F1	0.00399		mg/Kg		08/08/22 09:51	08/09/22 11:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	08/08/22 09:51	08/09/22 11:55	1
1,4-Difluorobenzene (Surr)	87		70 - 130	08/08/22 09:51	08/09/22 11:55	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			08/09/22 10:55	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			08/09/22 09:16	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 *1	49.9		mg/Kg		08/08/22 08:19	08/08/22 11:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/22 08:19	08/08/22 11:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/08/22 08:19	08/08/22 11:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130	08/08/22 08:19	08/08/22 11:45	1
o-Terphenyl	103		70 - 130	08/08/22 08:19	08/08/22 11:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.9	F1	4.95		mg/Kg			08/09/22 07:34	1

Client Sample ID: CS-2

Lab Sample ID: 820-5243-2

Date Collected: 08/04/22 10:32

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 09:51	08/09/22 12:15	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/08/22 09:51	08/09/22 12:15	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/08/22 09:51	08/09/22 12:15	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/08/22 09:51	08/09/22 12:15	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/08/22 09:51	08/09/22 12:15	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/08/22 09:51	08/09/22 12:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	08/08/22 09:51	08/09/22 12:15	1
1,4-Difluorobenzene (Surr)	87		70 - 130	08/08/22 09:51	08/09/22 12:15	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-2

Lab Sample ID: 820-5243-2

Date Collected: 08/04/22 10:32

Matrix: Soil

Date Received: 08/05/22 14:02

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			08/09/22 10:55	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			08/09/22 09:16	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 *1	49.9		mg/Kg		08/08/22 08:19	08/08/22 12:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/22 08:19	08/08/22 12:50	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/08/22 08:19	08/08/22 12:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				08/08/22 08:19	08/08/22 12:50	1
o-Terphenyl	100		70 - 130				08/08/22 08:19	08/08/22 12:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<25.0	U	25.0		mg/Kg			08/09/22 07:58	5

Client Sample ID: CS-3

Lab Sample ID: 820-5243-3

Date Collected: 08/04/22 10:34

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 09:51	08/09/22 12:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 09:51	08/09/22 12:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 09:51	08/09/22 12:36	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/08/22 09:51	08/09/22 12:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 09:51	08/09/22 12:36	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/08/22 09:51	08/09/22 12:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				08/08/22 09:51	08/09/22 12:36	1
1,4-Difluorobenzene (Surr)	83		70 - 130				08/08/22 09:51	08/09/22 12:36	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			08/09/22 10:55	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			08/09/22 09:16	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 *1	50.0		mg/Kg		08/08/22 08:19	08/08/22 13:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 08:19	08/08/22 13:11	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-3

Lab Sample ID: 820-5243-3

Date Collected: 08/04/22 10:34

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 08:19	08/08/22 13:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				08/08/22 08:19	08/08/22 13:11	1
o-Terphenyl	120		70 - 130				08/08/22 08:19	08/08/22 13:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44.4		4.96		mg/Kg			08/09/22 08:06	1

Client Sample ID: CS-4

Lab Sample ID: 820-5243-4

Date Collected: 08/04/22 10:36

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 09:51	08/09/22 12:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 09:51	08/09/22 12:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 09:51	08/09/22 12:56	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/08/22 09:51	08/09/22 12:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 09:51	08/09/22 12:56	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/08/22 09:51	08/09/22 12:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				08/08/22 09:51	08/09/22 12:56	1
1,4-Difluorobenzene (Surr)	79		70 - 130				08/08/22 09:51	08/09/22 12:56	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			08/09/22 10:55	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			08/09/22 09:16	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 *1	50.0		mg/Kg		08/08/22 08:19	08/08/22 13:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 08:19	08/08/22 13:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 08:19	08/08/22 13:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				08/08/22 08:19	08/08/22 13:33	1
o-Terphenyl	98		70 - 130				08/08/22 08:19	08/08/22 13:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.21		5.01		mg/Kg			08/09/22 08:29	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-5

Lab Sample ID: 820-5243-5

Date Collected: 08/04/22 10:38

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 09:51	08/09/22 13:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 09:51	08/09/22 13:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 09:51	08/09/22 13:17	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/08/22 09:51	08/09/22 13:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 09:51	08/09/22 13:17	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/08/22 09:51	08/09/22 13:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	08/08/22 09:51	08/09/22 13:17	1
1,4-Difluorobenzene (Surr)	77		70 - 130	08/08/22 09:51	08/09/22 13:17	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			08/09/22 10:55	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			08/09/22 09:16	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 *1	50.0		mg/Kg		08/08/22 08:19	08/08/22 13:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 08:19	08/08/22 13:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 08:19	08/08/22 13:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	08/08/22 08:19	08/08/22 13:55	1
o-Terphenyl	106		70 - 130	08/08/22 08:19	08/08/22 13:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.3		5.05		mg/Kg			08/09/22 22:03	1

Client Sample ID: CS-6

Lab Sample ID: 820-5243-6

Date Collected: 08/04/22 10:40

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 09:51	08/09/22 13:37	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/08/22 09:51	08/09/22 13:37	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/08/22 09:51	08/09/22 13:37	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/08/22 09:51	08/09/22 13:37	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/08/22 09:51	08/09/22 13:37	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/08/22 09:51	08/09/22 13:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	08/08/22 09:51	08/09/22 13:37	1
1,4-Difluorobenzene (Surr)	82		70 - 130	08/08/22 09:51	08/09/22 13:37	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-6

Lab Sample ID: 820-5243-6

Date Collected: 08/04/22 10:40

Matrix: Soil

Date Received: 08/05/22 14:02

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			08/09/22 10:55	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			08/09/22 09:16	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 *1	50.0		mg/Kg		08/08/22 08:19	08/08/22 14:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 08:19	08/08/22 14:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 08:19	08/08/22 14:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				08/08/22 08:19	08/08/22 14:16	1
o-Terphenyl	103		70 - 130				08/08/22 08:19	08/08/22 14:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.66		4.97		mg/Kg			08/09/22 22:11	1

Client Sample ID: CS-7

Lab Sample ID: 820-5243-7

Date Collected: 08/04/22 10:42

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 09:51	08/09/22 13:58	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/08/22 09:51	08/09/22 13:58	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/08/22 09:51	08/09/22 13:58	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/08/22 09:51	08/09/22 13:58	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/08/22 09:51	08/09/22 13:58	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/08/22 09:51	08/09/22 13:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	66	S1-	70 - 130				08/08/22 09:51	08/09/22 13:58	1
1,4-Difluorobenzene (Surr)	91		70 - 130				08/08/22 09:51	08/09/22 13:58	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			08/09/22 10:55	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			08/09/22 09:16	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 *1	50.0		mg/Kg		08/08/22 08:19	08/08/22 14:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 08:19	08/08/22 14:38	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-7

Lab Sample ID: 820-5243-7

Date Collected: 08/04/22 10:42

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 08:19	08/08/22 14:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				08/08/22 08:19	08/08/22 14:38	1
o-Terphenyl	98		70 - 130				08/08/22 08:19	08/08/22 14:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.65		4.98		mg/Kg			08/09/22 22:19	1

Client Sample ID: CS-8

Lab Sample ID: 820-5243-8

Date Collected: 08/04/22 10:44

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 09:51	08/09/22 14:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/08/22 09:51	08/09/22 14:18	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/08/22 09:51	08/09/22 14:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/08/22 09:51	08/09/22 14:18	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/08/22 09:51	08/09/22 14:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/08/22 09:51	08/09/22 14:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				08/08/22 09:51	08/09/22 14:18	1
1,4-Difluorobenzene (Surr)	82		70 - 130				08/08/22 09:51	08/09/22 14:18	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			08/09/22 10:55	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			08/09/22 09:16	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 *1	50.0		mg/Kg		08/08/22 08:19	08/08/22 15:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 08:19	08/08/22 15:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 08:19	08/08/22 15:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				08/08/22 08:19	08/08/22 15:00	1
o-Terphenyl	101		70 - 130				08/08/22 08:19	08/08/22 15:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.2		4.96		mg/Kg			08/09/22 22:27	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-9

Lab Sample ID: 820-5243-9

Date Collected: 08/04/22 10:46

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 09:51	08/09/22 14:39	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/08/22 09:51	08/09/22 14:39	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/08/22 09:51	08/09/22 14:39	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/08/22 09:51	08/09/22 14:39	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/08/22 09:51	08/09/22 14:39	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/08/22 09:51	08/09/22 14:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	08/08/22 09:51	08/09/22 14:39	1
1,4-Difluorobenzene (Surr)	90		70 - 130	08/08/22 09:51	08/09/22 14:39	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			08/09/22 10:55	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			08/09/22 09:16	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 *1	49.9		mg/Kg		08/08/22 08:19	08/08/22 15:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/22 08:19	08/08/22 15:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/08/22 08:19	08/08/22 15:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	08/08/22 08:19	08/08/22 15:22	1
o-Terphenyl	108		70 - 130	08/08/22 08:19	08/08/22 15:22	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	90.7		5.04		mg/Kg			08/09/22 09:09	1

Client Sample ID: CS-10

Lab Sample ID: 820-5243-10

Date Collected: 08/04/22 10:48

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 09:51	08/09/22 14:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 09:51	08/09/22 14:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 09:51	08/09/22 14:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/08/22 09:51	08/09/22 14:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 09:51	08/09/22 14:59	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/08/22 09:51	08/09/22 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	08/08/22 09:51	08/09/22 14:59	1
1,4-Difluorobenzene (Surr)	81		70 - 130	08/08/22 09:51	08/09/22 14:59	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-10

Lab Sample ID: 820-5243-10

Date Collected: 08/04/22 10:48

Matrix: Soil

Date Received: 08/05/22 14:02

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			08/09/22 10:55	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			08/09/22 09:16	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 *1	50.0		mg/Kg		08/08/22 08:19	08/08/22 15:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 08:19	08/08/22 15:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 08:19	08/08/22 15:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				08/08/22 08:19	08/08/22 15:44	1
o-Terphenyl	102		70 - 130				08/08/22 08:19	08/08/22 15:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	652		24.9		mg/Kg			08/09/22 09:16	5

Client Sample ID: CS-11

Lab Sample ID: 820-5243-11

Date Collected: 08/04/22 10:50

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 09:51	08/09/22 17:48	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/08/22 09:51	08/09/22 17:48	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/08/22 09:51	08/09/22 17:48	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/08/22 09:51	08/09/22 17:48	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/08/22 09:51	08/09/22 17:48	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/08/22 09:51	08/09/22 17:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				08/08/22 09:51	08/09/22 17:48	1
1,4-Difluorobenzene (Surr)	94		70 - 130				08/08/22 09:51	08/09/22 17:48	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			08/09/22 10:55	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			08/09/22 09:16	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 *1	50.0		mg/Kg		08/08/22 08:19	08/08/22 16:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 08:19	08/08/22 16:27	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-11

Lab Sample ID: 820-5243-11

Date Collected: 08/04/22 10:50

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 08:19	08/08/22 16:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				08/08/22 08:19	08/08/22 16:27	1
o-Terphenyl	98		70 - 130				08/08/22 08:19	08/08/22 16:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.5	F1 F2	4.96		mg/Kg			08/11/22 09:25	1

Client Sample ID: CS-12

Lab Sample ID: 820-5243-12

Date Collected: 08/04/22 10:52

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 09:51	08/09/22 18:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/08/22 09:51	08/09/22 18:08	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/08/22 09:51	08/09/22 18:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/08/22 09:51	08/09/22 18:08	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/08/22 09:51	08/09/22 18:08	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/08/22 09:51	08/09/22 18:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				08/08/22 09:51	08/09/22 18:08	1
1,4-Difluorobenzene (Surr)	81		70 - 130				08/08/22 09:51	08/09/22 18:08	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			08/09/22 10:55	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			08/09/22 09:16	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 *1	49.8		mg/Kg		08/08/22 08:19	08/08/22 16:49	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/08/22 08:19	08/08/22 16:49	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/08/22 08:19	08/08/22 16:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				08/08/22 08:19	08/08/22 16:49	1
o-Terphenyl	97		70 - 130				08/08/22 08:19	08/08/22 16:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.60		5.00		mg/Kg			08/11/22 09:48	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-13

Lab Sample ID: 820-5243-13

Date Collected: 08/04/22 10:54

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 09:51	08/09/22 18:29	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/08/22 09:51	08/09/22 18:29	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/08/22 09:51	08/09/22 18:29	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/08/22 09:51	08/09/22 18:29	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/08/22 09:51	08/09/22 18:29	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/08/22 09:51	08/09/22 18:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	08/08/22 09:51	08/09/22 18:29	1
1,4-Difluorobenzene (Surr)	93		70 - 130	08/08/22 09:51	08/09/22 18:29	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			08/09/22 10:55	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			08/09/22 09:16	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 *1	49.9		mg/Kg		08/08/22 08:19	08/08/22 17:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/22 08:19	08/08/22 17:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/08/22 08:19	08/08/22 17:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	08/08/22 08:19	08/08/22 17:11	1
o-Terphenyl	128		70 - 130	08/08/22 08:19	08/08/22 17:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99		mg/Kg			08/11/22 09:56	1

Client Sample ID: CS-14

Lab Sample ID: 820-5243-14

Date Collected: 08/04/22 10:56

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 09:51	08/09/22 18:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 09:51	08/09/22 18:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 09:51	08/09/22 18:49	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/08/22 09:51	08/09/22 18:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 09:51	08/09/22 18:49	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/08/22 09:51	08/09/22 18:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	08/08/22 09:51	08/09/22 18:49	1
1,4-Difluorobenzene (Surr)	81		70 - 130	08/08/22 09:51	08/09/22 18:49	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-14

Lab Sample ID: 820-5243-14

Date Collected: 08/04/22 10:56

Matrix: Soil

Date Received: 08/05/22 14:02

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			08/09/22 10:55	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			08/09/22 09:16	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 *1	50.0		mg/Kg		08/08/22 08:19	08/08/22 17:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 08:19	08/08/22 17:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 08:19	08/08/22 17:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				08/08/22 08:19	08/08/22 17:32	1
o-Terphenyl	104		70 - 130				08/08/22 08:19	08/08/22 17:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.95		4.97		mg/Kg			08/11/22 10:04	1

Client Sample ID: CS-15

Lab Sample ID: 820-5243-15

Date Collected: 08/04/22 10:58

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 09:51	08/09/22 19:10	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/08/22 09:51	08/09/22 19:10	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/08/22 09:51	08/09/22 19:10	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/08/22 09:51	08/09/22 19:10	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/08/22 09:51	08/09/22 19:10	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/08/22 09:51	08/09/22 19:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				08/08/22 09:51	08/09/22 19:10	1
1,4-Difluorobenzene (Surr)	92		70 - 130				08/08/22 09:51	08/09/22 19:10	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			08/09/22 10:55	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			08/09/22 09:16	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 *1	49.9		mg/Kg		08/08/22 08:19	08/08/22 17:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/22 08:19	08/08/22 17:54	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-15

Lab Sample ID: 820-5243-15

Date Collected: 08/04/22 10:58

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 08:19	08/08/22 17:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				08/08/22 08:19	08/08/22 17:54	1
o-Terphenyl	95		70 - 130				08/08/22 08:19	08/08/22 17:54	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	238		4.98		mg/Kg			08/11/22 10:12	1

Client Sample ID: CS-16

Lab Sample ID: 820-5243-16

Date Collected: 08/04/22 11:00

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 09:51	08/09/22 19:30	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/08/22 09:51	08/09/22 19:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/08/22 09:51	08/09/22 19:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/08/22 09:51	08/09/22 19:30	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/08/22 09:51	08/09/22 19:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/08/22 09:51	08/09/22 19:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				08/08/22 09:51	08/09/22 19:30	1
1,4-Difluorobenzene (Surr)	91		70 - 130				08/08/22 09:51	08/09/22 19:30	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			08/09/22 10:55	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			08/09/22 09:16	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 *1	49.9		mg/Kg		08/08/22 08:19	08/08/22 18:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/22 08:19	08/08/22 18:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/08/22 08:19	08/08/22 18:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				08/08/22 08:19	08/08/22 18:16	1
o-Terphenyl	95		70 - 130				08/08/22 08:19	08/08/22 18:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.1		5.00		mg/Kg			08/11/22 10:35	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-17

Lab Sample ID: 820-5243-17

Date Collected: 08/04/22 11:02

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 09:51	08/09/22 19:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 09:51	08/09/22 19:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 09:51	08/09/22 19:51	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/08/22 09:51	08/09/22 19:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 09:51	08/09/22 19:51	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/08/22 09:51	08/09/22 19:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	08/08/22 09:51	08/09/22 19:51	1
1,4-Difluorobenzene (Surr)	87		70 - 130	08/08/22 09:51	08/09/22 19:51	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			08/09/22 10:55	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			08/09/22 09:16	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 *1	50.0		mg/Kg		08/08/22 08:19	08/08/22 18:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 08:19	08/08/22 18:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 08:19	08/08/22 18:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	08/08/22 08:19	08/08/22 18:37	1
o-Terphenyl	94		70 - 130	08/08/22 08:19	08/08/22 18:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.14		4.96		mg/Kg			08/11/22 10:43	1

Client Sample ID: CS-18

Lab Sample ID: 820-5243-18

Date Collected: 08/04/22 11:04

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 09:51	08/09/22 20:11	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/08/22 09:51	08/09/22 20:11	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/08/22 09:51	08/09/22 20:11	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/08/22 09:51	08/09/22 20:11	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/08/22 09:51	08/09/22 20:11	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/08/22 09:51	08/09/22 20:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	08/08/22 09:51	08/09/22 20:11	1
1,4-Difluorobenzene (Surr)	83		70 - 130	08/08/22 09:51	08/09/22 20:11	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-18

Lab Sample ID: 820-5243-18

Date Collected: 08/04/22 11:04

Matrix: Soil

Date Received: 08/05/22 14:02

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			08/09/22 10:55	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			08/09/22 09:16	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 *1	49.9		mg/Kg		08/08/22 08:19	08/08/22 18:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/22 08:19	08/08/22 18:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/08/22 08:19	08/08/22 18:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				08/08/22 08:19	08/08/22 18:59	1
o-Terphenyl	95		70 - 130				08/08/22 08:19	08/08/22 18:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	139		25.2		mg/Kg			08/11/22 10:51	5

Client Sample ID: CS-19

Lab Sample ID: 820-5243-19

Date Collected: 08/04/22 11:06

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 09:51	08/09/22 20:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/08/22 09:51	08/09/22 20:32	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/08/22 09:51	08/09/22 20:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/08/22 09:51	08/09/22 20:32	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/08/22 09:51	08/09/22 20:32	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/08/22 09:51	08/09/22 20:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				08/08/22 09:51	08/09/22 20:32	1
1,4-Difluorobenzene (Surr)	85		70 - 130				08/08/22 09:51	08/09/22 20:32	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			08/09/22 10:55	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			08/09/22 09:16	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 *1	49.9		mg/Kg		08/08/22 08:19	08/08/22 19:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/22 08:19	08/08/22 19:21	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-19

Lab Sample ID: 820-5243-19

Date Collected: 08/04/22 11:06

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 08:19	08/08/22 19:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				08/08/22 08:19	08/08/22 19:21	1
o-Terphenyl	108		70 - 130				08/08/22 08:19	08/08/22 19:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.8		4.98		mg/Kg			08/11/22 10:59	1

Client Sample ID: CS-20

Lab Sample ID: 820-5243-20

Date Collected: 08/04/22 11:08

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 09:51	08/09/22 20:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/08/22 09:51	08/09/22 20:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/08/22 09:51	08/09/22 20:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/08/22 09:51	08/09/22 20:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/08/22 09:51	08/09/22 20:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/08/22 09:51	08/09/22 20:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				08/08/22 09:51	08/09/22 20:53	1
1,4-Difluorobenzene (Surr)	84		70 - 130				08/08/22 09:51	08/09/22 20:53	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			08/09/22 10:55	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			08/09/22 09:16	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 *1	49.8		mg/Kg		08/08/22 08:19	08/08/22 19:42	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/08/22 08:19	08/08/22 19:42	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/08/22 08:19	08/08/22 19:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				08/08/22 08:19	08/08/22 19:42	1
o-Terphenyl	127		70 - 130				08/08/22 08:19	08/08/22 19:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.5		5.00		mg/Kg			08/11/22 11:07	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-21

Lab Sample ID: 820-5243-21

Date Collected: 08/04/22 11:10

Matrix: Soil

Date Received: 08/05/22 14:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F2 F1	0.00200		mg/Kg		08/08/22 09:59	08/09/22 01:22	1
Toluene	<0.00200	U F1	0.00200		mg/Kg		08/08/22 09:59	08/09/22 01:22	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		08/08/22 09:59	08/09/22 01:22	1
m-Xylene & p-Xylene	<0.00399	U F1	0.00399		mg/Kg		08/08/22 09:59	08/09/22 01:22	1
o-Xylene	<0.00200	U F2 F1	0.00200		mg/Kg		08/08/22 09:59	08/09/22 01:22	1
Xylenes, Total	<0.00399	U F1	0.00399		mg/Kg		08/08/22 09:59	08/09/22 01:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	170	S1+	70 - 130	08/08/22 09:59	08/09/22 01:22	1
1,4-Difluorobenzene (Surr)	91		70 - 130	08/08/22 09:59	08/09/22 01:22	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 08:21	08/08/22 21:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/22 08:21	08/08/22 21:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/08/22 08:21	08/08/22 21:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	08/08/22 08:21	08/08/22 21:31	1
o-Terphenyl	146	S1+	70 - 130	08/08/22 08:21	08/08/22 21:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97		mg/Kg			08/11/22 11:15	1

Client Sample ID: CS-22

Lab Sample ID: 820-5243-22

Date Collected: 08/04/22 11:12

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 09:59	08/09/22 01:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 09:59	08/09/22 01:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 09:59	08/09/22 01:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/08/22 09:59	08/09/22 01:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 09:59	08/09/22 01:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/08/22 09:59	08/09/22 01:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130	08/08/22 09:59	08/09/22 01:42	1
1,4-Difluorobenzene (Surr)	82		70 - 130	08/08/22 09:59	08/09/22 01:42	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-22

Lab Sample ID: 820-5243-22

Date Collected: 08/04/22 11:12

Matrix: Soil

Date Received: 08/05/22 14:02

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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 08:21	08/08/22 22:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/22 08:21	08/08/22 22:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/08/22 08:21	08/08/22 22:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				08/08/22 08:21	08/08/22 22:36	1
o-Terphenyl	138	S1+	70 - 130				08/08/22 08:21	08/08/22 22:36	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.9		5.01		mg/Kg			08/11/22 11:38	1

Client Sample ID: CS-23

Lab Sample ID: 820-5243-23

Date Collected: 08/04/22 11:14

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 09:59	08/09/22 02:03	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/08/22 09:59	08/09/22 02:03	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/08/22 09:59	08/09/22 02:03	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/08/22 09:59	08/09/22 02:03	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/08/22 09:59	08/09/22 02:03	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/08/22 09:59	08/09/22 02:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130				08/08/22 09:59	08/09/22 02:03	1
1,4-Difluorobenzene (Surr)	91		70 - 130				08/08/22 09:59	08/09/22 02:03	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 08:21	08/08/22 22:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 08:21	08/08/22 22:58	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-23

Lab Sample ID: 820-5243-23

Date Collected: 08/04/22 11:14

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 08:21	08/08/22 22:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130				08/08/22 08:21	08/08/22 22:58	1
o-Terphenyl	172	S1+	70 - 130				08/08/22 08:21	08/08/22 22:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.86		4.99		mg/Kg			08/11/22 11:46	1

Client Sample ID: CS-24

Lab Sample ID: 820-5243-24

Date Collected: 08/04/22 11:16

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 09:59	08/09/22 02:24	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/08/22 09:59	08/09/22 02:24	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/08/22 09:59	08/09/22 02:24	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/08/22 09:59	08/09/22 02:24	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/08/22 09:59	08/09/22 02:24	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/08/22 09:59	08/09/22 02:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	150	S1+	70 - 130				08/08/22 09:59	08/09/22 02:24	1
1,4-Difluorobenzene (Surr)	78		70 - 130				08/08/22 09:59	08/09/22 02:24	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 08:21	08/08/22 23:20	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/08/22 08:21	08/08/22 23:20	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/08/22 08:21	08/08/22 23:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				08/08/22 08:21	08/08/22 23:20	1
o-Terphenyl	155	S1+	70 - 130				08/08/22 08:21	08/08/22 23:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.1		5.04		mg/Kg			08/11/22 12:10	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-25

Lab Sample ID: 820-5243-25

Date Collected: 08/04/22 11:18

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 09:59	08/09/22 02:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 09:59	08/09/22 02:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 09:59	08/09/22 02:44	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/08/22 09:59	08/09/22 02:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 09:59	08/09/22 02:44	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/08/22 09:59	08/09/22 02:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	08/08/22 09:59	08/09/22 02:44	1
1,4-Difluorobenzene (Surr)	104		70 - 130	08/08/22 09:59	08/09/22 02:44	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 08:21	08/08/22 23:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 08:21	08/08/22 23:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 08:21	08/08/22 23:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	08/08/22 08:21	08/08/22 23:42	1
o-Terphenyl	142	S1+	70 - 130	08/08/22 08:21	08/08/22 23:42	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	834		24.9		mg/Kg			08/11/22 12:18	5

Client Sample ID: CS-26

Lab Sample ID: 820-5243-26

Date Collected: 08/04/22 11:20

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 09:59	08/09/22 03:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/08/22 09:59	08/09/22 03:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/08/22 09:59	08/09/22 03:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/08/22 09:59	08/09/22 03:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/08/22 09:59	08/09/22 03:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/08/22 09:59	08/09/22 03:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	08/08/22 09:59	08/09/22 03:05	1
1,4-Difluorobenzene (Surr)	112		70 - 130	08/08/22 09:59	08/09/22 03:05	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-26

Lab Sample ID: 820-5243-26

Date Collected: 08/04/22 11:20

Matrix: Soil

Date Received: 08/05/22 14:02

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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 08:21	08/09/22 00:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 08:21	08/09/22 00:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 08:21	08/09/22 00:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				08/08/22 08:21	08/09/22 00:03	1
o-Terphenyl	155	S1+	70 - 130				08/08/22 08:21	08/09/22 00:03	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	178		4.95		mg/Kg			08/11/22 12:25	1

Client Sample ID: CS-27

Lab Sample ID: 820-5243-27

Date Collected: 08/04/22 11:22

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 09:59	08/09/22 03:25	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/08/22 09:59	08/09/22 03:25	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/08/22 09:59	08/09/22 03:25	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/08/22 09:59	08/09/22 03:25	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/08/22 09:59	08/09/22 03:25	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/08/22 09:59	08/09/22 03:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				08/08/22 09:59	08/09/22 03:25	1
1,4-Difluorobenzene (Surr)	99		70 - 130				08/08/22 09:59	08/09/22 03:25	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 08:21	08/09/22 00:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 08:21	08/09/22 00:24	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-27

Lab Sample ID: 820-5243-27

Date Collected: 08/04/22 11:22

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 08:21	08/09/22 00:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				08/08/22 08:21	08/09/22 00:24	1
o-Terphenyl	123		70 - 130				08/08/22 08:21	08/09/22 00:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.5		4.95		mg/Kg			08/11/22 12:33	1

Client Sample ID: CS-28

Lab Sample ID: 820-5243-28

Date Collected: 08/04/22 11:24

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 09:59	08/09/22 03:46	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/08/22 09:59	08/09/22 03:46	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/08/22 09:59	08/09/22 03:46	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/08/22 09:59	08/09/22 03:46	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/08/22 09:59	08/09/22 03:46	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/08/22 09:59	08/09/22 03:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				08/08/22 09:59	08/09/22 03:46	1
1,4-Difluorobenzene (Surr)	105		70 - 130				08/08/22 09:59	08/09/22 03:46	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 08:21	08/09/22 00:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 08:21	08/09/22 00:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 08:21	08/09/22 00:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				08/08/22 08:21	08/09/22 00:45	1
o-Terphenyl	147	S1+	70 - 130				08/08/22 08:21	08/09/22 00:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.8		5.00		mg/Kg			08/11/22 12:41	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-29

Lab Sample ID: 820-5243-29

Date Collected: 08/04/22 11:26

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 09:59	08/09/22 08:32	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/08/22 09:59	08/09/22 08:32	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/08/22 09:59	08/09/22 08:32	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/08/22 09:59	08/09/22 08:32	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/08/22 09:59	08/09/22 08:32	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/08/22 09:59	08/09/22 08:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	08/08/22 09:59	08/09/22 08:32	1
1,4-Difluorobenzene (Surr)	94		70 - 130	08/08/22 09:59	08/09/22 08:32	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 08:21	08/09/22 01:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/22 08:21	08/09/22 01:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/08/22 08:21	08/09/22 01:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130	08/08/22 08:21	08/09/22 01:06	1
o-Terphenyl	171	S1+	70 - 130	08/08/22 08:21	08/09/22 01:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.1		4.99		mg/Kg			08/11/22 12:49	1

Client Sample ID: CS-30

Lab Sample ID: 820-5243-30

Date Collected: 08/04/22 11:28

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 09:59	08/09/22 08:52	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/08/22 09:59	08/09/22 08:52	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/08/22 09:59	08/09/22 08:52	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/08/22 09:59	08/09/22 08:52	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/08/22 09:59	08/09/22 08:52	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/08/22 09:59	08/09/22 08:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	08/08/22 09:59	08/09/22 08:52	1
1,4-Difluorobenzene (Surr)	94		70 - 130	08/08/22 09:59	08/09/22 08:52	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-30

Lab Sample ID: 820-5243-30

Date Collected: 08/04/22 11:28

Matrix: Soil

Date Received: 08/05/22 14:02

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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 08:21	08/09/22 01:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 08:21	08/09/22 01:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 08:21	08/09/22 01:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				08/08/22 08:21	08/09/22 01:28	1
o-Terphenyl	146	S1+	70 - 130				08/08/22 08:21	08/09/22 01:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.34		5.04		mg/Kg			08/11/22 12:57	1

Client Sample ID: CS-31

Lab Sample ID: 820-5243-31

Date Collected: 08/04/22 11:30

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 09:59	08/09/22 09:56	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/08/22 09:59	08/09/22 09:56	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/08/22 09:59	08/09/22 09:56	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/08/22 09:59	08/09/22 09:56	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/08/22 09:59	08/09/22 09:56	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/08/22 09:59	08/09/22 09:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				08/08/22 09:59	08/09/22 09:56	1
1,4-Difluorobenzene (Surr)	110		70 - 130				08/08/22 09:59	08/09/22 09:56	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 08:21	08/09/22 02:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 08:21	08/09/22 02:10	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-31

Lab Sample ID: 820-5243-31

Date Collected: 08/04/22 11:30

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 08:21	08/09/22 02:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				08/08/22 08:21	08/09/22 02:10	1
o-Terphenyl	154	S1+	70 - 130				08/08/22 08:21	08/09/22 02:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.08		4.99		mg/Kg			08/10/22 08:59	1

Client Sample ID: CS-32

Lab Sample ID: 820-5243-32

Date Collected: 08/04/22 11:32

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 09:59	08/09/22 10:17	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/08/22 09:59	08/09/22 10:17	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/08/22 09:59	08/09/22 10:17	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/08/22 09:59	08/09/22 10:17	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/08/22 09:59	08/09/22 10:17	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/08/22 09:59	08/09/22 10:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				08/08/22 09:59	08/09/22 10:17	1
1,4-Difluorobenzene (Surr)	115		70 - 130				08/08/22 09:59	08/09/22 10:17	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 08:21	08/09/22 02:31	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/08/22 08:21	08/09/22 02:31	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/08/22 08:21	08/09/22 02:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				08/08/22 08:21	08/09/22 02:31	1
o-Terphenyl	159	S1+	70 - 130				08/08/22 08:21	08/09/22 02:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	424		25.3		mg/Kg			08/10/22 09:26	5

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-33

Lab Sample ID: 820-5243-33

Date Collected: 08/04/22 11:34

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 09:59	08/09/22 10:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/08/22 09:59	08/09/22 10:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/08/22 09:59	08/09/22 10:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/08/22 09:59	08/09/22 10:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/08/22 09:59	08/09/22 10:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/08/22 09:59	08/09/22 10:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	08/08/22 09:59	08/09/22 10:37	1
1,4-Difluorobenzene (Surr)	114		70 - 130	08/08/22 09:59	08/09/22 10:37	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 08:21	08/09/22 02:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/22 08:21	08/09/22 02:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/08/22 08:21	08/09/22 02:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	08/08/22 08:21	08/09/22 02:52	1
o-Terphenyl	145	S1+	70 - 130	08/08/22 08:21	08/09/22 02:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1940		24.9		mg/Kg			08/10/22 09:36	5

Client Sample ID: CS-34

Lab Sample ID: 820-5243-34

Date Collected: 08/04/22 11:36

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 09:59	08/09/22 10:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 09:59	08/09/22 10:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 09:59	08/09/22 10:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/08/22 09:59	08/09/22 10:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 09:59	08/09/22 10:58	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/08/22 09:59	08/09/22 10:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	08/08/22 09:59	08/09/22 10:58	1
1,4-Difluorobenzene (Surr)	92		70 - 130	08/08/22 09:59	08/09/22 10:58	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-34

Lab Sample ID: 820-5243-34

Date Collected: 08/04/22 11:36

Matrix: Soil

Date Received: 08/05/22 14:02

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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 08:21	08/09/22 03:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 08:21	08/09/22 03:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 08:21	08/09/22 03:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				08/08/22 08:21	08/09/22 03:13	1
o-Terphenyl	127		70 - 130				08/08/22 08:21	08/09/22 03:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62.1		4.95		mg/Kg			08/10/22 09:45	1

Client Sample ID: CS-35

Lab Sample ID: 820-5243-35

Date Collected: 08/04/22 11:38

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 09:59	08/09/22 11:19	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/08/22 09:59	08/09/22 11:19	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/08/22 09:59	08/09/22 11:19	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/08/22 09:59	08/09/22 11:19	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/08/22 09:59	08/09/22 11:19	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/08/22 09:59	08/09/22 11:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	148	S1+	70 - 130				08/08/22 09:59	08/09/22 11:19	1
1,4-Difluorobenzene (Surr)	87		70 - 130				08/08/22 09:59	08/09/22 11:19	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 08:21	08/09/22 03:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/22 08:21	08/09/22 03:34	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-35

Lab Sample ID: 820-5243-35

Date Collected: 08/04/22 11:38

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 08:21	08/09/22 03:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130				08/08/22 08:21	08/09/22 03:34	1
o-Terphenyl	183	S1+	70 - 130				08/08/22 08:21	08/09/22 03:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.1		5.04		mg/Kg			08/10/22 09:54	1

Client Sample ID: CS-36

Lab Sample ID: 820-5243-36

Date Collected: 08/04/22 11:40

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 09:59	08/09/22 11:40	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/08/22 09:59	08/09/22 11:40	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/08/22 09:59	08/09/22 11:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/08/22 09:59	08/09/22 11:40	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/08/22 09:59	08/09/22 11:40	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/08/22 09:59	08/09/22 11:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				08/08/22 09:59	08/09/22 11:40	1
1,4-Difluorobenzene (Surr)	106		70 - 130				08/08/22 09:59	08/09/22 11:40	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 08:21	08/09/22 03:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/22 08:21	08/09/22 03:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/08/22 08:21	08/09/22 03:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				08/08/22 08:21	08/09/22 03:55	1
o-Terphenyl	133	S1+	70 - 130				08/08/22 08:21	08/09/22 03:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.24		4.97		mg/Kg			08/10/22 10:22	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-37

Lab Sample ID: 820-5243-37

Date Collected: 08/04/22 11:42

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 09:59	08/09/22 12:01	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/08/22 09:59	08/09/22 12:01	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/08/22 09:59	08/09/22 12:01	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/08/22 09:59	08/09/22 12:01	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/08/22 09:59	08/09/22 12:01	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/08/22 09:59	08/09/22 12:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130	08/08/22 09:59	08/09/22 12:01	1
1,4-Difluorobenzene (Surr)	93		70 - 130	08/08/22 09:59	08/09/22 12:01	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 08:21	08/09/22 04:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 08:21	08/09/22 04:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 08:21	08/09/22 04:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	08/08/22 08:21	08/09/22 04:16	1
o-Terphenyl	151	S1+	70 - 130	08/08/22 08:21	08/09/22 04:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.19		4.95		mg/Kg			08/10/22 10:31	1

Client Sample ID: CS-38

Lab Sample ID: 820-5243-38

Date Collected: 08/04/22 11:44

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 09:59	08/09/22 12:21	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/08/22 09:59	08/09/22 12:21	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/08/22 09:59	08/09/22 12:21	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/08/22 09:59	08/09/22 12:21	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/08/22 09:59	08/09/22 12:21	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/08/22 09:59	08/09/22 12:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	08/08/22 09:59	08/09/22 12:21	1
1,4-Difluorobenzene (Surr)	100		70 - 130	08/08/22 09:59	08/09/22 12:21	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-38

Lab Sample ID: 820-5243-38

Date Collected: 08/04/22 11:44

Matrix: Soil

Date Received: 08/05/22 14:02

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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 08:21	08/09/22 04:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/22 08:21	08/09/22 04:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/08/22 08:21	08/09/22 04:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130				08/08/22 08:21	08/09/22 04:37	1
o-Terphenyl	118		70 - 130				08/08/22 08:21	08/09/22 04:37	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	436		5.00		mg/Kg			08/10/22 13:17	1

Client Sample ID: CS-39

Lab Sample ID: 820-5243-39

Date Collected: 08/04/22 11:46

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 09:59	08/09/22 12:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 09:59	08/09/22 12:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 09:59	08/09/22 12:42	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/08/22 09:59	08/09/22 12:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 09:59	08/09/22 12:42	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/08/22 09:59	08/09/22 12:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				08/08/22 09:59	08/09/22 12:42	1
1,4-Difluorobenzene (Surr)	110		70 - 130				08/08/22 09:59	08/09/22 12:42	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 08:21	08/09/22 04:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/22 08:21	08/09/22 04:58	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-39

Lab Sample ID: 820-5243-39

Date Collected: 08/04/22 11:46

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 08:21	08/09/22 04:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				08/08/22 08:21	08/09/22 04:58	1
o-Terphenyl	139	S1+	70 - 130				08/08/22 08:21	08/09/22 04:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3380		49.9		mg/Kg			08/10/22 10:49	10

Client Sample ID: CS-40

Lab Sample ID: 820-5243-40

Date Collected: 08/04/22 11:48

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 09:59	08/09/22 13:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/08/22 09:59	08/09/22 13:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/08/22 09:59	08/09/22 13:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/08/22 09:59	08/09/22 13:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/08/22 09:59	08/09/22 13:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/08/22 09:59	08/09/22 13:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				08/08/22 09:59	08/09/22 13:03	1
1,4-Difluorobenzene (Surr)	113		70 - 130				08/08/22 09:59	08/09/22 13:03	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 08:21	08/09/22 05:20	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/08/22 08:21	08/09/22 05:20	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/08/22 08:21	08/09/22 05:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				08/08/22 08:21	08/09/22 05:20	1
o-Terphenyl	126		70 - 130				08/08/22 08:21	08/09/22 05:20	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.0		5.00		mg/Kg			08/10/22 13:26	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-41

Lab Sample ID: 820-5243-41

Date Collected: 08/04/22 11:50

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:06	08/09/22 13:17	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/08/22 10:06	08/09/22 13:17	1
Ethylbenzene	<0.00201	U F1	0.00201		mg/Kg		08/08/22 10:06	08/09/22 13:17	1
m-Xylene & p-Xylene	<0.00402	U F1	0.00402		mg/Kg		08/08/22 10:06	08/09/22 13:17	1
o-Xylene	<0.00201	U F1	0.00201		mg/Kg		08/08/22 10:06	08/09/22 13:17	1
Xylenes, Total	<0.00402	U F1	0.00402		mg/Kg		08/08/22 10:06	08/09/22 13:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	08/08/22 10:06	08/09/22 13:17	1
1,4-Difluorobenzene (Surr)	104		70 - 130	08/08/22 10:06	08/09/22 13:17	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 08:22	08/08/22 11:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/22 08:22	08/08/22 11:19	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/08/22 08:22	08/08/22 11:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	08/08/22 08:22	08/08/22 11:19	1
o-Terphenyl	90		70 - 130	08/08/22 08:22	08/08/22 11:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.91		5.00		mg/Kg			08/10/22 11:08	1

Client Sample ID: CS-42

Lab Sample ID: 820-5243-42

Date Collected: 08/04/22 11:52

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:06	08/09/22 13:38	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/08/22 10:06	08/09/22 13:38	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/08/22 10:06	08/09/22 13:38	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/08/22 10:06	08/09/22 13:38	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/08/22 10:06	08/09/22 13:38	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/08/22 10:06	08/09/22 13:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	08/08/22 10:06	08/09/22 13:38	1
1,4-Difluorobenzene (Surr)	108		70 - 130	08/08/22 10:06	08/09/22 13:38	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-42

Lab Sample ID: 820-5243-42

Date Collected: 08/04/22 11:52

Matrix: Soil

Date Received: 08/05/22 14:02

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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 08:22	08/08/22 12:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/22 08:22	08/08/22 12:24	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/08/22 08:22	08/08/22 12:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				08/08/22 08:22	08/08/22 12:24	1
o-Terphenyl	99		70 - 130				08/08/22 08:22	08/08/22 12:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	98.5		4.99		mg/Kg			08/10/22 11:35	1

Client Sample ID: CS-43

Lab Sample ID: 820-5243-43

Date Collected: 08/04/22 11:54

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:06	08/09/22 13:58	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/08/22 10:06	08/09/22 13:58	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/08/22 10:06	08/09/22 13:58	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/08/22 10:06	08/09/22 13:58	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/08/22 10:06	08/09/22 13:58	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/08/22 10:06	08/09/22 13:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				08/08/22 10:06	08/09/22 13:58	1
1,4-Difluorobenzene (Surr)	100		70 - 130				08/08/22 10:06	08/09/22 13:58	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 08:22	08/08/22 12:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 08:22	08/08/22 12:45	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-43

Lab Sample ID: 820-5243-43

Date Collected: 08/04/22 11:54

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 08:22	08/08/22 12:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				08/08/22 08:22	08/08/22 12:45	1
o-Terphenyl	98		70 - 130				08/08/22 08:22	08/08/22 12:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	229		24.9		mg/Kg			08/10/22 11:45	5

Client Sample ID: CS-44

Lab Sample ID: 820-5243-44

Date Collected: 08/04/22 11:56

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:06	08/09/22 14:19	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/08/22 10:06	08/09/22 14:19	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/08/22 10:06	08/09/22 14:19	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/08/22 10:06	08/09/22 14:19	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/08/22 10:06	08/09/22 14:19	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/08/22 10:06	08/09/22 14:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				08/08/22 10:06	08/09/22 14:19	1
1,4-Difluorobenzene (Surr)	107		70 - 130				08/08/22 10:06	08/09/22 14:19	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 08:22	08/08/22 13:07	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/08/22 08:22	08/08/22 13:07	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/08/22 08:22	08/08/22 13:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130				08/08/22 08:22	08/08/22 13:07	1
o-Terphenyl	88		70 - 130				08/08/22 08:22	08/08/22 13:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.75		5.05		mg/Kg			08/10/22 12:12	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-45

Lab Sample ID: 820-5243-45

Date Collected: 08/04/22 11:58

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:06	08/09/22 14:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:06	08/09/22 14:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:06	08/09/22 14:39	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/08/22 10:06	08/09/22 14:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:06	08/09/22 14:39	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/08/22 10:06	08/09/22 14:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	08/08/22 10:06	08/09/22 14:39	1
1,4-Difluorobenzene (Surr)	105		70 - 130	08/08/22 10:06	08/09/22 14:39	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 08:22	08/08/22 13:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 08:22	08/08/22 13:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 08:22	08/08/22 13:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130	08/08/22 08:22	08/08/22 13:29	1
o-Terphenyl	95		70 - 130	08/08/22 08:22	08/08/22 13:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51.3		4.97		mg/Kg			08/10/22 12:22	1

Client Sample ID: CS-46

Lab Sample ID: 820-5243-46

Date Collected: 08/04/22 12:00

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:06	08/09/22 15:00	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:06	08/09/22 15:00	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:06	08/09/22 15:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/08/22 10:06	08/09/22 15:00	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:06	08/09/22 15:00	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/08/22 10:06	08/09/22 15:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	08/08/22 10:06	08/09/22 15:00	1
1,4-Difluorobenzene (Surr)	110		70 - 130	08/08/22 10:06	08/09/22 15:00	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-46

Lab Sample ID: 820-5243-46

Date Collected: 08/04/22 12:00

Matrix: Soil

Date Received: 08/05/22 14:02

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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 08:22	08/08/22 13:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 08:22	08/08/22 13:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 08:22	08/08/22 13:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130				08/08/22 08:22	08/08/22 13:50	1
o-Terphenyl	89		70 - 130				08/08/22 08:22	08/08/22 13:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U	4.98		mg/Kg			08/10/22 12:31	1

Client Sample ID: CS-47

Lab Sample ID: 820-5243-47

Date Collected: 08/04/22 12:02

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:06	08/09/22 15:20	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:06	08/09/22 15:20	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:06	08/09/22 15:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/08/22 10:06	08/09/22 15:20	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:06	08/09/22 15:20	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/08/22 10:06	08/09/22 15:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				08/08/22 10:06	08/09/22 15:20	1
1,4-Difluorobenzene (Surr)	106		70 - 130				08/08/22 10:06	08/09/22 15:20	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 08:22	08/08/22 14:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 08:22	08/08/22 14:12	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-47

Lab Sample ID: 820-5243-47

Date Collected: 08/04/22 12:02

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 08:22	08/08/22 14:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130				08/08/22 08:22	08/08/22 14:12	1
o-Terphenyl	86		70 - 130				08/08/22 08:22	08/08/22 14:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	42.8		4.99		mg/Kg			08/10/22 12:40	1

Client Sample ID: CS-48

Lab Sample ID: 820-5243-48

Date Collected: 08/04/22 12:04

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:06	08/09/22 15:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:06	08/09/22 15:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:06	08/09/22 15:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/08/22 10:06	08/09/22 15:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:06	08/09/22 15:41	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/08/22 10:06	08/09/22 15:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				08/08/22 10:06	08/09/22 15:41	1
1,4-Difluorobenzene (Surr)	104		70 - 130				08/08/22 10:06	08/09/22 15:41	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 08:22	08/08/22 14:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 08:22	08/08/22 14:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 08:22	08/08/22 14:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130				08/08/22 08:22	08/08/22 14:34	1
o-Terphenyl	93		70 - 130				08/08/22 08:22	08/08/22 14:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.2		4.95		mg/Kg			08/10/22 12:49	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-49

Lab Sample ID: 820-5243-49

Date Collected: 08/04/22 12:06

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:06	08/09/22 16:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:06	08/09/22 16:01	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:06	08/09/22 16:01	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/08/22 10:06	08/09/22 16:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:06	08/09/22 16:01	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/08/22 10:06	08/09/22 16:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	08/08/22 10:06	08/09/22 16:01	1
1,4-Difluorobenzene (Surr)	108		70 - 130	08/08/22 10:06	08/09/22 16:01	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 08:22	08/08/22 14:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/22 08:22	08/08/22 14:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/08/22 08:22	08/08/22 14:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130	08/08/22 08:22	08/08/22 14:55	1
o-Terphenyl	101		70 - 130	08/08/22 08:22	08/08/22 14:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	219		5.00		mg/Kg			08/10/22 12:59	1

Client Sample ID: CS-50

Lab Sample ID: 820-5243-50

Date Collected: 08/04/22 12:08

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:06	08/09/22 16:22	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:06	08/09/22 16:22	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:06	08/09/22 16:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/08/22 10:06	08/09/22 16:22	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:06	08/09/22 16:22	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/08/22 10:06	08/09/22 16:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	08/08/22 10:06	08/09/22 16:22	1
1,4-Difluorobenzene (Surr)	103		70 - 130	08/08/22 10:06	08/09/22 16:22	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-50

Lab Sample ID: 820-5243-50

Date Collected: 08/04/22 12:08

Matrix: Soil

Date Received: 08/05/22 14:02

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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 08:22	08/08/22 15:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 08:22	08/08/22 15:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 08:22	08/08/22 15:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				08/08/22 08:22	08/08/22 15:16	1
o-Terphenyl	100		70 - 130				08/08/22 08:22	08/08/22 15:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.8		4.98		mg/Kg			08/10/22 13:08	1

Client Sample ID: CS-51

Lab Sample ID: 820-5243-51

Date Collected: 08/04/22 12:10

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:06	08/09/22 18:13	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/08/22 10:06	08/09/22 18:13	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/08/22 10:06	08/09/22 18:13	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/08/22 10:06	08/09/22 18:13	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/08/22 10:06	08/09/22 18:13	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/08/22 10:06	08/09/22 18:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				08/08/22 10:06	08/09/22 18:13	1
1,4-Difluorobenzene (Surr)	99		70 - 130				08/08/22 10:06	08/09/22 18:13	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 08:22	08/08/22 16:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 08:22	08/08/22 16:00	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-51

Lab Sample ID: 820-5243-51

Date Collected: 08/04/22 12:10

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 08:22	08/08/22 16:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130				08/08/22 08:22	08/08/22 16:00	1
o-Terphenyl	85		70 - 130				08/08/22 08:22	08/08/22 16:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.5	F1 F2	5.00		mg/Kg			08/10/22 17:11	1

Client Sample ID: CS-52

Lab Sample ID: 820-5243-52

Date Collected: 08/04/22 12:12

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:06	08/09/22 18:33	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/08/22 10:06	08/09/22 18:33	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/08/22 10:06	08/09/22 18:33	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/08/22 10:06	08/09/22 18:33	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/08/22 10:06	08/09/22 18:33	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/08/22 10:06	08/09/22 18:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				08/08/22 10:06	08/09/22 18:33	1
1,4-Difluorobenzene (Surr)	105		70 - 130				08/08/22 10:06	08/09/22 18:33	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 08:22	08/08/22 16:21	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/08/22 08:22	08/08/22 16:21	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/08/22 08:22	08/08/22 16:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130				08/08/22 08:22	08/08/22 16:21	1
o-Terphenyl	87		70 - 130				08/08/22 08:22	08/08/22 16:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.9		4.99		mg/Kg			08/10/22 17:35	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-53

Lab Sample ID: 820-5243-53

Date Collected: 08/04/22 12:14

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:06	08/09/22 18:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:06	08/09/22 18:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:06	08/09/22 18:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/08/22 10:06	08/09/22 18:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:06	08/09/22 18:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/08/22 10:06	08/09/22 18:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	08/08/22 10:06	08/09/22 18:54	1
1,4-Difluorobenzene (Surr)	106		70 - 130	08/08/22 10:06	08/09/22 18:54	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 08:22	08/08/22 16:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/22 08:22	08/08/22 16:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/08/22 08:22	08/08/22 16:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130	08/08/22 08:22	08/08/22 16:43	1
o-Terphenyl	89		70 - 130	08/08/22 08:22	08/08/22 16:43	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	67.9		4.98		mg/Kg			08/10/22 17:42	1

Client Sample ID: CS-54

Lab Sample ID: 820-5243-54

Date Collected: 08/04/22 12:16

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:06	08/09/22 19:14	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/08/22 10:06	08/09/22 19:14	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/08/22 10:06	08/09/22 19:14	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/08/22 10:06	08/09/22 19:14	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/08/22 10:06	08/09/22 19:14	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/08/22 10:06	08/09/22 19:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	08/08/22 10:06	08/09/22 19:14	1
1,4-Difluorobenzene (Surr)	105		70 - 130	08/08/22 10:06	08/09/22 19:14	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-54

Lab Sample ID: 820-5243-54

Date Collected: 08/04/22 12:16

Matrix: Soil

Date Received: 08/05/22 14:02

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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 08:22	08/08/22 17:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/22 08:22	08/08/22 17:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/08/22 08:22	08/08/22 17:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130				08/08/22 08:22	08/08/22 17:04	1
o-Terphenyl	85		70 - 130				08/08/22 08:22	08/08/22 17:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.9		4.95		mg/Kg			08/10/22 17:50	1

Client Sample ID: CS-55

Lab Sample ID: 820-5243-55

Date Collected: 08/04/22 12:18

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:06	08/09/22 19:35	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/08/22 10:06	08/09/22 19:35	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/08/22 10:06	08/09/22 19:35	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/08/22 10:06	08/09/22 19:35	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/08/22 10:06	08/09/22 19:35	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/08/22 10:06	08/09/22 19:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				08/08/22 10:06	08/09/22 19:35	1
1,4-Difluorobenzene (Surr)	100		70 - 130				08/08/22 10:06	08/09/22 19:35	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 08:22	08/08/22 17:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/22 08:22	08/08/22 17:26	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-55

Lab Sample ID: 820-5243-55

Date Collected: 08/04/22 12:18

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 08:22	08/08/22 17:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				08/08/22 08:22	08/08/22 17:26	1
o-Terphenyl	92		70 - 130				08/08/22 08:22	08/08/22 17:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130		4.97		mg/Kg			08/10/22 17:58	1

Client Sample ID: CS-56

Lab Sample ID: 820-5243-56

Date Collected: 08/04/22 12:20

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:06	08/09/22 19:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:06	08/09/22 19:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:06	08/09/22 19:55	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/08/22 10:06	08/09/22 19:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:06	08/09/22 19:55	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/08/22 10:06	08/09/22 19:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				08/08/22 10:06	08/09/22 19:55	1
1,4-Difluorobenzene (Surr)	99		70 - 130				08/08/22 10:06	08/09/22 19:55	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 08:22	08/08/22 17:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 08:22	08/08/22 17:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 08:22	08/08/22 17:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				08/08/22 08:22	08/08/22 17:47	1
o-Terphenyl	102		70 - 130				08/08/22 08:22	08/08/22 17:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	68.9		4.99		mg/Kg			08/10/22 18:22	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-57

Lab Sample ID: 820-5243-57

Date Collected: 08/04/22 12:22

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:06	08/09/22 20:15	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/08/22 10:06	08/09/22 20:15	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/08/22 10:06	08/09/22 20:15	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		08/08/22 10:06	08/09/22 20:15	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/08/22 10:06	08/09/22 20:15	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		08/08/22 10:06	08/09/22 20:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	08/08/22 10:06	08/09/22 20:15	1
1,4-Difluorobenzene (Surr)	99		70 - 130	08/08/22 10:06	08/09/22 20:15	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 08:22	08/08/22 18:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 08:22	08/08/22 18:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 08:22	08/08/22 18:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130	08/08/22 08:22	08/08/22 18:09	1
o-Terphenyl	93		70 - 130	08/08/22 08:22	08/08/22 18:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.4		5.00		mg/Kg			08/10/22 18:30	1

Client Sample ID: CS-58

Lab Sample ID: 820-5243-58

Date Collected: 08/04/22 12:24

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:06	08/09/22 20:36	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/08/22 10:06	08/09/22 20:36	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/08/22 10:06	08/09/22 20:36	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/08/22 10:06	08/09/22 20:36	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/08/22 10:06	08/09/22 20:36	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/08/22 10:06	08/09/22 20:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	08/08/22 10:06	08/09/22 20:36	1
1,4-Difluorobenzene (Surr)	103		70 - 130	08/08/22 10:06	08/09/22 20:36	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-58

Lab Sample ID: 820-5243-58

Date Collected: 08/04/22 12:24

Matrix: Soil

Date Received: 08/05/22 14:02

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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 08:22	08/08/22 18:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 08:22	08/08/22 18:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 08:22	08/08/22 18:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130				08/08/22 08:22	08/08/22 18:31	1
o-Terphenyl	93		70 - 130				08/08/22 08:22	08/08/22 18:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	104		4.95		mg/Kg			08/10/22 18:37	1

Client Sample ID: CS-59

Lab Sample ID: 820-5243-59

Date Collected: 08/04/22 12:26

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:06	08/09/22 20:56	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:06	08/09/22 20:56	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:06	08/09/22 20:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/08/22 10:06	08/09/22 20:56	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:06	08/09/22 20:56	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/08/22 10:06	08/09/22 20:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				08/08/22 10:06	08/09/22 20:56	1
1,4-Difluorobenzene (Surr)	104		70 - 130				08/08/22 10:06	08/09/22 20:56	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 08:22	08/08/22 18:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 08:22	08/08/22 18:52	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-59

Lab Sample ID: 820-5243-59

Date Collected: 08/04/22 12:26

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 08:22	08/08/22 18:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130				08/08/22 08:22	08/08/22 18:52	1
o-Terphenyl	90		70 - 130				08/08/22 08:22	08/08/22 18:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	659		50.5		mg/Kg			08/10/22 18:45	10

Client Sample ID: CS-60

Lab Sample ID: 820-5243-60

Date Collected: 08/04/22 12:28

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:06	08/09/22 21:17	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/08/22 10:06	08/09/22 21:17	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/08/22 10:06	08/09/22 21:17	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/08/22 10:06	08/09/22 21:17	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/08/22 10:06	08/09/22 21:17	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/08/22 10:06	08/09/22 21:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				08/08/22 10:06	08/09/22 21:17	1
1,4-Difluorobenzene (Surr)	96		70 - 130				08/08/22 10:06	08/09/22 21:17	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 08:22	08/08/22 19:13	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/08/22 08:22	08/08/22 19:13	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/08/22 08:22	08/08/22 19:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130				08/08/22 08:22	08/08/22 19:13	1
o-Terphenyl	85		70 - 130				08/08/22 08:22	08/08/22 19:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.99		4.97		mg/Kg			08/10/22 18:53	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-61

Lab Sample ID: 820-5243-61

Date Collected: 08/04/22 12:30

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:13	08/09/22 16:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:13	08/09/22 16:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:13	08/09/22 16:28	1
m-Xylene & p-Xylene	0.00483		0.00398		mg/Kg		08/08/22 10:13	08/09/22 16:28	1
o-Xylene	0.00214		0.00199		mg/Kg		08/08/22 10:13	08/09/22 16:28	1
Xylenes, Total	0.00697		0.00398		mg/Kg		08/08/22 10:13	08/09/22 16:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	08/08/22 10:13	08/09/22 16:28	1
1,4-Difluorobenzene (Surr)	103		70 - 130	08/08/22 10:13	08/09/22 16:28	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00697		0.00398		mg/Kg			08/09/22 10:55	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			08/09/22 09:16	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 *1	49.9		mg/Kg		08/08/22 08:23	08/08/22 11:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/22 08:23	08/08/22 11:19	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/08/22 08:23	08/08/22 11:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				08/08/22 08:23	08/08/22 11:19	1
o-Terphenyl	110		70 - 130				08/08/22 08:23	08/08/22 11:19	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.4		5.04		mg/Kg			08/10/22 19:01	1

Client Sample ID: CS-62

Lab Sample ID: 820-5243-62

Date Collected: 08/04/22 12:32

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:13	08/09/22 16:49	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/08/22 10:13	08/09/22 16:49	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/08/22 10:13	08/09/22 16:49	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/08/22 10:13	08/09/22 16:49	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/08/22 10:13	08/09/22 16:49	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/08/22 10:13	08/09/22 16:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	08/08/22 10:13	08/09/22 16:49	1
1,4-Difluorobenzene (Surr)	116		70 - 130	08/08/22 10:13	08/09/22 16:49	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-62

Lab Sample ID: 820-5243-62

Date Collected: 08/04/22 12:32

Matrix: Soil

Date Received: 08/05/22 14:02

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			08/09/22 10:55	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			08/09/22 09:16	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 *1	49.9		mg/Kg		08/08/22 08:23	08/08/22 12:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/22 08:23	08/08/22 12:24	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/08/22 08:23	08/08/22 12:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				08/08/22 08:23	08/08/22 12:24	1
o-Terphenyl	104		70 - 130				08/08/22 08:23	08/08/22 12:24	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.23		4.95		mg/Kg			08/10/22 19:25	1

Client Sample ID: CS-63

Lab Sample ID: 820-5243-63

Date Collected: 08/04/22 12:34

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:13	08/09/22 17:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:13	08/09/22 17:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:13	08/09/22 17:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/08/22 10:13	08/09/22 17:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:13	08/09/22 17:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/08/22 10:13	08/09/22 17:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				08/08/22 10:13	08/09/22 17:09	1
1,4-Difluorobenzene (Surr)	113		70 - 130				08/08/22 10:13	08/09/22 17:09	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			08/09/22 10:55	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			08/09/22 09:16	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 *1	50.0		mg/Kg		08/08/22 08:23	08/08/22 12:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 08:23	08/08/22 12:45	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-63

Lab Sample ID: 820-5243-63

Date Collected: 08/04/22 12:34

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 08:23	08/08/22 12:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				08/08/22 08:23	08/08/22 12:45	1
o-Terphenyl	108		70 - 130				08/08/22 08:23	08/08/22 12:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.1		4.98		mg/Kg			08/10/22 19:33	1

Client Sample ID: CS-64

Lab Sample ID: 820-5243-64

Date Collected: 08/04/22 12:36

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:13	08/09/22 17:30	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/08/22 10:13	08/09/22 17:30	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/08/22 10:13	08/09/22 17:30	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/08/22 10:13	08/09/22 17:30	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/08/22 10:13	08/09/22 17:30	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/08/22 10:13	08/09/22 17:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				08/08/22 10:13	08/09/22 17:30	1
1,4-Difluorobenzene (Surr)	113		70 - 130				08/08/22 10:13	08/09/22 17:30	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			08/09/22 10:55	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			08/09/22 09:16	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 *1	49.8		mg/Kg		08/08/22 08:23	08/08/22 13:07	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/08/22 08:23	08/08/22 13:07	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/08/22 08:23	08/08/22 13:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				08/08/22 08:23	08/08/22 13:07	1
o-Terphenyl	116		70 - 130				08/08/22 08:23	08/08/22 13:07	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.4		5.00		mg/Kg			08/10/22 19:56	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-65

Lab Sample ID: 820-5243-65

Date Collected: 08/04/22 12:38

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:13	08/09/22 17:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:13	08/09/22 17:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:13	08/09/22 17:51	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/08/22 10:13	08/09/22 17:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:13	08/09/22 17:51	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/08/22 10:13	08/09/22 17:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	08/08/22 10:13	08/09/22 17:51	1
1,4-Difluorobenzene (Surr)	115		70 - 130	08/08/22 10:13	08/09/22 17:51	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			08/09/22 10:55	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			08/09/22 09:16	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 *1	50.0		mg/Kg		08/08/22 08:23	08/08/22 13:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 08:23	08/08/22 13:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 08:23	08/08/22 13:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	08/08/22 08:23	08/08/22 13:29	1
o-Terphenyl	114		70 - 130	08/08/22 08:23	08/08/22 13:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38.1		4.97		mg/Kg			08/10/22 20:04	1

Client Sample ID: CS-66

Lab Sample ID: 820-5243-66

Date Collected: 08/04/22 12:40

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:13	08/09/22 18:12	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:13	08/09/22 18:12	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:13	08/09/22 18:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/08/22 10:13	08/09/22 18:12	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:13	08/09/22 18:12	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/08/22 10:13	08/09/22 18:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	08/08/22 10:13	08/09/22 18:12	1
1,4-Difluorobenzene (Surr)	109		70 - 130	08/08/22 10:13	08/09/22 18:12	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-66

Lab Sample ID: 820-5243-66

Date Collected: 08/04/22 12:40

Matrix: Soil

Date Received: 08/05/22 14:02

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			08/09/22 10:55	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			08/09/22 09:16	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 *1	50.0		mg/Kg		08/08/22 08:23	08/08/22 13:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 08:23	08/08/22 13:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 08:23	08/08/22 13:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				08/08/22 08:23	08/08/22 13:50	1
o-Terphenyl	105		70 - 130				08/08/22 08:23	08/08/22 13:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.7		4.96		mg/Kg			08/10/22 20:12	1

Client Sample ID: CS-67

Lab Sample ID: 820-5243-67

Date Collected: 08/04/22 12:42

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:13	08/09/22 18:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:13	08/09/22 18:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:13	08/09/22 18:32	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/08/22 10:13	08/09/22 18:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:13	08/09/22 18:32	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/08/22 10:13	08/09/22 18:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				08/08/22 10:13	08/09/22 18:32	1
1,4-Difluorobenzene (Surr)	117		70 - 130				08/08/22 10:13	08/09/22 18:32	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			08/09/22 10:55	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			08/09/22 09:16	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 *1	50.0		mg/Kg		08/08/22 08:23	08/08/22 14:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 08:23	08/08/22 14:12	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-67

Lab Sample ID: 820-5243-67

Date Collected: 08/04/22 12:42

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 08:23	08/08/22 14:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				08/08/22 08:23	08/08/22 14:12	1
o-Terphenyl	105		70 - 130				08/08/22 08:23	08/08/22 14:12	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.6		5.01		mg/Kg			08/10/22 20:20	1

Client Sample ID: CS-68

Lab Sample ID: 820-5243-68

Date Collected: 08/04/22 12:44

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:13	08/09/22 18:53	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/08/22 10:13	08/09/22 18:53	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/08/22 10:13	08/09/22 18:53	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/08/22 10:13	08/09/22 18:53	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/08/22 10:13	08/09/22 18:53	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/08/22 10:13	08/09/22 18:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				08/08/22 10:13	08/09/22 18:53	1
1,4-Difluorobenzene (Surr)	113		70 - 130				08/08/22 10:13	08/09/22 18:53	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			08/09/22 10:55	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			08/09/22 09:16	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 *1	50.0		mg/Kg		08/08/22 08:23	08/08/22 14:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 08:23	08/08/22 14:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 08:23	08/08/22 14:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				08/08/22 08:23	08/08/22 14:34	1
o-Terphenyl	105		70 - 130				08/08/22 08:23	08/08/22 14:34	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.1		4.99		mg/Kg			08/10/22 20:28	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-69

Lab Sample ID: 820-5243-69

Date Collected: 08/04/22 12:46

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:13	08/09/22 19:14	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/08/22 10:13	08/09/22 19:14	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/08/22 10:13	08/09/22 19:14	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/08/22 10:13	08/09/22 19:14	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/08/22 10:13	08/09/22 19:14	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/08/22 10:13	08/09/22 19:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	08/08/22 10:13	08/09/22 19:14	1
1,4-Difluorobenzene (Surr)	114		70 - 130	08/08/22 10:13	08/09/22 19:14	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			08/09/22 10:55	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			08/09/22 09:16	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 *1	49.9		mg/Kg		08/08/22 08:23	08/08/22 14:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/22 08:23	08/08/22 14:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/08/22 08:23	08/08/22 14:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	08/08/22 08:23	08/08/22 14:55	1
o-Terphenyl	105		70 - 130	08/08/22 08:23	08/08/22 14:55	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	775		4.95		mg/Kg			08/10/22 20:35	1

Client Sample ID: CS-70

Lab Sample ID: 820-5243-70

Date Collected: 08/04/22 12:48

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:13	08/09/22 19:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:13	08/09/22 19:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:13	08/09/22 19:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/08/22 10:13	08/09/22 19:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:13	08/09/22 19:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/08/22 10:13	08/09/22 19:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	08/08/22 10:13	08/09/22 19:34	1
1,4-Difluorobenzene (Surr)	118		70 - 130	08/08/22 10:13	08/09/22 19:34	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-70

Lab Sample ID: 820-5243-70

Date Collected: 08/04/22 12:48

Matrix: Soil

Date Received: 08/05/22 14:02

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			08/09/22 10:55	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			08/09/22 09:16	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 *1	50.0		mg/Kg		08/08/22 08:23	08/08/22 15:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 08:23	08/08/22 15:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 08:23	08/08/22 15:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				08/08/22 08:23	08/08/22 15:16	1
o-Terphenyl	100		70 - 130				08/08/22 08:23	08/08/22 15:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.0		5.05		mg/Kg			08/10/22 20:43	1

Client Sample ID: CS-71

Lab Sample ID: 820-5243-71

Date Collected: 08/04/22 12:50

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:13	08/09/22 20:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:13	08/09/22 20:59	1
Ethylbenzene	0.00383		0.00199		mg/Kg		08/08/22 10:13	08/09/22 20:59	1
m-Xylene & p-Xylene	0.0151		0.00398		mg/Kg		08/08/22 10:13	08/09/22 20:59	1
o-Xylene	0.00556		0.00199		mg/Kg		08/08/22 10:13	08/09/22 20:59	1
Xylenes, Total	0.0207		0.00398		mg/Kg		08/08/22 10:13	08/09/22 20:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				08/08/22 10:13	08/09/22 20:59	1
1,4-Difluorobenzene (Surr)	106		70 - 130				08/08/22 10:13	08/09/22 20:59	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0245		0.00398		mg/Kg			08/09/22 10:55	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			08/09/22 09:16	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 *1	50.0		mg/Kg		08/08/22 08:23	08/08/22 16:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 08:23	08/08/22 16:00	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-71

Lab Sample ID: 820-5243-71

Date Collected: 08/04/22 12:50

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 08:23	08/08/22 16:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				08/08/22 08:23	08/08/22 16:00	1
o-Terphenyl	98		70 - 130				08/08/22 08:23	08/08/22 16:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.4	*- *1	4.95		mg/Kg			08/10/22 07:45	1

Client Sample ID: CS-72

Lab Sample ID: 820-5243-72

Date Collected: 08/04/22 12:52

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:13	08/09/22 21:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:13	08/09/22 21:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:13	08/09/22 21:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/08/22 10:13	08/09/22 21:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:13	08/09/22 21:20	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/08/22 10:13	08/09/22 21:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				08/08/22 10:13	08/09/22 21:20	1
1,4-Difluorobenzene (Surr)	112		70 - 130				08/08/22 10:13	08/09/22 21:20	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			08/09/22 10:55	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			08/09/22 09:16	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 *1	49.8		mg/Kg		08/08/22 08:23	08/08/22 16:21	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/08/22 08:23	08/08/22 16:21	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/08/22 08:23	08/08/22 16:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				08/08/22 08:23	08/08/22 16:21	1
o-Terphenyl	105		70 - 130				08/08/22 08:23	08/08/22 16:21	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	24.5	*- *1	5.00		mg/Kg			08/10/22 08:09	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-73

Lab Sample ID: 820-5243-73

Date Collected: 08/04/22 12:54

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:13	08/09/22 21:41	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/08/22 10:13	08/09/22 21:41	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/08/22 10:13	08/09/22 21:41	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/08/22 10:13	08/09/22 21:41	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/08/22 10:13	08/09/22 21:41	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/08/22 10:13	08/09/22 21:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	08/08/22 10:13	08/09/22 21:41	1
1,4-Difluorobenzene (Surr)	112		70 - 130	08/08/22 10:13	08/09/22 21:41	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			08/09/22 10:55	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			08/09/22 09:16	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 *1	49.9		mg/Kg		08/08/22 08:23	08/08/22 16:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/22 08:23	08/08/22 16:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/08/22 08:23	08/08/22 16:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	08/08/22 08:23	08/08/22 16:43	1
o-Terphenyl	109		70 - 130	08/08/22 08:23	08/08/22 16:43	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	56.3	*- *1	4.99		mg/Kg			08/10/22 08:17	1

Client Sample ID: CS-74

Lab Sample ID: 820-5243-74

Date Collected: 08/04/22 12:56

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:13	08/09/22 22:01	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:13	08/09/22 22:01	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:13	08/09/22 22:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/08/22 10:13	08/09/22 22:01	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:13	08/09/22 22:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/08/22 10:13	08/09/22 22:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	08/08/22 10:13	08/09/22 22:01	1
1,4-Difluorobenzene (Surr)	113		70 - 130	08/08/22 10:13	08/09/22 22:01	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-74

Lab Sample ID: 820-5243-74

Date Collected: 08/04/22 12:56

Matrix: Soil

Date Received: 08/05/22 14:02

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			08/09/22 10:55	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			08/09/22 09:16	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 *1	50.0		mg/Kg		08/08/22 08:23	08/08/22 17:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 08:23	08/08/22 17:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 08:23	08/08/22 17:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				08/08/22 08:23	08/08/22 17:04	1
o-Terphenyl	104		70 - 130				08/08/22 08:23	08/08/22 17:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.62	*- *1	4.97		mg/Kg			08/10/22 08:24	1

Client Sample ID: CS-75

Lab Sample ID: 820-5243-75

Date Collected: 08/04/22 12:58

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:13	08/09/22 22:22	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/08/22 10:13	08/09/22 22:22	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/08/22 10:13	08/09/22 22:22	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		08/08/22 10:13	08/09/22 22:22	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/08/22 10:13	08/09/22 22:22	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		08/08/22 10:13	08/09/22 22:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				08/08/22 10:13	08/09/22 22:22	1
1,4-Difluorobenzene (Surr)	112		70 - 130				08/08/22 10:13	08/09/22 22:22	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			08/09/22 10:55	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			08/09/22 09:16	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 *1	49.9		mg/Kg		08/08/22 08:23	08/08/22 17:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/22 08:23	08/08/22 17:26	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-75

Lab Sample ID: 820-5243-75

Date Collected: 08/04/22 12:58

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 08:23	08/08/22 17:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				08/08/22 08:23	08/08/22 17:26	1
o-Terphenyl	109		70 - 130				08/08/22 08:23	08/08/22 17:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.96	U *- *1	4.96		mg/Kg			08/10/22 08:32	1

Client Sample ID: CS-76

Lab Sample ID: 820-5243-76

Date Collected: 08/04/22 13:00

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:13	08/09/22 22:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:13	08/09/22 22:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:13	08/09/22 22:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/08/22 10:13	08/09/22 22:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:13	08/09/22 22:43	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/08/22 10:13	08/09/22 22:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				08/08/22 10:13	08/09/22 22:43	1
1,4-Difluorobenzene (Surr)	116		70 - 130				08/08/22 10:13	08/09/22 22:43	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			08/09/22 10:55	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			08/09/22 09:16	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 *1	49.9		mg/Kg		08/08/22 08:23	08/08/22 17:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/22 08:23	08/08/22 17:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/08/22 08:23	08/08/22 17:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				08/08/22 08:23	08/08/22 17:47	1
o-Terphenyl	108		70 - 130				08/08/22 08:23	08/08/22 17:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U *- *1	5.00		mg/Kg			08/10/22 08:56	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-77

Lab Sample ID: 820-5243-77

Date Collected: 08/04/22 13:02

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:13	08/09/22 23:04	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/08/22 10:13	08/09/22 23:04	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/08/22 10:13	08/09/22 23:04	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/08/22 10:13	08/09/22 23:04	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/08/22 10:13	08/09/22 23:04	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/08/22 10:13	08/09/22 23:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130	08/08/22 10:13	08/09/22 23:04	1
1,4-Difluorobenzene (Surr)	111		70 - 130	08/08/22 10:13	08/09/22 23:04	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			08/09/22 10:55	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			08/09/22 09:16	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 *1	50.0		mg/Kg		08/08/22 08:23	08/08/22 18:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 08:23	08/08/22 18:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 08:23	08/08/22 18:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	08/08/22 08:23	08/08/22 18:09	1
o-Terphenyl	108		70 - 130	08/08/22 08:23	08/08/22 18:09	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.45	*- *1	5.00		mg/Kg			08/10/22 09:04	1

Client Sample ID: CS-78

Lab Sample ID: 820-5243-78

Date Collected: 08/04/22 13:04

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:13	08/09/22 23:24	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/08/22 10:13	08/09/22 23:24	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/08/22 10:13	08/09/22 23:24	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/08/22 10:13	08/09/22 23:24	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/08/22 10:13	08/09/22 23:24	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/08/22 10:13	08/09/22 23:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	08/08/22 10:13	08/09/22 23:24	1
1,4-Difluorobenzene (Surr)	113		70 - 130	08/08/22 10:13	08/09/22 23:24	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-78

Lab Sample ID: 820-5243-78

Date Collected: 08/04/22 13:04

Matrix: Soil

Date Received: 08/05/22 14:02

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			08/09/22 10:55	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			08/09/22 09:16	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 *1	49.9		mg/Kg		08/08/22 08:23	08/08/22 18:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/22 08:23	08/08/22 18:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/08/22 08:23	08/08/22 18:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				08/08/22 08:23	08/08/22 18:31	1
o-Terphenyl	113		70 - 130				08/08/22 08:23	08/08/22 18:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.0	*- *1	4.99		mg/Kg			08/10/22 09:12	1

Client Sample ID: CS-79

Lab Sample ID: 820-5243-79

Date Collected: 08/04/22 13:06

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:13	08/09/22 23:45	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:13	08/09/22 23:45	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:13	08/09/22 23:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/08/22 10:13	08/09/22 23:45	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:13	08/09/22 23:45	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/08/22 10:13	08/09/22 23:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				08/08/22 10:13	08/09/22 23:45	1
1,4-Difluorobenzene (Surr)	110		70 - 130				08/08/22 10:13	08/09/22 23:45	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			08/09/22 10:55	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			08/09/22 09:16	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 *1	49.9		mg/Kg		08/08/22 08:23	08/08/22 18:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/22 08:23	08/08/22 18:52	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-79

Lab Sample ID: 820-5243-79

Date Collected: 08/04/22 13:06

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 08:23	08/08/22 18:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				08/08/22 08:23	08/08/22 18:52	1
o-Terphenyl	104		70 - 130				08/08/22 08:23	08/08/22 18:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	179	*- *1	25.0		mg/Kg			08/10/22 09:19	5

Client Sample ID: CS-80

Lab Sample ID: 820-5243-80

Date Collected: 08/04/22 13:08

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:13	08/10/22 00:06	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/08/22 10:13	08/10/22 00:06	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/08/22 10:13	08/10/22 00:06	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/08/22 10:13	08/10/22 00:06	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/08/22 10:13	08/10/22 00:06	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/08/22 10:13	08/10/22 00:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				08/08/22 10:13	08/10/22 00:06	1
1,4-Difluorobenzene (Surr)	110		70 - 130				08/08/22 10:13	08/10/22 00:06	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			08/09/22 10:55	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			08/09/22 09:16	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 *1	49.8		mg/Kg		08/08/22 08:23	08/08/22 19:13	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/08/22 08:23	08/08/22 19:13	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/08/22 08:23	08/08/22 19:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				08/08/22 08:23	08/08/22 19:13	1
o-Terphenyl	110		70 - 130				08/08/22 08:23	08/08/22 19:13	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.71	*- *1	4.95		mg/Kg			08/10/22 09:27	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-81

Lab Sample ID: 820-5243-81

Date Collected: 08/04/22 13:10

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:28	08/09/22 23:57	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/08/22 10:28	08/09/22 23:57	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/08/22 10:28	08/09/22 23:57	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/08/22 10:28	08/09/22 23:57	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/08/22 10:28	08/09/22 23:57	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/08/22 10:28	08/09/22 23:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	08/08/22 10:28	08/09/22 23:57	1
1,4-Difluorobenzene (Surr)	93		70 - 130	08/08/22 10:28	08/09/22 23:57	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 12:56	08/08/22 21:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/22 12:56	08/08/22 21:00	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/08/22 12:56	08/08/22 21:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130	08/08/22 12:56	08/08/22 21:00	1
o-Terphenyl	95		70 - 130	08/08/22 12:56	08/08/22 21:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4770	*. *1	49.5		mg/Kg			08/10/22 09:35	10

Client Sample ID: CS-82

Lab Sample ID: 820-5243-82

Date Collected: 08/04/22 13:12

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:28	08/10/22 00:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:28	08/10/22 00:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:28	08/10/22 00:18	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/08/22 10:28	08/10/22 00:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:28	08/10/22 00:18	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/08/22 10:28	08/10/22 00:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	08/08/22 10:28	08/10/22 00:18	1
1,4-Difluorobenzene (Surr)	92		70 - 130	08/08/22 10:28	08/10/22 00:18	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-82

Lab Sample ID: 820-5243-82

Date Collected: 08/04/22 13:12

Matrix: Soil

Date Received: 08/05/22 14:02

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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 12:56	08/08/22 22:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/22 12:56	08/08/22 22:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/08/22 12:56	08/08/22 22:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				08/08/22 12:56	08/08/22 22:04	1
o-Terphenyl	92		70 - 130				08/08/22 12:56	08/08/22 22:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.45	*- *1	4.96		mg/Kg			08/10/22 09:59	1

Client Sample ID: CS-83

Lab Sample ID: 820-5243-83

Date Collected: 08/04/22 13:14

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:28	08/10/22 00:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:28	08/10/22 00:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:28	08/10/22 00:38	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/08/22 10:28	08/10/22 00:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:28	08/10/22 00:38	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/08/22 10:28	08/10/22 00:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				08/08/22 10:28	08/10/22 00:38	1
1,4-Difluorobenzene (Surr)	92		70 - 130				08/08/22 10:28	08/10/22 00:38	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 12:56	08/08/22 22:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 12:56	08/08/22 22:26	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-83

Lab Sample ID: 820-5243-83

Date Collected: 08/04/22 13:14

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 12:56	08/08/22 22:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				08/08/22 12:56	08/08/22 22:26	1
o-Terphenyl	103		70 - 130				08/08/22 12:56	08/08/22 22:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.59	*- *1	5.00		mg/Kg			08/10/22 10:07	1

Client Sample ID: CS-84

Lab Sample ID: 820-5243-84

Date Collected: 08/04/22 13:16

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:28	08/10/22 00:59	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/08/22 10:28	08/10/22 00:59	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/08/22 10:28	08/10/22 00:59	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/08/22 10:28	08/10/22 00:59	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/08/22 10:28	08/10/22 00:59	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/08/22 10:28	08/10/22 00:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				08/08/22 10:28	08/10/22 00:59	1
1,4-Difluorobenzene (Surr)	91		70 - 130				08/08/22 10:28	08/10/22 00:59	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 12:56	08/08/22 22:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/08/22 12:56	08/08/22 22:47	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/08/22 12:56	08/08/22 22:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				08/08/22 12:56	08/08/22 22:47	1
o-Terphenyl	93		70 - 130				08/08/22 12:56	08/08/22 22:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.39	*- *1	5.05		mg/Kg			08/10/22 10:30	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-85

Lab Sample ID: 820-5243-85

Date Collected: 08/04/22 13:18

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:28	08/10/22 01:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:28	08/10/22 01:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:28	08/10/22 01:19	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/08/22 10:28	08/10/22 01:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:28	08/10/22 01:19	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/08/22 10:28	08/10/22 01:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	08/08/22 10:28	08/10/22 01:19	1
1,4-Difluorobenzene (Surr)	88		70 - 130	08/08/22 10:28	08/10/22 01:19	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 12:56	08/08/22 23:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 12:56	08/08/22 23:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 12:56	08/08/22 23:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	08/08/22 12:56	08/08/22 23:08	1
o-Terphenyl	116		70 - 130	08/08/22 12:56	08/08/22 23:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.2	*- *1	4.99		mg/Kg			08/10/22 10:38	1

Client Sample ID: CS-86

Lab Sample ID: 820-5243-86

Date Collected: 08/04/22 13:20

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:28	08/10/22 01:40	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:28	08/10/22 01:40	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:28	08/10/22 01:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/08/22 10:28	08/10/22 01:40	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:28	08/10/22 01:40	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/08/22 10:28	08/10/22 01:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	08/08/22 10:28	08/10/22 01:40	1
1,4-Difluorobenzene (Surr)	89		70 - 130	08/08/22 10:28	08/10/22 01:40	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-86

Lab Sample ID: 820-5243-86

Date Collected: 08/04/22 13:20

Matrix: Soil

Date Received: 08/05/22 14:02

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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 12:56	08/08/22 23:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 12:56	08/08/22 23:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 12:56	08/08/22 23:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				08/08/22 12:56	08/08/22 23:29	1
o-Terphenyl	95		70 - 130				08/08/22 12:56	08/08/22 23:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.1	*- *1	5.00		mg/Kg			08/10/22 10:46	1

Client Sample ID: CS-87

Lab Sample ID: 820-5243-87

Date Collected: 08/04/22 13:22

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:28	08/10/22 02:00	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/08/22 10:28	08/10/22 02:00	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/08/22 10:28	08/10/22 02:00	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/08/22 10:28	08/10/22 02:00	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/08/22 10:28	08/10/22 02:00	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/08/22 10:28	08/10/22 02:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				08/08/22 10:28	08/10/22 02:00	1
1,4-Difluorobenzene (Surr)	92		70 - 130				08/08/22 10:28	08/10/22 02:00	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 12:56	08/08/22 23:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 12:56	08/08/22 23:50	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-87

Lab Sample ID: 820-5243-87

Date Collected: 08/04/22 13:22

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 12:56	08/08/22 23:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				08/08/22 12:56	08/08/22 23:50	1
o-Terphenyl	99		70 - 130				08/08/22 12:56	08/08/22 23:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U *- *1	4.98		mg/Kg			08/10/22 10:54	1

Client Sample ID: CS-88

Lab Sample ID: 820-5243-88

Date Collected: 08/04/22 13:24

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:28	08/10/22 02:21	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/08/22 10:28	08/10/22 02:21	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/08/22 10:28	08/10/22 02:21	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/08/22 10:28	08/10/22 02:21	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/08/22 10:28	08/10/22 02:21	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/08/22 10:28	08/10/22 02:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				08/08/22 10:28	08/10/22 02:21	1
1,4-Difluorobenzene (Surr)	91		70 - 130				08/08/22 10:28	08/10/22 02:21	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 12:56	08/09/22 00:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 12:56	08/09/22 00:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 12:56	08/09/22 00:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				08/08/22 12:56	08/09/22 00:10	1
o-Terphenyl	96		70 - 130				08/08/22 12:56	08/09/22 00:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	472	*- *1	25.0		mg/Kg			08/10/22 11:01	5

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-89

Lab Sample ID: 820-5243-89

Date Collected: 08/04/22 13:26

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:28	08/10/22 02:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:28	08/10/22 02:41	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:28	08/10/22 02:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/08/22 10:28	08/10/22 02:41	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:28	08/10/22 02:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/08/22 10:28	08/10/22 02:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	08/08/22 10:28	08/10/22 02:41	1
1,4-Difluorobenzene (Surr)	90		70 - 130	08/08/22 10:28	08/10/22 02:41	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 12:56	08/09/22 00:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/22 12:56	08/09/22 00:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/08/22 12:56	08/09/22 00:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	08/08/22 12:56	08/09/22 00:30	1
o-Terphenyl	99		70 - 130	08/08/22 12:56	08/09/22 00:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.96	U *- *1	4.96		mg/Kg			08/10/22 21:07	1

Client Sample ID: CS-90

Lab Sample ID: 820-5243-90

Date Collected: 08/04/22 13:28

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:28	08/10/22 03:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:28	08/10/22 03:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:28	08/10/22 03:02	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/08/22 10:28	08/10/22 03:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:28	08/10/22 03:02	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/08/22 10:28	08/10/22 03:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	08/08/22 10:28	08/10/22 03:02	1
1,4-Difluorobenzene (Surr)	89		70 - 130	08/08/22 10:28	08/10/22 03:02	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-90

Lab Sample ID: 820-5243-90

Date Collected: 08/04/22 13:28

Matrix: Soil

Date Received: 08/05/22 14:02

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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 12:56	08/09/22 00:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 12:56	08/09/22 00:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 12:56	08/09/22 00:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				08/08/22 12:56	08/09/22 00:51	1
o-Terphenyl	100		70 - 130				08/08/22 12:56	08/09/22 00:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.2	*- *1	5.00		mg/Kg			08/10/22 21:15	1

Client Sample ID: CS-91

Lab Sample ID: 820-5243-91

Date Collected: 08/04/22 13:30

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:28	08/10/22 04:25	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:28	08/10/22 04:25	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:28	08/10/22 04:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/08/22 10:28	08/10/22 04:25	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:28	08/10/22 04:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/08/22 10:28	08/10/22 04:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				08/08/22 10:28	08/10/22 04:25	1
1,4-Difluorobenzene (Surr)	86		70 - 130				08/08/22 10:28	08/10/22 04:25	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 12:56	08/09/22 01:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 12:56	08/09/22 01:31	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-91

Lab Sample ID: 820-5243-91

Date Collected: 08/04/22 13:30

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 12:56	08/09/22 01:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				08/08/22 12:56	08/09/22 01:31	1
o-Terphenyl	101		70 - 130				08/08/22 12:56	08/09/22 01:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.4		5.05		mg/Kg			08/10/22 12:04	1

Client Sample ID: CS-92

Lab Sample ID: 820-5243-92

Date Collected: 08/04/22 13:32

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:28	08/10/22 04:46	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/08/22 10:28	08/10/22 04:46	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/08/22 10:28	08/10/22 04:46	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/08/22 10:28	08/10/22 04:46	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/08/22 10:28	08/10/22 04:46	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/08/22 10:28	08/10/22 04:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				08/08/22 10:28	08/10/22 04:46	1
1,4-Difluorobenzene (Surr)	88		70 - 130				08/08/22 10:28	08/10/22 04:46	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 12:56	08/09/22 01:51	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/08/22 12:56	08/09/22 01:51	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/08/22 12:56	08/09/22 01:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				08/08/22 12:56	08/09/22 01:51	1
o-Terphenyl	104		70 - 130				08/08/22 12:56	08/09/22 01:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.4		4.95		mg/Kg			08/10/22 12:28	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-93

Lab Sample ID: 820-5243-93

Date Collected: 08/04/22 13:34

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:28	08/10/22 05:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:28	08/10/22 05:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:28	08/10/22 05:06	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/08/22 10:28	08/10/22 05:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:28	08/10/22 05:06	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/08/22 10:28	08/10/22 05:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	08/08/22 10:28	08/10/22 05:06	1
1,4-Difluorobenzene (Surr)	88		70 - 130	08/08/22 10:28	08/10/22 05:06	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 12:56	08/09/22 02:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/22 12:56	08/09/22 02:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/08/22 12:56	08/09/22 02:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	08/08/22 12:56	08/09/22 02:11	1
o-Terphenyl	97		70 - 130	08/08/22 12:56	08/09/22 02:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.18		4.99		mg/Kg			08/10/22 12:36	1

Client Sample ID: CS-94

Lab Sample ID: 820-5243-94

Date Collected: 08/04/22 13:36

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:28	08/10/22 05:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:28	08/10/22 05:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:28	08/10/22 05:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/08/22 10:28	08/10/22 05:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:28	08/10/22 05:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/08/22 10:28	08/10/22 05:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	08/08/22 10:28	08/10/22 05:27	1
1,4-Difluorobenzene (Surr)	90		70 - 130	08/08/22 10:28	08/10/22 05:27	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-94

Lab Sample ID: 820-5243-94

Date Collected: 08/04/22 13:36

Matrix: Soil

Date Received: 08/05/22 14:02

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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 12:56	08/09/22 02:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 12:56	08/09/22 02:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 12:56	08/09/22 02:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				08/08/22 12:56	08/09/22 02:31	1
o-Terphenyl	109		70 - 130				08/08/22 12:56	08/09/22 02:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.5		5.04		mg/Kg			08/10/22 12:44	1

Client Sample ID: CS-95

Lab Sample ID: 820-5243-95

Date Collected: 08/04/22 13:38

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:28	08/10/22 05:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:28	08/10/22 05:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:28	08/10/22 05:47	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/08/22 10:28	08/10/22 05:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:28	08/10/22 05:47	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/08/22 10:28	08/10/22 05:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				08/08/22 10:28	08/10/22 05:47	1
1,4-Difluorobenzene (Surr)	87		70 - 130				08/08/22 10:28	08/10/22 05:47	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 12:56	08/09/22 02:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/22 12:56	08/09/22 02:51	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-95

Lab Sample ID: 820-5243-95

Date Collected: 08/04/22 13:38

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 12:56	08/09/22 02:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				08/08/22 12:56	08/09/22 02:51	1
o-Terphenyl	100		70 - 130				08/08/22 12:56	08/09/22 02:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.2		4.99		mg/Kg			08/10/22 12:52	1

Client Sample ID: CS-96

Lab Sample ID: 820-5243-96

Date Collected: 08/04/22 13:40

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:28	08/10/22 06:08	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/08/22 10:28	08/10/22 06:08	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/08/22 10:28	08/10/22 06:08	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/08/22 10:28	08/10/22 06:08	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/08/22 10:28	08/10/22 06:08	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/08/22 10:28	08/10/22 06:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				08/08/22 10:28	08/10/22 06:08	1
1,4-Difluorobenzene (Surr)	86		70 - 130				08/08/22 10:28	08/10/22 06:08	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 12:56	08/09/22 03:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/22 12:56	08/09/22 03:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/08/22 12:56	08/09/22 03:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				08/08/22 12:56	08/09/22 03:11	1
o-Terphenyl	102		70 - 130				08/08/22 12:56	08/09/22 03:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	102		4.98		mg/Kg			08/10/22 13:15	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-97

Lab Sample ID: 820-5243-97

Date Collected: 08/04/22 13:42

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:28	08/10/22 06:28	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/08/22 10:28	08/10/22 06:28	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/08/22 10:28	08/10/22 06:28	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/08/22 10:28	08/10/22 06:28	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/08/22 10:28	08/10/22 06:28	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/08/22 10:28	08/10/22 06:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	08/08/22 10:28	08/10/22 06:28	1
1,4-Difluorobenzene (Surr)	87		70 - 130	08/08/22 10:28	08/10/22 06:28	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 12:56	08/09/22 03:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 12:56	08/09/22 03:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 12:56	08/09/22 03:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	08/08/22 12:56	08/09/22 03:31	1
o-Terphenyl	102		70 - 130	08/08/22 12:56	08/09/22 03:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44.0		4.95		mg/Kg			08/10/22 13:23	1

Client Sample ID: CS-98

Lab Sample ID: 820-5243-98

Date Collected: 08/04/22 13:44

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:28	08/10/22 06:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:28	08/10/22 06:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:28	08/10/22 06:49	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/08/22 10:28	08/10/22 06:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:28	08/10/22 06:49	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/08/22 10:28	08/10/22 06:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	08/08/22 10:28	08/10/22 06:49	1
1,4-Difluorobenzene (Surr)	89		70 - 130	08/08/22 10:28	08/10/22 06:49	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-98

Lab Sample ID: 820-5243-98

Date Collected: 08/04/22 13:44

Matrix: Soil

Date Received: 08/05/22 14:02

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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 12:56	08/09/22 03:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/22 12:56	08/09/22 03:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/08/22 12:56	08/09/22 03:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				08/08/22 12:56	08/09/22 03:51	1
o-Terphenyl	100		70 - 130				08/08/22 12:56	08/09/22 03:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.2		5.00		mg/Kg			08/10/22 13:31	1

Client Sample ID: CS-99

Lab Sample ID: 820-5243-99

Date Collected: 08/04/22 13:46

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:28	08/10/22 07:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:28	08/10/22 07:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:28	08/10/22 07:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/08/22 10:28	08/10/22 07:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:28	08/10/22 07:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/08/22 10:28	08/10/22 07:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				08/08/22 10:28	08/10/22 07:09	1
1,4-Difluorobenzene (Surr)	88		70 - 130				08/08/22 10:28	08/10/22 07:09	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 12:56	08/09/22 04:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/22 12:56	08/09/22 04:11	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-99

Lab Sample ID: 820-5243-99

Date Collected: 08/04/22 13:46

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 12:56	08/09/22 04:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				08/08/22 12:56	08/09/22 04:11	1
o-Terphenyl	101		70 - 130				08/08/22 12:56	08/09/22 04:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.3		4.97		mg/Kg			08/10/22 13:39	1

Client Sample ID: CS-100

Lab Sample ID: 820-5243-100

Date Collected: 08/04/22 13:48

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:28	08/10/22 07:30	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/08/22 10:28	08/10/22 07:30	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/08/22 10:28	08/10/22 07:30	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		08/08/22 10:28	08/10/22 07:30	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/08/22 10:28	08/10/22 07:30	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		08/08/22 10:28	08/10/22 07:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				08/08/22 10:28	08/10/22 07:30	1
1,4-Difluorobenzene (Surr)	90		70 - 130				08/08/22 10:28	08/10/22 07:30	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 12:56	08/09/22 04:32	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/08/22 12:56	08/09/22 04:32	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/08/22 12:56	08/09/22 04:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				08/08/22 12:56	08/09/22 04:32	1
o-Terphenyl	101		70 - 130				08/08/22 12:56	08/09/22 04:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.55		4.99		mg/Kg			08/10/22 13:47	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-101

Lab Sample ID: 820-5243-101

Date Collected: 08/04/22 13:50

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:35	08/10/22 00:56	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/08/22 10:35	08/10/22 00:56	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/08/22 10:35	08/10/22 00:56	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		08/08/22 10:35	08/10/22 00:56	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/08/22 10:35	08/10/22 00:56	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		08/08/22 10:35	08/10/22 00:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	08/08/22 10:35	08/10/22 00:56	1
1,4-Difluorobenzene (Surr)	98		70 - 130	08/08/22 10:35	08/10/22 00:56	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 12:59	08/08/22 21:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/22 12:59	08/08/22 21:00	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/08/22 12:59	08/08/22 21:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	08/08/22 12:59	08/08/22 21:00	1
o-Terphenyl	105		70 - 130	08/08/22 12:59	08/08/22 21:00	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.1	F1 F2	5.05		mg/Kg			08/10/22 13:54	1

Client Sample ID: CS-102

Lab Sample ID: 820-5243-102

Date Collected: 08/04/22 13:52

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:35	08/10/22 01:16	1
Toluene	<0.00202	U	0.00202		mg/Kg		08/08/22 10:35	08/10/22 01:16	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/08/22 10:35	08/10/22 01:16	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		08/08/22 10:35	08/10/22 01:16	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		08/08/22 10:35	08/10/22 01:16	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		08/08/22 10:35	08/10/22 01:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	08/08/22 10:35	08/10/22 01:16	1
1,4-Difluorobenzene (Surr)	99		70 - 130	08/08/22 10:35	08/10/22 01:16	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-102

Lab Sample ID: 820-5243-102

Date Collected: 08/04/22 13:52

Matrix: Soil

Date Received: 08/05/22 14:02

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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 12:59	08/08/22 22:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/22 12:59	08/08/22 22:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/08/22 12:59	08/08/22 22:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				08/08/22 12:59	08/08/22 22:04	1
o-Terphenyl	102		70 - 130				08/08/22 12:59	08/08/22 22:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.3		4.96		mg/Kg			08/10/22 14:18	1

Client Sample ID: CS-103

Lab Sample ID: 820-5243-103

Date Collected: 08/04/22 13:54

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:35	08/10/22 01:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:35	08/10/22 01:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:35	08/10/22 01:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/08/22 10:35	08/10/22 01:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:35	08/10/22 01:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/08/22 10:35	08/10/22 01:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				08/08/22 10:35	08/10/22 01:37	1
1,4-Difluorobenzene (Surr)	105		70 - 130				08/08/22 10:35	08/10/22 01:37	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 12:59	08/08/22 22:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 12:59	08/08/22 22:26	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-103

Lab Sample ID: 820-5243-103

Date Collected: 08/04/22 13:54

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 12:59	08/08/22 22:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				08/08/22 12:59	08/08/22 22:26	1
o-Terphenyl	105		70 - 130				08/08/22 12:59	08/08/22 22:26	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.3		5.00		mg/Kg			08/10/22 14:26	1

Client Sample ID: CS-104

Lab Sample ID: 820-5243-104

Date Collected: 08/04/22 13:56

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:35	08/10/22 01:57	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:35	08/10/22 01:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:35	08/10/22 01:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/08/22 10:35	08/10/22 01:57	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:35	08/10/22 01:57	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/08/22 10:35	08/10/22 01:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				08/08/22 10:35	08/10/22 01:57	1
1,4-Difluorobenzene (Surr)	101		70 - 130				08/08/22 10:35	08/10/22 01:57	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 12:59	08/08/22 22:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/08/22 12:59	08/08/22 22:47	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/08/22 12:59	08/08/22 22:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				08/08/22 12:59	08/08/22 22:47	1
o-Terphenyl	107		70 - 130				08/08/22 12:59	08/08/22 22:47	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.87		4.95		mg/Kg			08/10/22 15:21	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-105

Lab Sample ID: 820-5243-105

Date Collected: 08/04/22 13:58

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:35	08/10/22 02:18	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/08/22 10:35	08/10/22 02:18	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/08/22 10:35	08/10/22 02:18	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/08/22 10:35	08/10/22 02:18	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/08/22 10:35	08/10/22 02:18	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/08/22 10:35	08/10/22 02:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	08/08/22 10:35	08/10/22 02:18	1
1,4-Difluorobenzene (Surr)	97		70 - 130	08/08/22 10:35	08/10/22 02:18	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 12:59	08/08/22 23:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 12:59	08/08/22 23:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 12:59	08/08/22 23:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	08/08/22 12:59	08/08/22 23:08	1
o-Terphenyl	110		70 - 130	08/08/22 12:59	08/08/22 23:08	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.9		4.97		mg/Kg			08/10/22 15:29	1

Client Sample ID: CS-106

Lab Sample ID: 820-5243-106

Date Collected: 08/04/22 14:00

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:35	08/10/22 02:38	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/08/22 10:35	08/10/22 02:38	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/08/22 10:35	08/10/22 02:38	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/08/22 10:35	08/10/22 02:38	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/08/22 10:35	08/10/22 02:38	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/08/22 10:35	08/10/22 02:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	08/08/22 10:35	08/10/22 02:38	1
1,4-Difluorobenzene (Surr)	103		70 - 130	08/08/22 10:35	08/10/22 02:38	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-106

Lab Sample ID: 820-5243-106

Date Collected: 08/04/22 14:00

Matrix: Soil

Date Received: 08/05/22 14:02

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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 12:59	08/08/22 23:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 12:59	08/08/22 23:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 12:59	08/08/22 23:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				08/08/22 12:59	08/08/22 23:29	1
o-Terphenyl	102		70 - 130				08/08/22 12:59	08/08/22 23:29	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41.9		4.98		mg/Kg			08/10/22 15:37	1

Client Sample ID: CS-107

Lab Sample ID: 820-5243-107

Date Collected: 08/04/22 14:02

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:35	08/10/22 02:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:35	08/10/22 02:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:35	08/10/22 02:59	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/08/22 10:35	08/10/22 02:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:35	08/10/22 02:59	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/08/22 10:35	08/10/22 02:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				08/08/22 10:35	08/10/22 02:59	1
1,4-Difluorobenzene (Surr)	102		70 - 130				08/08/22 10:35	08/10/22 02:59	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 12:59	08/08/22 23:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 12:59	08/08/22 23:50	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-107

Lab Sample ID: 820-5243-107

Date Collected: 08/04/22 14:02

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 12:59	08/08/22 23:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				08/08/22 12:59	08/08/22 23:50	1
o-Terphenyl	104		70 - 130				08/08/22 12:59	08/08/22 23:50	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.65		4.98		mg/Kg			08/10/22 15:45	1

Client Sample ID: CS-108

Lab Sample ID: 820-5243-108

Date Collected: 08/04/22 14:04

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:35	08/10/22 03:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:35	08/10/22 03:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:35	08/10/22 03:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/08/22 10:35	08/10/22 03:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:35	08/10/22 03:19	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/08/22 10:35	08/10/22 03:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				08/08/22 10:35	08/10/22 03:19	1
1,4-Difluorobenzene (Surr)	102		70 - 130				08/08/22 10:35	08/10/22 03:19	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 12:59	08/09/22 00:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 12:59	08/09/22 00:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 12:59	08/09/22 00:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				08/08/22 12:59	08/09/22 00:10	1
o-Terphenyl	101		70 - 130				08/08/22 12:59	08/09/22 00:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	492		25.0		mg/Kg			08/10/22 15:53	5

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-109

Lab Sample ID: 820-5243-109

Date Collected: 08/04/22 14:06

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:35	08/10/22 03:40	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/08/22 10:35	08/10/22 03:40	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/08/22 10:35	08/10/22 03:40	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/08/22 10:35	08/10/22 03:40	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/08/22 10:35	08/10/22 03:40	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/08/22 10:35	08/10/22 03:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	08/08/22 10:35	08/10/22 03:40	1
1,4-Difluorobenzene (Surr)	97		70 - 130	08/08/22 10:35	08/10/22 03:40	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 12:59	08/09/22 00:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/22 12:59	08/09/22 00:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/08/22 12:59	08/09/22 00:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	08/08/22 12:59	08/09/22 00:30	1
o-Terphenyl	95		70 - 130	08/08/22 12:59	08/09/22 00:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	57.9		4.96		mg/Kg			08/10/22 16:00	1

Client Sample ID: CS-110

Lab Sample ID: 820-5243-110

Date Collected: 08/04/22 14:08

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:35	08/10/22 04:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:35	08/10/22 04:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:35	08/10/22 04:00	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/08/22 10:35	08/10/22 04:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:35	08/10/22 04:00	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/08/22 10:35	08/10/22 04:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	08/08/22 10:35	08/10/22 04:00	1
1,4-Difluorobenzene (Surr)	97		70 - 130	08/08/22 10:35	08/10/22 04:00	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-110

Lab Sample ID: 820-5243-110

Date Collected: 08/04/22 14:08

Matrix: Soil

Date Received: 08/05/22 14:02

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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 12:59	08/09/22 00:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 12:59	08/09/22 00:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 12:59	08/09/22 00:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				08/08/22 12:59	08/09/22 00:51	1
o-Terphenyl	103		70 - 130				08/08/22 12:59	08/09/22 00:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.95	U	4.95		mg/Kg			08/10/22 16:08	1

Client Sample ID: CS-111

Lab Sample ID: 820-5243-111

Date Collected: 08/04/22 14:10

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:35	08/10/22 05:50	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:35	08/10/22 05:50	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:35	08/10/22 05:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/08/22 10:35	08/10/22 05:50	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:35	08/10/22 05:50	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/08/22 10:35	08/10/22 05:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				08/08/22 10:35	08/10/22 05:50	1
1,4-Difluorobenzene (Surr)	96		70 - 130				08/08/22 10:35	08/10/22 05:50	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 12:59	08/09/22 01:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 12:59	08/09/22 01:31	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-111

Lab Sample ID: 820-5243-111

Date Collected: 08/04/22 14:10

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 12:59	08/09/22 01:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				08/08/22 12:59	08/09/22 01:31	1
o-Terphenyl	100		70 - 130				08/08/22 12:59	08/09/22 01:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	440		4.98		mg/Kg			08/10/22 14:53	1

Client Sample ID: CS-112

Lab Sample ID: 820-5243-112

Date Collected: 08/04/22 14:12

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:35	08/10/22 06:11	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/08/22 10:35	08/10/22 06:11	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/08/22 10:35	08/10/22 06:11	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/08/22 10:35	08/10/22 06:11	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/08/22 10:35	08/10/22 06:11	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/08/22 10:35	08/10/22 06:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				08/08/22 10:35	08/10/22 06:11	1
1,4-Difluorobenzene (Surr)	104		70 - 130				08/08/22 10:35	08/10/22 06:11	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 12:59	08/09/22 01:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 12:59	08/09/22 01:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 12:59	08/09/22 01:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				08/08/22 12:59	08/09/22 01:51	1
o-Terphenyl	99		70 - 130				08/08/22 12:59	08/09/22 01:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.52		5.00		mg/Kg			08/10/22 15:21	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-113

Lab Sample ID: 820-5243-113

Date Collected: 08/04/22 14:14

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:35	08/10/22 06:31	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/08/22 10:35	08/10/22 06:31	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/08/22 10:35	08/10/22 06:31	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/08/22 10:35	08/10/22 06:31	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/08/22 10:35	08/10/22 06:31	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/08/22 10:35	08/10/22 06:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	08/08/22 10:35	08/10/22 06:31	1
1,4-Difluorobenzene (Surr)	101		70 - 130	08/08/22 10:35	08/10/22 06:31	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 12:59	08/09/22 02:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 12:59	08/09/22 02:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 12:59	08/09/22 02:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130	08/08/22 12:59	08/09/22 02:11	1
o-Terphenyl	126		70 - 130	08/08/22 12:59	08/09/22 02:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.4		4.96		mg/Kg			08/10/22 15:30	1

Client Sample ID: CS-114

Lab Sample ID: 820-5243-114

Date Collected: 08/04/22 14:16

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:35	08/10/22 06:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:35	08/10/22 06:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:35	08/10/22 06:52	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/08/22 10:35	08/10/22 06:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:35	08/10/22 06:52	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/08/22 10:35	08/10/22 06:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	08/08/22 10:35	08/10/22 06:52	1
1,4-Difluorobenzene (Surr)	95		70 - 130	08/08/22 10:35	08/10/22 06:52	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-114

Lab Sample ID: 820-5243-114

Date Collected: 08/04/22 14:16

Matrix: Soil

Date Received: 08/05/22 14:02

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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 12:59	08/09/22 02:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 12:59	08/09/22 02:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 12:59	08/09/22 02:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				08/08/22 12:59	08/09/22 02:31	1
o-Terphenyl	104		70 - 130				08/08/22 12:59	08/09/22 02:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.5		5.05		mg/Kg			08/10/22 15:39	1

Client Sample ID: CS-115

Lab Sample ID: 820-5243-115

Date Collected: 08/04/22 14:18

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:35	08/10/22 07:12	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:35	08/10/22 07:12	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:35	08/10/22 07:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/08/22 10:35	08/10/22 07:12	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:35	08/10/22 07:12	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/08/22 10:35	08/10/22 07:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				08/08/22 10:35	08/10/22 07:12	1
1,4-Difluorobenzene (Surr)	104		70 - 130				08/08/22 10:35	08/10/22 07:12	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 12:59	08/09/22 02:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/22 12:59	08/09/22 02:51	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-115

Lab Sample ID: 820-5243-115

Date Collected: 08/04/22 14:18

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 12:59	08/09/22 02:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				08/08/22 12:59	08/09/22 02:51	1
o-Terphenyl	106		70 - 130				08/08/22 12:59	08/09/22 02:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	52.3		4.97		mg/Kg			08/10/22 15:48	1

Client Sample ID: CS-116

Lab Sample ID: 820-5243-116

Date Collected: 08/04/22 14:20

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:35	08/10/22 07:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:35	08/10/22 07:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:35	08/10/22 07:33	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/08/22 10:35	08/10/22 07:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:35	08/10/22 07:33	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/08/22 10:35	08/10/22 07:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				08/08/22 10:35	08/10/22 07:33	1
1,4-Difluorobenzene (Surr)	103		70 - 130				08/08/22 10:35	08/10/22 07:33	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 12:59	08/09/22 03:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/22 12:59	08/09/22 03:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/08/22 12:59	08/09/22 03:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				08/08/22 12:59	08/09/22 03:11	1
o-Terphenyl	123		70 - 130				08/08/22 12:59	08/09/22 03:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.4		4.95		mg/Kg			08/10/22 16:16	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-117

Lab Sample ID: 820-5243-117

Date Collected: 08/04/22 14:22

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:35	08/10/22 07:53	1
Toluene	<0.00198	U	0.00198		mg/Kg		08/08/22 10:35	08/10/22 07:53	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		08/08/22 10:35	08/10/22 07:53	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		08/08/22 10:35	08/10/22 07:53	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		08/08/22 10:35	08/10/22 07:53	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		08/08/22 10:35	08/10/22 07:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	08/08/22 10:35	08/10/22 07:53	1
1,4-Difluorobenzene (Surr)	105		70 - 130	08/08/22 10:35	08/10/22 07:53	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 12:59	08/09/22 03:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 12:59	08/09/22 03:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 12:59	08/09/22 03:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	08/08/22 12:59	08/09/22 03:31	1
o-Terphenyl	121		70 - 130	08/08/22 12:59	08/09/22 03:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.47		4.96		mg/Kg			08/10/22 16:25	1

Client Sample ID: CS-118

Lab Sample ID: 820-5243-118

Date Collected: 08/04/22 14:24

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:35	08/10/22 08:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:35	08/10/22 08:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:35	08/10/22 08:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/08/22 10:35	08/10/22 08:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:35	08/10/22 08:46	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/08/22 10:35	08/10/22 08:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	08/08/22 10:35	08/10/22 08:46	1
1,4-Difluorobenzene (Surr)	94		70 - 130	08/08/22 10:35	08/10/22 08:46	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-118

Lab Sample ID: 820-5243-118

Date Collected: 08/04/22 14:24

Matrix: Soil

Date Received: 08/05/22 14:02

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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 12:59	08/09/22 03:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/22 12:59	08/09/22 03:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/08/22 12:59	08/09/22 03:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				08/08/22 12:59	08/09/22 03:51	1
o-Terphenyl	122		70 - 130				08/08/22 12:59	08/09/22 03:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	440		5.04		mg/Kg			08/10/22 16:34	1

Client Sample ID: CS-119

Lab Sample ID: 820-5243-119

Date Collected: 08/04/22 14:26

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:35	08/10/22 09:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:35	08/10/22 09:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:35	08/10/22 09:07	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		08/08/22 10:35	08/10/22 09:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:35	08/10/22 09:07	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		08/08/22 10:35	08/10/22 09:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				08/08/22 10:35	08/10/22 09:07	1
1,4-Difluorobenzene (Surr)	101		70 - 130				08/08/22 10:35	08/10/22 09:07	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 12:59	08/09/22 04:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/22 12:59	08/09/22 04:11	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-119

Lab Sample ID: 820-5243-119

Date Collected: 08/04/22 14:26

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 12:59	08/09/22 04:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				08/08/22 12:59	08/09/22 04:11	1
o-Terphenyl	99		70 - 130				08/08/22 12:59	08/09/22 04:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8360		49.9		mg/Kg			08/10/22 16:43	10

Client Sample ID: CS-120

Lab Sample ID: 820-5243-120

Date Collected: 08/04/22 14:28

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:35	08/10/22 09:27	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:35	08/10/22 09:27	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:35	08/10/22 09:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/08/22 10:35	08/10/22 09:27	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/08/22 10:35	08/10/22 09:27	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/08/22 10:35	08/10/22 09:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				08/08/22 10:35	08/10/22 09:27	1
1,4-Difluorobenzene (Surr)	99		70 - 130				08/08/22 10:35	08/10/22 09:27	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 12:59	08/09/22 04:32	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/08/22 12:59	08/09/22 04:32	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/08/22 12:59	08/09/22 04:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				08/08/22 12:59	08/09/22 04:32	1
o-Terphenyl	119		70 - 130				08/08/22 12:59	08/09/22 04:32	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4990		24.9		mg/Kg			08/10/22 16:53	5

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-121

Lab Sample ID: 820-5243-121

Date Collected: 08/04/22 14:30

Matrix: Soil

Date Received: 08/05/22 14:02

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F1 F2	0.00199		mg/Kg		08/08/22 10:46	08/09/22 01:37	1
Toluene	<0.00199	U F2 F1	0.00199		mg/Kg		08/08/22 10:46	08/09/22 01:37	1
Ethylbenzene	<0.00199	U F2 F1	0.00199		mg/Kg		08/08/22 10:46	08/09/22 01:37	1
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.00398		mg/Kg		08/08/22 10:46	08/09/22 01:37	1
o-Xylene	<0.00199	U F2 F1	0.00199		mg/Kg		08/08/22 10:46	08/09/22 01:37	1
Xylenes, Total	<0.00398	U F2 F1	0.00398		mg/Kg		08/08/22 10:46	08/09/22 01:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	08/08/22 10:46	08/09/22 01:37	1
1,4-Difluorobenzene (Surr)	79		70 - 130	08/08/22 10:46	08/09/22 01:37	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 14:08	08/09/22 02:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/08/22 14:08	08/09/22 02:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/08/22 14:08	08/09/22 02:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	08/08/22 14:08	08/09/22 02:10	1
o-Terphenyl	116		70 - 130	08/08/22 14:08	08/09/22 02:10	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10400	F1	100		mg/Kg			08/10/22 17:02	20

Client Sample ID: CS-122

Lab Sample ID: 820-5243-122

Date Collected: 08/04/22 14:32

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:46	08/09/22 02:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:46	08/09/22 02:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:46	08/09/22 02:03	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		08/08/22 10:46	08/09/22 02:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:46	08/09/22 02:03	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		08/08/22 10:46	08/09/22 02:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	08/08/22 10:46	08/09/22 02:03	1
1,4-Difluorobenzene (Surr)	90		70 - 130	08/08/22 10:46	08/09/22 02:03	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-122

Lab Sample ID: 820-5243-122

Date Collected: 08/04/22 14:32

Matrix: Soil

Date Received: 08/05/22 14:02

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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 14:08	08/09/22 02:31	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		08/08/22 14:08	08/09/22 02:31	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		08/08/22 14:08	08/09/22 02:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130				08/08/22 14:08	08/09/22 02:31	1
o-Terphenyl	129		70 - 130				08/08/22 14:08	08/09/22 02:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2340		24.9		mg/Kg			08/10/22 17:29	5

Client Sample ID: SP-F

Lab Sample ID: 820-5243-123

Date Collected: 08/04/22 14:34

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 10:46	08/09/22 02:28	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/08/22 10:46	08/09/22 02:28	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/08/22 10:46	08/09/22 02:28	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/08/22 10:46	08/09/22 02:28	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/08/22 10:46	08/09/22 02:28	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/08/22 10:46	08/09/22 02:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				08/08/22 10:46	08/09/22 02:28	1
1,4-Difluorobenzene (Surr)	89		70 - 130				08/08/22 10:46	08/09/22 02:28	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			08/09/22 10:55	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			08/09/22 09:16	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		08/08/22 14:08	08/09/22 02:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 14:08	08/09/22 02:52	1

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: SP-F

Lab Sample ID: 820-5243-123

Date Collected: 08/04/22 14:34

Matrix: Soil

Date Received: 08/05/22 14:02

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		08/08/22 14:08	08/09/22 02:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	08/08/22 14:08	08/09/22 02:52	1
o-Terphenyl	107		70 - 130	08/08/22 14:08	08/09/22 02:52	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	202		4.95		mg/Kg			08/10/22 17:39	1

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

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)
820-5243-1	CS-1	110	87
820-5243-1 MS	CS-1	120	89
820-5243-1 MSD	CS-1	109	86
820-5243-2	CS-2	93	87
820-5243-3	CS-3	92	83
820-5243-4	CS-4	107	79
820-5243-5	CS-5	105	77
820-5243-6	CS-6	97	82
820-5243-7	CS-7	66 S1-	91
820-5243-8	CS-8	94	82
820-5243-9	CS-9	117	90
820-5243-10	CS-10	96	81
820-5243-11	CS-11	98	94
820-5243-12	CS-12	95	81
820-5243-13	CS-13	114	93
820-5243-14	CS-14	105	81
820-5243-15	CS-15	113	92
820-5243-16	CS-16	113	91
820-5243-17	CS-17	110	87
820-5243-18	CS-18	97	83
820-5243-19	CS-19	93	85
820-5243-20	CS-20	114	84
820-5243-21	CS-21	170 S1+	91
820-5243-21 MS	CS-21	99	98
820-5243-21 MSD	CS-21	98	92
820-5243-22	CS-22	120	82
820-5243-23	CS-23	134 S1+	91
820-5243-24	CS-24	150 S1+	78
820-5243-25	CS-25	111	104
820-5243-26	CS-26	104	112
820-5243-27	CS-27	105	99
820-5243-28	CS-28	110	105
820-5243-29	CS-29	128	94
820-5243-30	CS-30	100	94
820-5243-31	CS-31	105	110
820-5243-32	CS-32	106	115
820-5243-33	CS-33	108	114
820-5243-34	CS-34	122	92
820-5243-35	CS-35	148 S1+	87
820-5243-36	CS-36	104	106
820-5243-37	CS-37	130	93
820-5243-38	CS-38	114	100
820-5243-39	CS-39	113	110
820-5243-40	CS-40	110	113
820-5243-41	CS-41	98	104
820-5243-41 MS	CS-41	98	104
820-5243-41 MSD	CS-41	101	105
820-5243-42	CS-42	102	108
820-5243-43	CS-43	104	100

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Surrogate Summary

Client: Terracon Consulting Eng & Scientists

Job ID: 820-5243-1

Project/Site: Libbey

SDG: AR217165

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

Matrix: Soil

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
820-5243-44	CS-44	100	107
820-5243-45	CS-45	104	105
820-5243-46	CS-46	111	110
820-5243-47	CS-47	110	106
820-5243-48	CS-48	101	104
820-5243-49	CS-49	104	108
820-5243-50	CS-50	100	103
820-5243-51	CS-51	99	99
820-5243-52	CS-52	102	105
820-5243-53	CS-53	108	106
820-5243-54	CS-54	107	105
820-5243-55	CS-55	111	100
820-5243-56	CS-56	114	99
820-5243-57	CS-57	101	99
820-5243-58	CS-58	96	103
820-5243-59	CS-59	109	104
820-5243-60	CS-60	103	96
820-5243-61	CS-61	102	103
820-5243-61 MS	CS-61	92	104
820-5243-61 MSD	CS-61	89	102
820-5243-62	CS-62	107	116
820-5243-63	CS-63	105	113
820-5243-64	CS-64	108	113
820-5243-65	CS-65	111	115
820-5243-66	CS-66	104	109
820-5243-67	CS-67	112	117
820-5243-68	CS-68	107	113
820-5243-69	CS-69	103	114
820-5243-70	CS-70	113	118
820-5243-71	CS-71	104	106
820-5243-72	CS-72	102	112
820-5243-73	CS-73	101	112
820-5243-74	CS-74	109	113
820-5243-75	CS-75	105	112
820-5243-76	CS-76	108	116
820-5243-77	CS-77	130	111
820-5243-78	CS-78	107	113
820-5243-79	CS-79	102	110
820-5243-80	CS-80	106	110
820-5243-81	CS-81	113	93
820-5243-81 MS	CS-81	104	97
820-5243-81 MSD	CS-81	105	92
820-5243-82	CS-82	110	92
820-5243-83	CS-83	111	92
820-5243-84	CS-84	113	91
820-5243-85	CS-85	112	88
820-5243-86	CS-86	111	89
820-5243-87	CS-87	113	92
820-5243-88	CS-88	114	91
820-5243-89	CS-89	113	90

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Surrogate Summary

Client: Terracon Consulting Eng & Scientists

Job ID: 820-5243-1

Project/Site: Libbey

SDG: AR217165

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)				
820-5243-90	CS-90	110	89				
820-5243-91	CS-91	102	86				
820-5243-92	CS-92	114	88				
820-5243-93	CS-93	111	88				
820-5243-94	CS-94	112	90				
820-5243-95	CS-95	107	87				
820-5243-96	CS-96	106	86				
820-5243-97	CS-97	116	87				
820-5243-98	CS-98	113	89				
820-5243-99	CS-99	111	88				
820-5243-100	CS-100	110	90				
820-5243-101	CS-101	105	98				
820-5243-101 MS	CS-101	105	97				
820-5243-101 MSD	CS-101	105	95				
820-5243-102	CS-102	106	99				
820-5243-103	CS-103	105	105				
820-5243-104	CS-104	104	101				
820-5243-105	CS-105	107	97				
820-5243-106	CS-106	105	103				
820-5243-107	CS-107	99	102				
820-5243-108	CS-108	101	102				
820-5243-109	CS-109	108	97				
820-5243-110	CS-110	105	97				
820-5243-111	CS-111	101	96				
820-5243-112	CS-112	108	104				
820-5243-113	CS-113	107	101				
820-5243-114	CS-114	107	95				
820-5243-115	CS-115	108	104				
820-5243-116	CS-116	103	103				
820-5243-117	CS-117	112	105				
820-5243-118	CS-118	113	94				
820-5243-119	CS-119	103	101				
820-5243-120	CS-120	103	99				
820-5243-121	CS-121	124	79				
820-5243-121 MS	CS-121	109	83				
820-5243-121 MSD	CS-121	101	89				
820-5243-122	CS-122	118	90				
820-5243-123	SP-F	112	89				

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)				
LCS 880-31714/1-A	Lab Control Sample	102	99				
LCS 880-31715/1-A	Lab Control Sample	98	99				

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Surrogate Summary

Client: Terracon Consulting Eng & Scientists

Job ID: 820-5243-1

Project/Site: Libbey

SDG: AR217165

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)
LCS 880-31716/1-A	Lab Control Sample	106	101
LCS 880-31717/1-A	Lab Control Sample	87	105
LCS 880-31728/1-A	Lab Control Sample	106	97
LCS 880-31729/1-A	Lab Control Sample	109	104
LCS 880-31731/1-A	Lab Control Sample	125	85
LCS 880-31834/1-A	Lab Control Sample	99	108
LCSD 880-31606/2-A	Lab Control Sample Dup	101	105
LCSD 880-31714/2-A	Lab Control Sample Dup	100	89
LCSD 880-31715/2-A	Lab Control Sample Dup	100	98
LCSD 880-31716/2-A	Lab Control Sample Dup	104	99
LCSD 880-31717/2-A	Lab Control Sample Dup	94	104
LCSD 880-31728/2-A	Lab Control Sample Dup	115	95
LCSD 880-31729/2-A	Lab Control Sample Dup	107	99
LCSD 880-31731/2-A	Lab Control Sample Dup	111	83
LCSD 880-31834/2-A	Lab Control Sample Dup	114	102
MB 880-31523/5-A	Method Blank	92	80
MB 880-31606/5-A	Method Blank	100	95
MB 880-31714/5-A	Method Blank	98	90
MB 880-31715/5-A	Method Blank	101	90
MB 880-31716/5-A	Method Blank	93	103
MB 880-31717/5-A	Method Blank	96	95
MB 880-31728/5-A	Method Blank	97	89
MB 880-31729/5-A	Method Blank	93	98
MB 880-31731/5-A	Method Blank	92	80
MB 880-31834/5-A	Method Blank	98	93

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)
820-5243-1	CS-1	84	103
820-5243-1 MS	CS-1	80	83
820-5243-1 MSD	CS-1	72	79
820-5243-2	CS-2	92	100
820-5243-3	CS-3	99	120
820-5243-4	CS-4	83	98
820-5243-5	CS-5	94	106
820-5243-6	CS-6	85	103
820-5243-7	CS-7	82	98
820-5243-8	CS-8	86	101
820-5243-9	CS-9	95	108
820-5243-10	CS-10	87	102
820-5243-11	CS-11	85	98
820-5243-12	CS-12	83	97
820-5243-13	CS-13	104	128

Eurofins Lubbock

Surrogate Summary

Client: Terracon Consulting Eng & Scientists

Job ID: 820-5243-1

Project/Site: Libbey

SDG: AR217165

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

Matrix: Soil

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
820-5243-14	CS-14	88	104
820-5243-15	CS-15	80	95
820-5243-16	CS-16	80	95
820-5243-17	CS-17	80	94
820-5243-18	CS-18	81	95
820-5243-19	CS-19	94	108
820-5243-20	CS-20	104	127
820-5243-21	CS-21	101	146 S1+
820-5243-21 MS	CS-21	99	125
820-5243-21 MSD	CS-21	88	113
820-5243-22	CS-22	96	138 S1+
820-5243-23	CS-23	122	172 S1+
820-5243-24	CS-24	109	155 S1+
820-5243-25	CS-25	105	142 S1+
820-5243-26	CS-26	107	155 S1+
820-5243-27	CS-27	90	123
820-5243-28	CS-28	103	147 S1+
820-5243-29	CS-29	119	171 S1+
820-5243-30	CS-30	111	146 S1+
820-5243-31	CS-31	107	154 S1+
820-5243-32	CS-32	112	159 S1+
820-5243-33	CS-33	102	145 S1+
820-5243-34	CS-34	94	127
820-5243-35	CS-35	127	183 S1+
820-5243-36	CS-36	100	133 S1+
820-5243-37	CS-37	116	151 S1+
820-5243-38	CS-38	88	118
820-5243-39	CS-39	98	139 S1+
820-5243-40	CS-40	91	126
820-5243-41	CS-41	80	90
820-5243-41 MS	CS-41	73	73
820-5243-41 MSD	CS-41	81	82
820-5243-42	CS-42	79	99
820-5243-43	CS-43	81	98
820-5243-44	CS-44	75	88
820-5243-45	CS-45	78	95
820-5243-46	CS-46	75	89
820-5243-47	CS-47	75	86
820-5243-48	CS-48	77	93
820-5243-49	CS-49	82	101
820-5243-50	CS-50	80	100
820-5243-51	CS-51	72	85
820-5243-52	CS-52	76	87
820-5243-53	CS-53	77	89
820-5243-54	CS-54	74	85
820-5243-55	CS-55	78	92
820-5243-56	CS-56	89	102
820-5243-57	CS-57	78	93
820-5243-58	CS-58	81	93
820-5243-59	CS-59	76	90

Eurofins Lubbock

Surrogate Summary

Client: Terracon Consulting Eng & Scientists

Job ID: 820-5243-1

Project/Site: Libbey

SDG: AR217165

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

Matrix: Soil

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
820-5243-60	CS-60	73	85
820-5243-61	CS-61	99	110
820-5243-61 MS	CS-61	97	95
820-5243-61 MSD	CS-61	94	92
820-5243-62	CS-62	95	104
820-5243-63	CS-63	102	108
820-5243-64	CS-64	106	116
820-5243-65	CS-65	104	114
820-5243-66	CS-66	97	105
820-5243-67	CS-67	99	105
820-5243-68	CS-68	96	105
820-5243-69	CS-69	96	105
820-5243-70	CS-70	94	100
820-5243-71	CS-71	92	98
820-5243-72	CS-72	97	105
820-5243-73	CS-73	99	109
820-5243-74	CS-74	97	104
820-5243-75	CS-75	99	109
820-5243-76	CS-76	101	108
820-5243-77	CS-77	100	108
820-5243-78	CS-78	103	113
820-5243-79	CS-79	96	104
820-5243-80	CS-80	99	110
820-5243-81	CS-81	80	95
820-5243-81 MS	CS-81	75	80
820-5243-81 MSD	CS-81	74	79
820-5243-82	CS-82	78	92
820-5243-83	CS-83	86	103
820-5243-84	CS-84	80	93
820-5243-85	CS-85	97	116
820-5243-86	CS-86	83	95
820-5243-87	CS-87	85	99
820-5243-88	CS-88	83	96
820-5243-89	CS-89	85	99
820-5243-90	CS-90	84	100
820-5243-91	CS-91	86	101
820-5243-92	CS-92	87	104
820-5243-93	CS-93	86	97
820-5243-94	CS-94	94	109
820-5243-95	CS-95	86	100
820-5243-96	CS-96	87	102
820-5243-97	CS-97	87	102
820-5243-98	CS-98	85	100
820-5243-99	CS-99	87	101
820-5243-100	CS-100	87	101
820-5243-101	CS-101	94	105
820-5243-101 MS	CS-101	89	88
820-5243-101 MSD	CS-101	90	88
820-5243-102	CS-102	95	102
820-5243-103	CS-103	98	105

Eurofins Lubbock

Surrogate Summary

Client: Terracon Consulting Eng & Scientists

Job ID: 820-5243-1

Project/Site: Libbey

SDG: AR217165

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

Matrix: Soil

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
820-5243-104	CS-104	97	107
820-5243-105	CS-105	101	110
820-5243-106	CS-106	96	102
820-5243-107	CS-107	97	104
820-5243-108	CS-108	96	101
820-5243-109	CS-109	91	95
820-5243-110	CS-110	97	103
820-5243-111	CS-111	94	100
820-5243-112	CS-112	96	99
820-5243-113	CS-113	114	126
820-5243-114	CS-114	97	104
820-5243-115	CS-115	101	106
820-5243-116	CS-116	110	123
820-5243-117	CS-117	109	121
820-5243-118	CS-118	107	122
820-5243-119	CS-119	94	99
820-5243-120	CS-120	107	119
820-5243-121	CS-121	101	116
820-5243-122	CS-122	114	129
820-5243-123	SP-F	88	107

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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 880-31681/2-A	Lab Control Sample	151 S1+	146 S1+
LCS 880-31682/2-A	Lab Control Sample	113	150 S1+
LCS 880-31683/2-A	Lab Control Sample	91	98
LCS 880-31684/2-A	Lab Control Sample	104	109
LCS 880-31770/2-A	Lab Control Sample	122	150 S1+
LCSD 880-31681/3-A	Lab Control Sample Dup	121	144 S1+
LCSD 880-31682/3-A	Lab Control Sample Dup	108	141 S1+
LCSD 880-31683/3-A	Lab Control Sample Dup	101	112
LCSD 880-31684/3-A	Lab Control Sample Dup	103	108
LCSD 880-31770/3-A	Lab Control Sample Dup	118	142 S1+
MB 880-31681/1-A	Method Blank	100	121
MB 880-31682/1-A	Method Blank	108	155 S1+
MB 880-31683/1-A	Method Blank	78	97
MB 880-31684/1-A	Method Blank	96	108
MB 880-31765/1-A	Method Blank	91	115
MB 880-31766/1-A	Method Blank	108	128
MB 880-31770/1-A	Method Blank	95	117

Surrogate Legend

1CO = 1-Chlorooctane

Eurofins Lubbock

Surrogate Summary

Client: Terracon Consulting Eng & Scientists

Project/Site: Libbey

OTPH = o-Terphenyl

Job ID: 820-5243-1

SDG: AR217165

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-31523/5-A

Matrix: Solid

Analysis Batch: 31678

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31523

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/04/22 16:53	08/08/22 11:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/04/22 16:53	08/08/22 11:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/04/22 16:53	08/08/22 11:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/04/22 16:53	08/08/22 11:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/04/22 16:53	08/08/22 11:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/04/22 16:53	08/08/22 11:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	08/04/22 16:53	08/08/22 11:35	1
1,4-Difluorobenzene (Surr)	80		70 - 130	08/04/22 16:53	08/08/22 11:35	1

Lab Sample ID: MB 880-31606/5-A

Matrix: Solid

Analysis Batch: 31679

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31606

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/05/22 14:33	08/08/22 17:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/05/22 14:33	08/08/22 17:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/05/22 14:33	08/08/22 17:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/05/22 14:33	08/08/22 17:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/05/22 14:33	08/08/22 17:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/05/22 14:33	08/08/22 17:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	08/05/22 14:33	08/08/22 17:45	1
1,4-Difluorobenzene (Surr)	95		70 - 130	08/05/22 14:33	08/08/22 17:45	1

Lab Sample ID: LCSD 880-31606/2-A

Matrix: Solid

Analysis Batch: 31679

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 31606

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1087		mg/Kg		109	70 - 130	1	35
Toluene	0.100	0.1006		mg/Kg		101	70 - 130	1	35
Ethylbenzene	0.100	0.08233		mg/Kg		82	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1700		mg/Kg		85	70 - 130	1	35
o-Xylene	0.100	0.08486		mg/Kg		85	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: MB 880-31714/5-A

Matrix: Solid

Analysis Batch: 31835

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31714

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/08/22 09:51	08/09/22 11:33	1

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

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

Lab Sample ID: MB 880-31714/5-A

Matrix: Solid

Analysis Batch: 31835

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31714

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00199	U	0.00199		mg/Kg		08/08/22 09:51	08/09/22 11:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/08/22 09:51	08/09/22 11:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/08/22 09:51	08/09/22 11:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/08/22 09:51	08/09/22 11:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/08/22 09:51	08/09/22 11:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	08/08/22 09:51	08/09/22 11:33	1
1,4-Difluorobenzene (Surr)	90		70 - 130	08/08/22 09:51	08/09/22 11:33	1

Lab Sample ID: LCS 880-31714/1-A

Matrix: Solid

Analysis Batch: 31835

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31714

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Benzene	0.100	0.1035		mg/Kg		103	70 - 130
Toluene	0.100	0.1033		mg/Kg		103	70 - 130
Ethylbenzene	0.100	0.1051		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	0.200	0.2131		mg/Kg		107	70 - 130
o-Xylene	0.100	0.1152		mg/Kg		115	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-31714/2-A

Matrix: Solid

Analysis Batch: 31835

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 31714

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09069		mg/Kg		91	70 - 130	13	35
Toluene	0.100	0.09792		mg/Kg		98	70 - 130	5	35
Ethylbenzene	0.100	0.09608		mg/Kg		96	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.1950		mg/Kg		98	70 - 130	9	35
o-Xylene	0.100	0.1061		mg/Kg		106	70 - 130	8	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: 820-5243-1 MS

Matrix: Soil

Analysis Batch: 31835

Client Sample ID: CS-1

Prep Type: Total/NA

Prep Batch: 31714

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00200	U F1	0.101	0.03624	F1	mg/Kg		36	70 - 130
Toluene	<0.00200	U F1	0.101	0.04384	F1	mg/Kg		43	70 - 130
Ethylbenzene	<0.00200	U F1	0.101	0.05164	F1	mg/Kg		51	70 - 130

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

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

Lab Sample ID: 820-5243-1 MS

Matrix: Soil

Analysis Batch: 31835

Client Sample ID: CS-1

Prep Type: Total/NA

Prep Batch: 31714

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
m-Xylene & p-Xylene	<0.00399	U F1	0.201	0.1070	F1	mg/Kg		53	70 - 130
o-Xylene	<0.00200	U F1	0.101	0.06131	F1	mg/Kg		61	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: 820-5243-1 MSD

Matrix: Soil

Analysis Batch: 31835

Client Sample ID: CS-1

Prep Type: Total/NA

Prep Batch: 31714

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.100	0.03954	F1	mg/Kg		39	70 - 130	9	35
Toluene	<0.00200	U F1	0.100	0.04510	F1	mg/Kg		44	70 - 130	3	35
Ethylbenzene	<0.00200	U F1	0.100	0.05049	F1	mg/Kg		50	70 - 130	2	35
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1026	F1	mg/Kg		51	70 - 130	4	35
o-Xylene	<0.00200	U F1	0.100	0.05800	F1	mg/Kg		58	70 - 130	6	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: MB 880-31715/5-A

Matrix: Solid

Analysis Batch: 31679

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31715

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		08/08/22 09:59	08/09/22 01:00	1
Toluene	<0.00199	U	0.00199		mg/Kg		08/08/22 09:59	08/09/22 01:00	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		08/08/22 09:59	08/09/22 01:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		08/08/22 09:59	08/09/22 01:00	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		08/08/22 09:59	08/09/22 01:00	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		08/08/22 09:59	08/09/22 01:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	08/08/22 09:59	08/09/22 01:00	1
1,4-Difluorobenzene (Surr)	90		70 - 130	08/08/22 09:59	08/09/22 01:00	1

Lab Sample ID: LCS 880-31715/1-A

Matrix: Solid

Analysis Batch: 31679

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31715

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09612		mg/Kg		96	70 - 130
Toluene	0.100	0.09839		mg/Kg		98	70 - 130
Ethylbenzene	0.100	0.08221		mg/Kg		82	70 - 130
m-Xylene & p-Xylene	0.200	0.1717		mg/Kg		86	70 - 130
o-Xylene	0.100	0.08651		mg/Kg		87	70 - 130

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

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

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-31715/2-A

Matrix: Solid

Analysis Batch: 31679

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 31715

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08755		mg/Kg		88	70 - 130	9	35
Toluene	0.100	0.08856		mg/Kg		89	70 - 130	11	35
Ethylbenzene	0.100	0.07129		mg/Kg		71	70 - 130	14	35
m-Xylene & p-Xylene	0.200	0.1494		mg/Kg		75	70 - 130	14	35
o-Xylene	0.100	0.07499		mg/Kg		75	70 - 130	14	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 820-5243-21 MS

Matrix: Soil

Analysis Batch: 31679

Client Sample ID: CS-21

Prep Type: Total/NA

Prep Batch: 31715

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F2 F1	0.101	0.06715	F1	mg/Kg		65	70 - 130		
Toluene	<0.00200	U F1	0.101	0.07871		mg/Kg		78	70 - 130		
Ethylbenzene	<0.00200	U F1	0.101	0.06494	F1	mg/Kg		64	70 - 130		
m-Xylene & p-Xylene	<0.00399	U F1	0.202	0.1370	F1	mg/Kg		67	70 - 130		
o-Xylene	<0.00200	U F2 F1	0.101	0.06884	F1	mg/Kg		67	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 820-5243-21 MSD

Matrix: Soil

Analysis Batch: 31679

Client Sample ID: CS-21

Prep Type: Total/NA

Prep Batch: 31715

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F2 F1	0.100	<0.00200	U F2 F1	mg/Kg		0.3	70 - 130	192	35
Toluene	<0.00200	U F1	0.100	<0.00200	U F1	mg/Kg		0	70 - 130	NC	35
Ethylbenzene	<0.00200	U F1	0.100	<0.00200	U F1	mg/Kg		0	70 - 130	NC	35
m-Xylene & p-Xylene	<0.00399	U F1	0.200	<0.00401	U F1	mg/Kg		0	70 - 130	NC	35
o-Xylene	<0.00200	U F2 F1	0.100	<0.00200	U F2 F1	mg/Kg		-0.8	70 - 130	196	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

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

Lab Sample ID: MB 880-31716/5-A

Matrix: Solid

Analysis Batch: 31827

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31716

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:06	08/09/22 12:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:06	08/09/22 12:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:06	08/09/22 12:48	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/08/22 10:06	08/09/22 12:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:06	08/09/22 12:48	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/08/22 10:06	08/09/22 12:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	08/08/22 10:06	08/09/22 12:48	1
1,4-Difluorobenzene (Surr)	103		70 - 130	08/08/22 10:06	08/09/22 12:48	1

Lab Sample ID: LCS 880-31716/1-A

Matrix: Solid

Analysis Batch: 31827

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31716

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1015		mg/Kg		101	70 - 130
Toluene	0.100	0.1122		mg/Kg		112	70 - 130
Ethylbenzene	0.100	0.1168		mg/Kg		117	70 - 130
m-Xylene & p-Xylene	0.200	0.2368		mg/Kg		118	70 - 130
o-Xylene	0.100	0.1141		mg/Kg		114	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-31716/2-A

Matrix: Solid

Analysis Batch: 31827

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 31716

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1001		mg/Kg		100	70 - 130	1	35
Toluene	0.100	0.1074		mg/Kg		107	70 - 130	4	35
Ethylbenzene	0.100	0.1126		mg/Kg		113	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2281		mg/Kg		114	70 - 130	4	35
o-Xylene	0.100	0.1104		mg/Kg		110	70 - 130	3	35

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

Lab Sample ID: 820-5243-41 MS

Matrix: Soil

Analysis Batch: 31827

Client Sample ID: CS-41

Prep Type: Total/NA

Prep Batch: 31716

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.100	0.08900		mg/Kg		88	70 - 130
Toluene	<0.00201	U	0.100	0.07596		mg/Kg		76	70 - 130

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

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

Lab Sample ID: 820-5243-41 MS

Matrix: Soil

Analysis Batch: 31827

Client Sample ID: CS-41

Prep Type: Total/NA

Prep Batch: 31716

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U F1	0.100	0.06669	F1	mg/Kg		66	70 - 130
m-Xylene & p-Xylene	<0.00402	U F1	0.201	0.1333	F1	mg/Kg		66	70 - 130
o-Xylene	<0.00201	U F1	0.100	0.06786	F1	mg/Kg		68	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 820-5243-41 MSD

Matrix: Soil

Analysis Batch: 31827

Client Sample ID: CS-41

Prep Type: Total/NA

Prep Batch: 31716

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0994	0.09678		mg/Kg		97	70 - 130	8	35
Toluene	<0.00201	U	0.0994	0.08224		mg/Kg		83	70 - 130	8	35
Ethylbenzene	<0.00201	U F1	0.0994	0.07365		mg/Kg		74	70 - 130	10	35
m-Xylene & p-Xylene	<0.00402	U F1	0.199	0.1475		mg/Kg		74	70 - 130	10	35
o-Xylene	<0.00201	U F1	0.0994	0.07405		mg/Kg		74	70 - 130	9	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: MB 880-31717/5-A

Matrix: Solid

Analysis Batch: 31851

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31717

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:13	08/09/22 16:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:13	08/09/22 16:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:13	08/09/22 16:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/08/22 10:13	08/09/22 16:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:13	08/09/22 16:06	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/08/22 10:13	08/09/22 16:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	08/08/22 10:13	08/09/22 16:06	1
1,4-Difluorobenzene (Surr)	95		70 - 130	08/08/22 10:13	08/09/22 16:06	1

Lab Sample ID: LCS 880-31717/1-A

Matrix: Solid

Analysis Batch: 31851

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31717

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1057		mg/Kg		106	70 - 130
Toluene	0.100	0.09991		mg/Kg		100	70 - 130
Ethylbenzene	0.100	0.08219		mg/Kg		82	70 - 130
m-Xylene & p-Xylene	0.200	0.1716		mg/Kg		86	70 - 130

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

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

Lab Sample ID: LCS 880-31717/1-A

Matrix: Solid

Analysis Batch: 31851

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31717

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.08419		mg/Kg		84	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-31717/2-A

Matrix: Solid

Analysis Batch: 31851

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 31717

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1130		mg/Kg		113	70 - 130	7	35
Toluene	0.100	0.1081		mg/Kg		108	70 - 130	8	35
Ethylbenzene	0.100	0.08912		mg/Kg		89	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.1856		mg/Kg		93	70 - 130	8	35
o-Xylene	0.100	0.09096		mg/Kg		91	70 - 130	8	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 820-5243-61 MS

Matrix: Soil

Analysis Batch: 31851

Client Sample ID: CS-61

Prep Type: Total/NA

Prep Batch: 31717

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.101	0.1020		mg/Kg		100	70 - 130
Toluene	<0.00199	U	0.101	0.09476		mg/Kg		94	70 - 130
Ethylbenzene	<0.00199	U	0.101	0.07423		mg/Kg		72	70 - 130
m-Xylene & p-Xylene	0.00483		0.202	0.1530		mg/Kg		73	70 - 130
o-Xylene	0.00214		0.101	0.07498		mg/Kg		72	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 820-5243-61 MSD

Matrix: Soil

Analysis Batch: 31851

Client Sample ID: CS-61

Prep Type: Total/NA

Prep Batch: 31717

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.09984		mg/Kg		99	70 - 130	2	35
Toluene	<0.00199	U	0.100	0.09112		mg/Kg		91	70 - 130	4	35
Ethylbenzene	<0.00199	U	0.100	0.07106		mg/Kg		70	70 - 130	4	35
m-Xylene & p-Xylene	0.00483		0.200	0.1466		mg/Kg		71	70 - 130	4	35
o-Xylene	0.00214		0.100	0.07185		mg/Kg		70	70 - 130	4	35

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

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

Lab Sample ID: 820-5243-61 MSD

Matrix: Soil

Analysis Batch: 31851

Client Sample ID: CS-61

Prep Type: Total/NA

Prep Batch: 31717

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: MB 880-31728/5-A

Matrix: Solid

Analysis Batch: 31835

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31728

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:28	08/09/22 23:35	1	
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:28	08/09/22 23:35	1	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:28	08/09/22 23:35	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/08/22 10:28	08/09/22 23:35	1	
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:28	08/09/22 23:35	1	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/08/22 10:28	08/09/22 23:35	1	
	MB	MB								
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil	Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				08/08/22 10:28	08/09/22 23:35	1	
1,4-Difluorobenzene (Surr)	89		70 - 130				08/08/22 10:28	08/09/22 23:35	1	

Lab Sample ID: LCS 880-31728/1-A

Matrix: Solid

Analysis Batch: 31835

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31728

	Spike	LCS	LCS					%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Benzene	0.100	0.09912		mg/Kg		99	70 - 130			
Toluene	0.100	0.09518		mg/Kg		95	70 - 130			
Ethylbenzene	0.100	0.1027		mg/Kg		103	70 - 130			
m-Xylene & p-Xylene	0.200	0.2037		mg/Kg		102	70 - 130			
o-Xylene	0.100	0.1115		mg/Kg		111	70 - 130			
	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	106		70 - 130							
1,4-Difluorobenzene (Surr)	97		70 - 130							

Lab Sample ID: LCSD 880-31728/2-A

Matrix: Solid

Analysis Batch: 31835

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 31728

	Spike	LCSD	LCSD					%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.09549		mg/Kg		95	70 - 130	4	35	
Toluene	0.100	0.09967		mg/Kg		100	70 - 130	5	35	
Ethylbenzene	0.100	0.1079		mg/Kg		108	70 - 130	5	35	
m-Xylene & p-Xylene	0.200	0.2176		mg/Kg		109	70 - 130	7	35	
o-Xylene	0.100	0.1200		mg/Kg		120	70 - 130	7	35	
	LCSD	LCSD								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	115		70 - 130							

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

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

Lab Sample ID: LCSD 880-31728/2-A

Matrix: Solid

Analysis Batch: 31835

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 31728

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

Lab Sample ID: 820-5243-81 MS

Matrix: Soil

Analysis Batch: 31835

Client Sample ID: CS-81

Prep Type: Total/NA

Prep Batch: 31728

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.100	0.08604		mg/Kg		86	70 - 130	
Toluene	<0.00201	U	0.100	0.08196		mg/Kg		81	70 - 130	
Ethylbenzene	<0.00201	U	0.100	0.07693		mg/Kg		77	70 - 130	
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1529		mg/Kg		76	70 - 130	
o-Xylene	<0.00201	U	0.100	0.08998		mg/Kg		90	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 820-5243-81 MSD

Matrix: Soil

Analysis Batch: 31835

Client Sample ID: CS-81

Prep Type: Total/NA

Prep Batch: 31728

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	<0.00201	U	0.0994	0.08297		mg/Kg		83	70 - 130	4	35	
Toluene	<0.00201	U	0.0994	0.08217		mg/Kg		82	70 - 130	0	35	
Ethylbenzene	<0.00201	U	0.0994	0.07582		mg/Kg		76	70 - 130	1	35	
m-Xylene & p-Xylene	<0.00402	U	0.199	0.1476		mg/Kg		74	70 - 130	4	35	
o-Xylene	<0.00201	U	0.0994	0.08938		mg/Kg		90	70 - 130	1	35	

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: MB 880-31729/5-A

Matrix: Solid

Analysis Batch: 31827

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31729

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:35	08/10/22 00:27	1	
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:35	08/10/22 00:27	1	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:35	08/10/22 00:27	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/08/22 10:35	08/10/22 00:27	1	
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:35	08/10/22 00:27	1	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/08/22 10:35	08/10/22 00:27	1	

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac				
4-Bromofluorobenzene (Surr)	93		70 - 130	08/08/22 10:35	08/10/22 00:27	1				
1,4-Difluorobenzene (Surr)	98		70 - 130	08/08/22 10:35	08/10/22 00:27	1				

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

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

Lab Sample ID: LCS 880-31729/1-A

Matrix: Solid

Analysis Batch: 31827

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31729

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1131		mg/Kg		113	70 - 130
Toluene	0.100	0.1065		mg/Kg		107	70 - 130
Ethylbenzene	0.100	0.1077		mg/Kg		108	70 - 130
m-Xylene & p-Xylene	0.200	0.2194		mg/Kg		110	70 - 130
o-Xylene	0.100	0.1100		mg/Kg		110	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-31729/2-A

Matrix: Solid

Analysis Batch: 31827

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 31729

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1026		mg/Kg		103	70 - 130	10	35
Toluene	0.100	0.1081		mg/Kg		108	70 - 130	1	35
Ethylbenzene	0.100	0.1116		mg/Kg		112	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2299		mg/Kg		115	70 - 130	5	35
o-Xylene	0.100	0.1136		mg/Kg		114	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 820-5243-101 MS

Matrix: Soil

Analysis Batch: 31827

Client Sample ID: CS-101

Prep Type: Total/NA

Prep Batch: 31729

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.101	0.09103		mg/Kg		90	70 - 130
Toluene	<0.00202	U	0.101	0.09244		mg/Kg		92	70 - 130
Ethylbenzene	<0.00202	U	0.101	0.09373		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	<0.00404	U	0.201	0.1914		mg/Kg		95	70 - 130
o-Xylene	<0.00202	U	0.101	0.09425		mg/Kg		94	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 820-5243-101 MSD

Matrix: Soil

Analysis Batch: 31827

Client Sample ID: CS-101

Prep Type: Total/NA

Prep Batch: 31729

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.100	0.08714		mg/Kg		87	70 - 130	4	35
Toluene	<0.00202	U	0.100	0.09293		mg/Kg		93	70 - 130	1	35
Ethylbenzene	<0.00202	U	0.100	0.09213		mg/Kg		92	70 - 130	2	35

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

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

Lab Sample ID: 820-5243-101 MSD

Matrix: Soil

Analysis Batch: 31827

Client Sample ID: CS-101

Prep Type: Total/NA

Prep Batch: 31729

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00404	U	0.200	0.1876		mg/Kg		94	70 - 130	2	35
o-Xylene	<0.00202	U	0.100	0.09162		mg/Kg		91	70 - 130	3	35
Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	105		70 - 130								
1,4-Difluorobenzene (Surr)	95		70 - 130								

Lab Sample ID: MB 880-31731/5-A

Matrix: Solid

Analysis Batch: 31678

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31731

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:46	08/09/22 01:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:46	08/09/22 01:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:46	08/09/22 01:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/08/22 10:46	08/09/22 01:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 10:46	08/09/22 01:11	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/08/22 10:46	08/09/22 01:11	1
Surrogate	MB %Recovery	MB Qualifier	MB Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130				08/08/22 10:46	08/09/22 01:11	1
1,4-Difluorobenzene (Surr)	80		70 - 130				08/08/22 10:46	08/09/22 01:11	1

Lab Sample ID: LCS 880-31731/1-A

Matrix: Solid

Analysis Batch: 31678

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31731

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08288		mg/Kg		83	70 - 130
Toluene	0.100	0.08549		mg/Kg		85	70 - 130
Ethylbenzene	0.100	0.08686		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	0.200	0.1774		mg/Kg		89	70 - 130
o-Xylene	0.100	0.09732		mg/Kg		97	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	LCS Limits				
4-Bromofluorobenzene (Surr)	125		70 - 130				
1,4-Difluorobenzene (Surr)	85		70 - 130				

Lab Sample ID: LCSD 880-31731/2-A

Matrix: Solid

Analysis Batch: 31678

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 31731

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08517		mg/Kg		85	70 - 130	3	35
Toluene	0.100	0.09048		mg/Kg		90	70 - 130	6	35
Ethylbenzene	0.100	0.08974		mg/Kg		90	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1833		mg/Kg		92	70 - 130	3	35
o-Xylene	0.100	0.09907		mg/Kg		99	70 - 130	2	35

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

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

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	83		70 - 130

Lab Sample ID: 820-5243-121 MS

Matrix: Soil

Analysis Batch: 31678

Client Sample ID: CS-121

Prep Type: Total/NA

Prep Batch: 31731

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U F1 F2	0.101	0.007984	F1	mg/Kg		8	70 - 130
Toluene	<0.00199	U F2 F1	0.101	0.009017	F1	mg/Kg		9	70 - 130
Ethylbenzene	<0.00199	U F2 F1	0.101	0.009234	F1	mg/Kg		9	70 - 130
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.202	0.01864	F1	mg/Kg		9	70 - 130
o-Xylene	<0.00199	U F2 F1	0.101	0.01047	F1	mg/Kg		10	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	83		70 - 130

Lab Sample ID: 820-5243-121 MSD

Matrix: Soil

Analysis Batch: 31678

Client Sample ID: CS-121

Prep Type: Total/NA

Prep Batch: 31731

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00199	U F1 F2	0.101	0.004525	F1 F2	mg/Kg		4	70 - 130	55	35
Toluene	<0.00199	U F2 F1	0.101	0.003980	F1 F2	mg/Kg		4	70 - 130	78	35
Ethylbenzene	<0.00199	U F2 F1	0.101	0.004221	F1 F2	mg/Kg		4	70 - 130	75	35
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.201	0.008636	F1 F2	mg/Kg		4	70 - 130	73	35
o-Xylene	<0.00199	U F2 F1	0.101	0.005003	F1 F2	mg/Kg		5	70 - 130	71	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: MB 880-31834/5-A

Matrix: Solid

Analysis Batch: 31851

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31834

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/09/22 08:41	08/10/22 02:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/09/22 08:41	08/10/22 02:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/09/22 08:41	08/10/22 02:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/09/22 08:41	08/10/22 02:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/09/22 08:41	08/10/22 02:52	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/09/22 08:41	08/10/22 02:52	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	98		70 - 130	08/09/22 08:41	08/10/22 02:52	1			
1,4-Difluorobenzene (Surr)	93		70 - 130	08/09/22 08:41	08/10/22 02:52	1			

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

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

Lab Sample ID: LCS 880-31834/1-A

Matrix: Solid

Analysis Batch: 31851

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31834

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1002		mg/Kg		100	70 - 130
Toluene	0.100	0.09582		mg/Kg		96	70 - 130
Ethylbenzene	0.100	0.07829		mg/Kg		78	70 - 130
m-Xylene & p-Xylene	0.200	0.1630		mg/Kg		82	70 - 130
o-Xylene	0.100	0.08318		mg/Kg		83	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: LCSD 880-31834/2-A

Matrix: Solid

Analysis Batch: 31851

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 31834

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08862		mg/Kg		89	70 - 130	12	35
Toluene	0.100	0.1079		mg/Kg		108	70 - 130	12	35
Ethylbenzene	0.100	0.09720		mg/Kg		97	70 - 130	22	35
m-Xylene & p-Xylene	0.200	0.2134		mg/Kg		107	70 - 130	27	35
o-Xylene	0.100	0.1062		mg/Kg		106	70 - 130	24	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

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

Lab Sample ID: MB 880-31681/1-A

Matrix: Solid

Analysis Batch: 31670

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31681

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		08/08/22 08:19	08/08/22 10:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 08:19	08/08/22 10:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 08:19	08/08/22 10:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	08/08/22 08:19	08/08/22 10:39	1
o-Terphenyl	121		70 - 130	08/08/22 08:19	08/08/22 10:39	1

Lab Sample ID: LCS 880-31681/2-A

Matrix: Solid

Analysis Batch: 31670

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31681

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1036		mg/Kg		104	70 - 130

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

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

Lab Sample ID: LCS 880-31681/2-A

Matrix: Solid

Analysis Batch: 31670

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31681

			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Diesel Range Organics (Over C10-C28)			1000	1155		mg/Kg		115	70 - 130		
Surrogate	LCS		Limits								
	%Recovery	Qualifier									
1-Chlorooctane	151	S1+	70 - 130								
o-Terphenyl	146	S1+	70 - 130								

Lab Sample ID: LCSD 880-31681/3-A

Matrix: Solid

Analysis Batch: 31670

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 31681

			Spike	LCSD	LCSD				%Rec	RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	807.9	*1	mg/Kg	-	81	70 - 130	25	20
Diesel Range Organics (Over C10-C28)			1000	1078		mg/Kg		108	70 - 130	7	20
			LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	121		70 - 130								
o-Terphenyl	144	S1+	70 - 130								

Lab Sample ID: 820-5243-1 MS

Matrix: Soil

Analysis Batch: 31670

Client Sample ID: CS-1

Prep Type: Total/NA

Prep Batch: 31681

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	999	951.1		mg/Kg		95	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	999	845.5		mg/Kg		82	70 - 130		
		</									

Lab Sample ID: 820-5243-1 MSD

Matrix: Soil

Analysis Batch: 31670

Client Sample ID: CS-1

Prep Type: Total/NA

Prep Batch: 31681

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	999	997.0		mg/Kg		100	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	799.6		mg/Kg		78	70 - 130	6	20

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

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

Lab Sample ID: MB 880-31682/1-A

Matrix: Solid

Analysis Batch: 31672

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31682

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		08/08/22 08:21	08/08/22 20:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 08:21	08/08/22 20:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 08:21	08/08/22 20:26	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				08/08/22 08:21	08/08/22 20:26	1
o-Terphenyl	155	S1+	70 - 130				08/08/22 08:21	08/08/22 20:26	1

Lab Sample ID: LCS 880-31682/2-A

Matrix: Solid

Analysis Batch: 31672

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31682

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	500	588.1		mg/Kg		118	70 - 130
Diesel Range Organics (Over C10-C28)	500	607.0		mg/Kg		121	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	113		70 - 130				
o-Terphenyl	150	S1+	70 - 130				

Lab Sample ID: LCSD 880-31682/3-A

Matrix: Solid

Analysis Batch: 31672

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 31682

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	500	536.1		mg/Kg		107	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	500	567.3		mg/Kg		113	70 - 130	7	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	108		70 - 130						
o-Terphenyl	141	S1+	70 - 130						

Lab Sample ID: 820-5243-21 MS

Matrix: Soil

Analysis Batch: 31672

Client Sample ID: CS-21

Prep Type: Total/NA

Prep Batch: 31682

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	500	590.0		mg/Kg		118	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	500	605.4		mg/Kg		117	70 - 130

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

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

Lab Sample ID: 820-5243-21 MS

Matrix: Soil

Analysis Batch: 31672

Client Sample ID: CS-21

Prep Type: Total/NA

Prep Batch: 31682

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	125		70 - 130

Lab Sample ID: 820-5243-21 MSD

Matrix: Soil

Analysis Batch: 31672

Client Sample ID: CS-21

Prep Type: Total/NA

Prep Batch: 31682

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	500	590.6		mg/Kg		118	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U	500	547.7		mg/Kg		105	70 - 130	10	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	113		70 - 130

Lab Sample ID: MB 880-31683/1-A

Matrix: Solid

Analysis Batch: 31676

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31683

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		08/08/22 08:22	08/08/22 10:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 08:22	08/08/22 10:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 08:22	08/08/22 10:14	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane	78		70 - 130	08/08/22 08:22	08/08/22 10:14	1
o-Terphenyl	97		70 - 130	08/08/22 08:22	08/08/22 10:14	1

Lab Sample ID: LCS 880-31683/2-A

Matrix: Solid

Analysis Batch: 31676

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31683

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	860.8		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	1000	916.1		mg/Kg		92	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	91		70 - 130
o-Terphenyl	98		70 - 130

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

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

Lab Sample ID: LCSD 880-31683/3-A

Matrix: Solid

Analysis Batch: 31676

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 31683

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	940.4		mg/Kg		94	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	1000	936.9		mg/Kg		94	70 - 130	2	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	101		70 - 130						
o-Terphenyl	112		70 - 130						

Lab Sample ID: 820-5243-41 MS

Matrix: Soil

Analysis Batch: 31676

Client Sample ID: CS-41

Prep Type: Total/NA

Prep Batch: 31683

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	999	879.8		mg/Kg		86	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	999	855.0		mg/Kg		86	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	73		70 - 130								
o-Terphenyl	73		70 - 130								

Lab Sample ID: 820-5243-41 MSD

Matrix: Soil

Analysis Batch: 31676

Client Sample ID: CS-41

Prep Type: Total/NA

Prep Batch: 31683

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	992.2		mg/Kg		97	70 - 130	12	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	927.1		mg/Kg		93	70 - 130	8	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	81		70 - 130								
o-Terphenyl	82		70 - 130								

Lab Sample ID: MB 880-31684/1-A

Matrix: Solid

Analysis Batch: 31674

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31684

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		08/08/22 08:23	08/08/22 10:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 08:23	08/08/22 10:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 08:23	08/08/22 10:14	1

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

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

Lab Sample ID: MB 880-31684/1-A

Matrix: Solid

Analysis Batch: 31674

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31684

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	08/08/22 08:23	08/08/22 10:14	1
o-Terphenyl	108		70 - 130	08/08/22 08:23	08/08/22 10:14	1

Lab Sample ID: LCS 880-31684/2-A

Matrix: Solid

Analysis Batch: 31674

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31684

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1038		mg/Kg		104	70 - 130
Diesel Range Organics (Over C10-C28)	1000	944.5		mg/Kg		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	109		70 - 130

Lab Sample ID: LCSD 880-31684/3-A

Matrix: Solid

Analysis Batch: 31674

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 31684

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	827.7	*1	mg/Kg		83	70 - 130	23	20
Diesel Range Organics (Over C10-C28)	1000	941.8		mg/Kg		94	70 - 130	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	108		70 - 130

Lab Sample ID: 820-5243-61 MS

Matrix: Soil

Analysis Batch: 31674

Client Sample ID: CS-61

Prep Type: Total/NA

Prep Batch: 31684

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 *1	999	1101		mg/Kg		110	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1133		mg/Kg		110	70 - 130

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

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

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

Lab Sample ID: 820-5243-61 MSD

Matrix: Soil

Analysis Batch: 31674

Client Sample ID: CS-61

Prep Type: Total/NA

Prep Batch: 31684

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 *1	999	1090		mg/Kg		109	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1111		mg/Kg		108	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	94		70 - 130								
o-Terphenyl	92		70 - 130								

Lab Sample ID: MB 880-31765/1-A

Matrix: Solid

Analysis Batch: 31676

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31765

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		08/08/22 12:56	08/08/22 19:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 12:56	08/08/22 19:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 12:56	08/08/22 19:56	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				08/08/22 12:56	08/08/22 19:56	1
o-Terphenyl	115		70 - 130				08/08/22 12:56	08/08/22 19:56	1

Lab Sample ID: LCS 880-31765/2-A

Matrix: Solid

Analysis Batch: 31676

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31765

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1118		mg/Kg		112	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	970.2		mg/Kg		97	70 - 130		

Lab Sample ID: LCSD 880-31765/3-A

Matrix: Solid

Analysis Batch: 31676

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 31765

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	929.0		mg/Kg		93	70 - 130	18	20
Diesel Range Organics (Over C10-C28)	1000	945.0		mg/Kg		95	70 - 130	3	20

Lab Sample ID: 820-5243-81 MS

Matrix: Soil

Analysis Batch: 31676

Client Sample ID: CS-81

Prep Type: Total/NA

Prep Batch: 31765

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	999	998.3		mg/Kg		98	70 - 130		

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

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

Lab Sample ID: 820-5243-81 MS

Matrix: Soil

Analysis Batch: 31676

Client Sample ID: CS-81

Prep Type: Total/NA

Prep Batch: 31765

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (Over C10-C28)	<49.9	U	999	699.6		mg/Kg		70	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	75		70 - 130						
o-Terphenyl	80		70 - 130						

Lab Sample ID: 820-5243-81 MSD

Matrix: Soil

Analysis Batch: 31676

Client Sample ID: CS-81

Prep Type: Total/NA

Prep Batch: 31765

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	951.2		mg/Kg		93	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	697.5		mg/Kg		70	70 - 130	0	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	74		70 - 130								
o-Terphenyl	79		70 - 130								

Lab Sample ID: MB 880-31766/1-A

Matrix: Solid

Analysis Batch: 31674

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31766

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		08/08/22 12:59	08/08/22 19:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 12:59	08/08/22 19:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 12:59	08/08/22 19:56	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				08/08/22 12:59	08/08/22 19:56	1
o-Terphenyl	128		70 - 130				08/08/22 12:59	08/08/22 19:56	1

Lab Sample ID: LCS 880-31766/2-A

Matrix: Solid

Analysis Batch: 31674

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31766

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	864.5		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1024		mg/Kg		102	70 - 130

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

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

Lab Sample ID: LCSD 880-31766/3-A

Matrix: Solid

Analysis Batch: 31674

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 31766

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	860.5		mg/Kg		86	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	1016		mg/Kg		102	70 - 130	1	20

Lab Sample ID: 820-5243-101 MS

Matrix: Soil

Analysis Batch: 31674

Client Sample ID: CS-101

Prep Type: Total/NA

Prep Batch: 31766

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	999	1081		mg/Kg		108	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	999	853.6		mg/Kg		85	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	89		70 - 130								
o-Terphenyl	88		70 - 130								

Lab Sample ID: 820-5243-101 MSD

Matrix: Soil

Analysis Batch: 31674

Client Sample ID: CS-101

Prep Type: Total/NA

Prep Batch: 31766

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	1044		mg/Kg		105	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	876.8		mg/Kg		88	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	90		70 - 130								
o-Terphenyl	88		70 - 130								

Lab Sample ID: MB 880-31770/1-A

Matrix: Solid

Analysis Batch: 31670

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31770

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		08/08/22 14:08	08/08/22 20:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/08/22 14:08	08/08/22 20:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/08/22 14:08	08/08/22 20:26	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				08/08/22 14:08	08/08/22 20:26	1
o-Terphenyl	117		70 - 130				08/08/22 14:08	08/08/22 20:26	1

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

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

Lab Sample ID: LCS 880-31770/2-A

Matrix: Solid

Analysis Batch: 31670

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31770

			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	984.0		mg/Kg		98	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1141		mg/Kg		114	70 - 130		

Lab Sample ID: LCSD 880-31770/3-A

Matrix: Solid

Analysis Batch: 31670

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 31770

			Spike	LCSD	LCSD				%Rec			RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10			1000	1015		mg/Kg		101	70 - 130	3	20	
Diesel Range Organics (Over C10-C28)			1000	1093		mg/Kg		109	70 - 130	4	20	
			LCSD	LCSD								
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	118		70 - 130									
o-Terphenyl	142	S1+	70 - 130									

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-31639/1-B

Matrix: Solid

Analysis Batch: 31796

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			08/09/22 05:21	1

Lab Sample ID: LCS 880-31639/2-B

Matrix: Solid

Analysis Batch: 31796

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	229.4		mg/Kg		92	90 - 110

Lab Sample ID: LCSD 880-31639/3-B

Matrix: Solid

Analysis Batch: 31796

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	230.8		mg/Kg		92	90 - 110	1	20

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 820-5243-1 MS

Matrix: Soil

Analysis Batch: 31796

Client Sample ID: CS-1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.9	F1	2480	<49.5	U F1	mg/Kg		0	90 - 110

Lab Sample ID: 820-5243-1 MSD

Matrix: Soil

Analysis Batch: 31796

Client Sample ID: CS-1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.9	F1	2480	<49.5	U F1	mg/Kg		0	90 - 110	NC	20

Lab Sample ID: MB 880-31645/1-A

Matrix: Solid

Analysis Batch: 31905

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			08/10/22 14:25	1

Lab Sample ID: LCS 880-31645/2-A

Matrix: Solid

Analysis Batch: 31905

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	242.0		mg/Kg		97	90 - 110

Lab Sample ID: LCSD 880-31645/3-A

Matrix: Solid

Analysis Batch: 31905

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	256.8		mg/Kg		103	90 - 110	6	20

Lab Sample ID: 820-5243-111 MS

Matrix: Soil

Analysis Batch: 31905

Client Sample ID: CS-111

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	440		249	683.3		mg/Kg		98	90 - 110

Lab Sample ID: 820-5243-111 MSD

Matrix: Soil

Analysis Batch: 31905

Client Sample ID: CS-111

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	440		249	702.7		mg/Kg		105	90 - 110	3	20

Lab Sample ID: 820-5243-121 MS

Matrix: Soil

Analysis Batch: 31905

Client Sample ID: CS-121

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10400	F1	5000	16760	F1	mg/Kg		127	90 - 110

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 820-5243-121 MSD

Matrix: Soil

Analysis Batch: 31905

Client Sample ID: CS-121

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10400	F1	5000	16590	F1	mg/Kg		124	90 - 110	1	20

Lab Sample ID: MB 880-31641/1-A

Matrix: Solid

Analysis Batch: 31907

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			08/10/22 08:31	1

Lab Sample ID: LCS 880-31641/2-A

Matrix: Solid

Analysis Batch: 31907

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	240.7		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-31641/3-A

Matrix: Solid

Analysis Batch: 31907

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	248.3		mg/Kg		99	90 - 110	3	20

Lab Sample ID: 820-5243-31 MS

Matrix: Soil

Analysis Batch: 31907

Client Sample ID: CS-31

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	8.08		250	265.3		mg/Kg		103	90 - 110

Lab Sample ID: 820-5243-31 MSD

Matrix: Soil

Analysis Batch: 31907

Client Sample ID: CS-31

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	8.08		250	261.3		mg/Kg		101	90 - 110	2	20

Lab Sample ID: 820-5243-41 MS

Matrix: Soil

Analysis Batch: 31907

Client Sample ID: CS-41

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5.91		250	278.3		mg/Kg		109	90 - 110

Lab Sample ID: 820-5243-41 MSD

Matrix: Soil

Analysis Batch: 31907

Client Sample ID: CS-41

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	5.91		250	266.6		mg/Kg		104	90 - 110	4	20

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-31640/1-A

Matrix: Solid

Analysis Batch: 31908

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			08/10/22 23:14	1

Lab Sample ID: LCS 880-31640/2-A

Matrix: Solid

Analysis Batch: 31908

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	237.3		mg/Kg		95	90 - 110

Lab Sample ID: LCSD 880-31640/3-A

Matrix: Solid

Analysis Batch: 31908

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	238.0		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 820-5243-11 MS

Matrix: Soil

Analysis Batch: 31908

Client Sample ID: CS-11

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	14.5	F1 F2	248	275.5		mg/Kg		105	90 - 110

Lab Sample ID: 820-5243-11 MSD

Matrix: Soil

Analysis Batch: 31908

Client Sample ID: CS-11

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	14.5	F1 F2	248	207.3	F1 F2	mg/Kg		78	90 - 110	28	20

Lab Sample ID: 820-5243-21 MS

Matrix: Soil

Analysis Batch: 31908

Client Sample ID: CS-21

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	<4.97	U	249	268.2		mg/Kg		106	90 - 110

Lab Sample ID: 820-5243-21 MSD

Matrix: Soil

Analysis Batch: 31908

Client Sample ID: CS-21

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<4.97	U	249	268.0		mg/Kg		106	90 - 110	0	20

Lab Sample ID: MB 880-31643/1-A

Matrix: Solid

Analysis Batch: 31909

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			08/10/22 07:22	1

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-31643/2-A

Matrix: Solid

Analysis Batch: 31909

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	175.3	*-	mg/Kg		70	90 - 110

Lab Sample ID: LCSD 880-31643/3-A

Matrix: Solid

Analysis Batch: 31909

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	231.7	*1	mg/Kg		93	90 - 110	28	20

Lab Sample ID: 820-5243-71 MS

Matrix: Soil

Analysis Batch: 31909

Client Sample ID: CS-71

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	14.4	*- *1	248	255.2		mg/Kg		97	90 - 110

Lab Sample ID: 820-5243-71 MSD

Matrix: Soil

Analysis Batch: 31909

Client Sample ID: CS-71

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	14.4	*- *1	248	256.4		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 820-5243-81 MS

Matrix: Soil

Analysis Batch: 31909

Client Sample ID: CS-81

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	4770	*- *1	2480	7058		mg/Kg		92	90 - 110

Lab Sample ID: 820-5243-81 MSD

Matrix: Soil

Analysis Batch: 31909

Client Sample ID: CS-81

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	4770	*- *1	2480	7054		mg/Kg		92	90 - 110	0	20

Lab Sample ID: MB 880-31644/1-A

Matrix: Solid

Analysis Batch: 31910

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			08/10/22 11:41	1

Lab Sample ID: LCS 880-31644/2-A

Matrix: Solid

Analysis Batch: 31910

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	233.3		mg/Kg		93	90 - 110

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-31644/3-A

Matrix: Solid

Analysis Batch: 31910

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	233.7		mg/Kg		93	90 - 110	0	20

Lab Sample ID: 820-5243-91 MS

Matrix: Soil

Analysis Batch: 31910

Client Sample ID: CS-91

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	12.4		253	267.5		mg/Kg		101	90 - 110		

Lab Sample ID: 820-5243-91 MSD

Matrix: Soil

Analysis Batch: 31910

Client Sample ID: CS-91

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	12.4		253	270.8		mg/Kg		102	90 - 110	1	20

Lab Sample ID: 820-5243-101 MS

Matrix: Soil

Analysis Batch: 31910

Client Sample ID: CS-101

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	18.1	F1 F2	253	269.6		mg/Kg		100	90 - 110		

Lab Sample ID: 820-5243-101 MSD

Matrix: Soil

Analysis Batch: 31910

Client Sample ID: CS-101

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	18.1	F1 F2	253	205.9	F1 F2	mg/Kg		74	90 - 110	27	20

Lab Sample ID: MB 880-31642/1-A

Matrix: Solid

Analysis Batch: 31939

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			08/10/22 16:48	1

Lab Sample ID: LCS 880-31642/2-A

Matrix: Solid

Analysis Batch: 31939

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	235.7		mg/Kg		94	90 - 110		

Lab Sample ID: LCSD 880-31642/3-A

Matrix: Solid

Analysis Batch: 31939

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	237.4		mg/Kg		95	90 - 110	1	20

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QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 820-5243-51 MS

Matrix: Soil

Analysis Batch: 31939

Client Sample ID: CS-51

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	35.5	F1 F2	250	213.7	F1	mg/Kg		71	90 - 110		

Lab Sample ID: 820-5243-51 MSD

Matrix: Soil

Analysis Batch: 31939

Client Sample ID: CS-51

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	35.5	F1 F2	250	283.5	F2	mg/Kg		99	90 - 110	28	20

Lab Sample ID: 820-5243-61 MS

Matrix: Soil

Analysis Batch: 31939

Client Sample ID: CS-61

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	29.4		252	280.2		mg/Kg		100	90 - 110		

Lab Sample ID: 820-5243-61 MSD

Matrix: Soil

Analysis Batch: 31939

Client Sample ID: CS-61

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	29.4		252	281.5		mg/Kg		100	90 - 110	0	20

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

GC VOA

Prep Batch: 31523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-31523/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 31606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-31606/5-A	Method Blank	Total/NA	Solid	5035	
LCSD 880-31606/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 31678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-121	CS-121	Total/NA	Soil	8021B	31731
820-5243-122	CS-122	Total/NA	Soil	8021B	31731
820-5243-123	SP-F	Total/NA	Soil	8021B	31731
MB 880-31523/5-A	Method Blank	Total/NA	Solid	8021B	31523
MB 880-31731/5-A	Method Blank	Total/NA	Solid	8021B	31731
LCS 880-31731/1-A	Lab Control Sample	Total/NA	Solid	8021B	31731
LCSD 880-31731/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31731
820-5243-121 MS	CS-121	Total/NA	Soil	8021B	31731
820-5243-121 MSD	CS-121	Total/NA	Soil	8021B	31731

Analysis Batch: 31679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-21	CS-21	Total/NA	Soil	8021B	31715
820-5243-22	CS-22	Total/NA	Soil	8021B	31715
820-5243-23	CS-23	Total/NA	Soil	8021B	31715
820-5243-24	CS-24	Total/NA	Soil	8021B	31715
820-5243-25	CS-25	Total/NA	Soil	8021B	31715
820-5243-26	CS-26	Total/NA	Soil	8021B	31715
820-5243-27	CS-27	Total/NA	Soil	8021B	31715
820-5243-28	CS-28	Total/NA	Soil	8021B	31715
820-5243-29	CS-29	Total/NA	Soil	8021B	31715
820-5243-30	CS-30	Total/NA	Soil	8021B	31715
820-5243-31	CS-31	Total/NA	Soil	8021B	31715
820-5243-32	CS-32	Total/NA	Soil	8021B	31715
820-5243-33	CS-33	Total/NA	Soil	8021B	31715
820-5243-34	CS-34	Total/NA	Soil	8021B	31715
820-5243-35	CS-35	Total/NA	Soil	8021B	31715
820-5243-36	CS-36	Total/NA	Soil	8021B	31715
820-5243-37	CS-37	Total/NA	Soil	8021B	31715
820-5243-38	CS-38	Total/NA	Soil	8021B	31715
820-5243-39	CS-39	Total/NA	Soil	8021B	31715
820-5243-40	CS-40	Total/NA	Soil	8021B	31715
MB 880-31606/5-A	Method Blank	Total/NA	Solid	8021B	31606
MB 880-31715/5-A	Method Blank	Total/NA	Solid	8021B	31715
LCS 880-31715/1-A	Lab Control Sample	Total/NA	Solid	8021B	31715
LCSD 880-31606/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31606
LCSD 880-31715/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31715
820-5243-21 MS	CS-21	Total/NA	Soil	8021B	31715
820-5243-21 MSD	CS-21	Total/NA	Soil	8021B	31715

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

GC VOA

Prep Batch: 31714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-1	CS-1	Total/NA	Soil	5035	
820-5243-2	CS-2	Total/NA	Soil	5035	
820-5243-3	CS-3	Total/NA	Soil	5035	
820-5243-4	CS-4	Total/NA	Soil	5035	
820-5243-5	CS-5	Total/NA	Soil	5035	
820-5243-6	CS-6	Total/NA	Soil	5035	
820-5243-7	CS-7	Total/NA	Soil	5035	
820-5243-8	CS-8	Total/NA	Soil	5035	
820-5243-9	CS-9	Total/NA	Soil	5035	
820-5243-10	CS-10	Total/NA	Soil	5035	
820-5243-11	CS-11	Total/NA	Soil	5035	
820-5243-12	CS-12	Total/NA	Soil	5035	
820-5243-13	CS-13	Total/NA	Soil	5035	
820-5243-14	CS-14	Total/NA	Soil	5035	
820-5243-15	CS-15	Total/NA	Soil	5035	
820-5243-16	CS-16	Total/NA	Soil	5035	
820-5243-17	CS-17	Total/NA	Soil	5035	
820-5243-18	CS-18	Total/NA	Soil	5035	
820-5243-19	CS-19	Total/NA	Soil	5035	
820-5243-20	CS-20	Total/NA	Soil	5035	
MB 880-31714/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31714/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31714/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
820-5243-1 MS	CS-1	Total/NA	Soil	5035	
820-5243-1 MSD	CS-1	Total/NA	Soil	5035	

Prep Batch: 31715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-21	CS-21	Total/NA	Soil	5035	
820-5243-22	CS-22	Total/NA	Soil	5035	
820-5243-23	CS-23	Total/NA	Soil	5035	
820-5243-24	CS-24	Total/NA	Soil	5035	
820-5243-25	CS-25	Total/NA	Soil	5035	
820-5243-26	CS-26	Total/NA	Soil	5035	
820-5243-27	CS-27	Total/NA	Soil	5035	
820-5243-28	CS-28	Total/NA	Soil	5035	
820-5243-29	CS-29	Total/NA	Soil	5035	
820-5243-30	CS-30	Total/NA	Soil	5035	
820-5243-31	CS-31	Total/NA	Soil	5035	
820-5243-32	CS-32	Total/NA	Soil	5035	
820-5243-33	CS-33	Total/NA	Soil	5035	
820-5243-34	CS-34	Total/NA	Soil	5035	
820-5243-35	CS-35	Total/NA	Soil	5035	
820-5243-36	CS-36	Total/NA	Soil	5035	
820-5243-37	CS-37	Total/NA	Soil	5035	
820-5243-38	CS-38	Total/NA	Soil	5035	
820-5243-39	CS-39	Total/NA	Soil	5035	
820-5243-40	CS-40	Total/NA	Soil	5035	
MB 880-31715/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31715/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31715/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

GC VOA (Continued)

Prep Batch: 31715 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-21 MS	CS-21	Total/NA	Soil	5035	
820-5243-21 MSD	CS-21	Total/NA	Soil	5035	

Prep Batch: 31716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-41	CS-41	Total/NA	Soil	5035	
820-5243-42	CS-42	Total/NA	Soil	5035	
820-5243-43	CS-43	Total/NA	Soil	5035	
820-5243-44	CS-44	Total/NA	Soil	5035	
820-5243-45	CS-45	Total/NA	Soil	5035	
820-5243-46	CS-46	Total/NA	Soil	5035	
820-5243-47	CS-47	Total/NA	Soil	5035	
820-5243-48	CS-48	Total/NA	Soil	5035	
820-5243-49	CS-49	Total/NA	Soil	5035	
820-5243-50	CS-50	Total/NA	Soil	5035	
820-5243-51	CS-51	Total/NA	Soil	5035	
820-5243-52	CS-52	Total/NA	Soil	5035	
820-5243-53	CS-53	Total/NA	Soil	5035	
820-5243-54	CS-54	Total/NA	Soil	5035	
820-5243-55	CS-55	Total/NA	Soil	5035	
820-5243-56	CS-56	Total/NA	Soil	5035	
820-5243-57	CS-57	Total/NA	Soil	5035	
820-5243-58	CS-58	Total/NA	Soil	5035	
820-5243-59	CS-59	Total/NA	Soil	5035	
820-5243-60	CS-60	Total/NA	Soil	5035	
MB 880-31716/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31716/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31716/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
820-5243-41 MS	CS-41	Total/NA	Soil	5035	
820-5243-41 MSD	CS-41	Total/NA	Soil	5035	

Prep Batch: 31717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-61	CS-61	Total/NA	Soil	5035	
820-5243-62	CS-62	Total/NA	Soil	5035	
820-5243-63	CS-63	Total/NA	Soil	5035	
820-5243-64	CS-64	Total/NA	Soil	5035	
820-5243-65	CS-65	Total/NA	Soil	5035	
820-5243-66	CS-66	Total/NA	Soil	5035	
820-5243-67	CS-67	Total/NA	Soil	5035	
820-5243-68	CS-68	Total/NA	Soil	5035	
820-5243-69	CS-69	Total/NA	Soil	5035	
820-5243-70	CS-70	Total/NA	Soil	5035	
820-5243-71	CS-71	Total/NA	Soil	5035	
820-5243-72	CS-72	Total/NA	Soil	5035	
820-5243-73	CS-73	Total/NA	Soil	5035	
820-5243-74	CS-74	Total/NA	Soil	5035	
820-5243-75	CS-75	Total/NA	Soil	5035	
820-5243-76	CS-76	Total/NA	Soil	5035	
820-5243-77	CS-77	Total/NA	Soil	5035	
820-5243-78	CS-78	Total/NA	Soil	5035	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

GC VOA (Continued)

Prep Batch: 31717 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-79	CS-79	Total/NA	Soil	5035	
820-5243-80	CS-80	Total/NA	Soil	5035	
MB 880-31717/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31717/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31717/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
820-5243-61 MS	CS-61	Total/NA	Soil	5035	
820-5243-61 MSD	CS-61	Total/NA	Soil	5035	

Prep Batch: 31728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-81	CS-81	Total/NA	Soil	5035	
820-5243-82	CS-82	Total/NA	Soil	5035	
820-5243-83	CS-83	Total/NA	Soil	5035	
820-5243-84	CS-84	Total/NA	Soil	5035	
820-5243-85	CS-85	Total/NA	Soil	5035	
820-5243-86	CS-86	Total/NA	Soil	5035	
820-5243-87	CS-87	Total/NA	Soil	5035	
820-5243-88	CS-88	Total/NA	Soil	5035	
820-5243-89	CS-89	Total/NA	Soil	5035	
820-5243-90	CS-90	Total/NA	Soil	5035	
820-5243-91	CS-91	Total/NA	Soil	5035	
820-5243-92	CS-92	Total/NA	Soil	5035	
820-5243-93	CS-93	Total/NA	Soil	5035	
820-5243-94	CS-94	Total/NA	Soil	5035	
820-5243-95	CS-95	Total/NA	Soil	5035	
820-5243-96	CS-96	Total/NA	Soil	5035	
820-5243-97	CS-97	Total/NA	Soil	5035	
820-5243-98	CS-98	Total/NA	Soil	5035	
820-5243-99	CS-99	Total/NA	Soil	5035	
820-5243-100	CS-100	Total/NA	Soil	5035	
MB 880-31728/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31728/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31728/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
820-5243-81 MS	CS-81	Total/NA	Soil	5035	
820-5243-81 MSD	CS-81	Total/NA	Soil	5035	

Prep Batch: 31729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-101	CS-101	Total/NA	Soil	5035	
820-5243-102	CS-102	Total/NA	Soil	5035	
820-5243-103	CS-103	Total/NA	Soil	5035	
820-5243-104	CS-104	Total/NA	Soil	5035	
820-5243-105	CS-105	Total/NA	Soil	5035	
820-5243-106	CS-106	Total/NA	Soil	5035	
820-5243-107	CS-107	Total/NA	Soil	5035	
820-5243-108	CS-108	Total/NA	Soil	5035	
820-5243-109	CS-109	Total/NA	Soil	5035	
820-5243-110	CS-110	Total/NA	Soil	5035	
820-5243-111	CS-111	Total/NA	Soil	5035	
820-5243-112	CS-112	Total/NA	Soil	5035	
820-5243-113	CS-113	Total/NA	Soil	5035	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

GC VOA (Continued)

Prep Batch: 31729 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-114	CS-114	Total/NA	Soil	5035	
820-5243-115	CS-115	Total/NA	Soil	5035	
820-5243-116	CS-116	Total/NA	Soil	5035	
820-5243-117	CS-117	Total/NA	Soil	5035	
820-5243-118	CS-118	Total/NA	Soil	5035	
820-5243-119	CS-119	Total/NA	Soil	5035	
820-5243-120	CS-120	Total/NA	Soil	5035	
MB 880-31729/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31729/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31729/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
820-5243-101 MS	CS-101	Total/NA	Soil	5035	
820-5243-101 MSD	CS-101	Total/NA	Soil	5035	

Prep Batch: 31731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-121	CS-121	Total/NA	Soil	5035	
820-5243-122	CS-122	Total/NA	Soil	5035	
820-5243-123	SP-F	Total/NA	Soil	5035	
MB 880-31731/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31731/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31731/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
820-5243-121 MS	CS-121	Total/NA	Soil	5035	
820-5243-121 MSD	CS-121	Total/NA	Soil	5035	

Analysis Batch: 31827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-41	CS-41	Total/NA	Soil	8021B	31716
820-5243-42	CS-42	Total/NA	Soil	8021B	31716
820-5243-43	CS-43	Total/NA	Soil	8021B	31716
820-5243-44	CS-44	Total/NA	Soil	8021B	31716
820-5243-45	CS-45	Total/NA	Soil	8021B	31716
820-5243-46	CS-46	Total/NA	Soil	8021B	31716
820-5243-47	CS-47	Total/NA	Soil	8021B	31716
820-5243-48	CS-48	Total/NA	Soil	8021B	31716
820-5243-49	CS-49	Total/NA	Soil	8021B	31716
820-5243-50	CS-50	Total/NA	Soil	8021B	31716
820-5243-51	CS-51	Total/NA	Soil	8021B	31716
820-5243-52	CS-52	Total/NA	Soil	8021B	31716
820-5243-53	CS-53	Total/NA	Soil	8021B	31716
820-5243-54	CS-54	Total/NA	Soil	8021B	31716
820-5243-55	CS-55	Total/NA	Soil	8021B	31716
820-5243-56	CS-56	Total/NA	Soil	8021B	31716
820-5243-57	CS-57	Total/NA	Soil	8021B	31716
820-5243-58	CS-58	Total/NA	Soil	8021B	31716
820-5243-59	CS-59	Total/NA	Soil	8021B	31716
820-5243-60	CS-60	Total/NA	Soil	8021B	31716
820-5243-101	CS-101	Total/NA	Soil	8021B	31729
820-5243-102	CS-102	Total/NA	Soil	8021B	31729
820-5243-103	CS-103	Total/NA	Soil	8021B	31729
820-5243-104	CS-104	Total/NA	Soil	8021B	31729
820-5243-105	CS-105	Total/NA	Soil	8021B	31729

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

GC VOA (Continued)

Analysis Batch: 31827 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-106	CS-106	Total/NA	Soil	8021B	31729
820-5243-107	CS-107	Total/NA	Soil	8021B	31729
820-5243-108	CS-108	Total/NA	Soil	8021B	31729
820-5243-109	CS-109	Total/NA	Soil	8021B	31729
820-5243-110	CS-110	Total/NA	Soil	8021B	31729
820-5243-111	CS-111	Total/NA	Soil	8021B	31729
820-5243-112	CS-112	Total/NA	Soil	8021B	31729
820-5243-113	CS-113	Total/NA	Soil	8021B	31729
820-5243-114	CS-114	Total/NA	Soil	8021B	31729
820-5243-115	CS-115	Total/NA	Soil	8021B	31729
820-5243-116	CS-116	Total/NA	Soil	8021B	31729
820-5243-117	CS-117	Total/NA	Soil	8021B	31729
820-5243-118	CS-118	Total/NA	Soil	8021B	31729
820-5243-119	CS-119	Total/NA	Soil	8021B	31729
820-5243-120	CS-120	Total/NA	Soil	8021B	31729
MB 880-31716/5-A	Method Blank	Total/NA	Solid	8021B	31716
MB 880-31729/5-A	Method Blank	Total/NA	Solid	8021B	31729
LCS 880-31716/1-A	Lab Control Sample	Total/NA	Solid	8021B	31716
LCS 880-31729/1-A	Lab Control Sample	Total/NA	Solid	8021B	31729
LCSD 880-31716/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31716
LCSD 880-31729/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31729
820-5243-41 MS	CS-41	Total/NA	Soil	8021B	31716
820-5243-41 MSD	CS-41	Total/NA	Soil	8021B	31716
820-5243-101 MS	CS-101	Total/NA	Soil	8021B	31729
820-5243-101 MSD	CS-101	Total/NA	Soil	8021B	31729

Prep Batch: 31834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-31834/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31834/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31834/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 31835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-1	CS-1	Total/NA	Soil	8021B	31714
820-5243-2	CS-2	Total/NA	Soil	8021B	31714
820-5243-3	CS-3	Total/NA	Soil	8021B	31714
820-5243-4	CS-4	Total/NA	Soil	8021B	31714
820-5243-5	CS-5	Total/NA	Soil	8021B	31714
820-5243-6	CS-6	Total/NA	Soil	8021B	31714
820-5243-7	CS-7	Total/NA	Soil	8021B	31714
820-5243-8	CS-8	Total/NA	Soil	8021B	31714
820-5243-9	CS-9	Total/NA	Soil	8021B	31714
820-5243-10	CS-10	Total/NA	Soil	8021B	31714
820-5243-11	CS-11	Total/NA	Soil	8021B	31714
820-5243-12	CS-12	Total/NA	Soil	8021B	31714
820-5243-13	CS-13	Total/NA	Soil	8021B	31714
820-5243-14	CS-14	Total/NA	Soil	8021B	31714
820-5243-15	CS-15	Total/NA	Soil	8021B	31714
820-5243-16	CS-16	Total/NA	Soil	8021B	31714
820-5243-17	CS-17	Total/NA	Soil	8021B	31714

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

GC VOA (Continued)

Analysis Batch: 31835 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-18	CS-18	Total/NA	Soil	8021B	31714
820-5243-19	CS-19	Total/NA	Soil	8021B	31714
820-5243-20	CS-20	Total/NA	Soil	8021B	31714
820-5243-81	CS-81	Total/NA	Soil	8021B	31728
820-5243-82	CS-82	Total/NA	Soil	8021B	31728
820-5243-83	CS-83	Total/NA	Soil	8021B	31728
820-5243-84	CS-84	Total/NA	Soil	8021B	31728
820-5243-85	CS-85	Total/NA	Soil	8021B	31728
820-5243-86	CS-86	Total/NA	Soil	8021B	31728
820-5243-87	CS-87	Total/NA	Soil	8021B	31728
820-5243-88	CS-88	Total/NA	Soil	8021B	31728
820-5243-89	CS-89	Total/NA	Soil	8021B	31728
820-5243-90	CS-90	Total/NA	Soil	8021B	31728
820-5243-91	CS-91	Total/NA	Soil	8021B	31728
820-5243-92	CS-92	Total/NA	Soil	8021B	31728
820-5243-93	CS-93	Total/NA	Soil	8021B	31728
820-5243-94	CS-94	Total/NA	Soil	8021B	31728
820-5243-95	CS-95	Total/NA	Soil	8021B	31728
820-5243-96	CS-96	Total/NA	Soil	8021B	31728
820-5243-97	CS-97	Total/NA	Soil	8021B	31728
820-5243-98	CS-98	Total/NA	Soil	8021B	31728
820-5243-99	CS-99	Total/NA	Soil	8021B	31728
820-5243-100	CS-100	Total/NA	Soil	8021B	31728
MB 880-31714/5-A	Method Blank	Total/NA	Solid	8021B	31714
MB 880-31728/5-A	Method Blank	Total/NA	Solid	8021B	31728
LCS 880-31714/1-A	Lab Control Sample	Total/NA	Solid	8021B	31714
LCS 880-31728/1-A	Lab Control Sample	Total/NA	Solid	8021B	31728
LCSD 880-31714/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31714
LCSD 880-31728/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31728
820-5243-1 MS	CS-1	Total/NA	Soil	8021B	31714
820-5243-1 MSD	CS-1	Total/NA	Soil	8021B	31714
820-5243-81 MS	CS-81	Total/NA	Soil	8021B	31728
820-5243-81 MSD	CS-81	Total/NA	Soil	8021B	31728

Analysis Batch: 31847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-1	CS-1	Total/NA	Soil	Total BTEX	
820-5243-2	CS-2	Total/NA	Soil	Total BTEX	
820-5243-3	CS-3	Total/NA	Soil	Total BTEX	
820-5243-4	CS-4	Total/NA	Soil	Total BTEX	
820-5243-5	CS-5	Total/NA	Soil	Total BTEX	
820-5243-6	CS-6	Total/NA	Soil	Total BTEX	
820-5243-7	CS-7	Total/NA	Soil	Total BTEX	
820-5243-8	CS-8	Total/NA	Soil	Total BTEX	
820-5243-9	CS-9	Total/NA	Soil	Total BTEX	
820-5243-10	CS-10	Total/NA	Soil	Total BTEX	
820-5243-11	CS-11	Total/NA	Soil	Total BTEX	
820-5243-12	CS-12	Total/NA	Soil	Total BTEX	
820-5243-13	CS-13	Total/NA	Soil	Total BTEX	
820-5243-14	CS-14	Total/NA	Soil	Total BTEX	
820-5243-15	CS-15	Total/NA	Soil	Total BTEX	

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

GC VOA (Continued)

Analysis Batch: 31847 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-16	CS-16	Total/NA	Soil	Total BTEX	
820-5243-17	CS-17	Total/NA	Soil	Total BTEX	
820-5243-18	CS-18	Total/NA	Soil	Total BTEX	
820-5243-19	CS-19	Total/NA	Soil	Total BTEX	
820-5243-20	CS-20	Total/NA	Soil	Total BTEX	
820-5243-21	CS-21	Total/NA	Soil	Total BTEX	
820-5243-22	CS-22	Total/NA	Soil	Total BTEX	
820-5243-23	CS-23	Total/NA	Soil	Total BTEX	
820-5243-24	CS-24	Total/NA	Soil	Total BTEX	
820-5243-25	CS-25	Total/NA	Soil	Total BTEX	
820-5243-26	CS-26	Total/NA	Soil	Total BTEX	
820-5243-27	CS-27	Total/NA	Soil	Total BTEX	
820-5243-28	CS-28	Total/NA	Soil	Total BTEX	
820-5243-29	CS-29	Total/NA	Soil	Total BTEX	
820-5243-30	CS-30	Total/NA	Soil	Total BTEX	
820-5243-31	CS-31	Total/NA	Soil	Total BTEX	
820-5243-32	CS-32	Total/NA	Soil	Total BTEX	
820-5243-33	CS-33	Total/NA	Soil	Total BTEX	
820-5243-34	CS-34	Total/NA	Soil	Total BTEX	
820-5243-35	CS-35	Total/NA	Soil	Total BTEX	
820-5243-36	CS-36	Total/NA	Soil	Total BTEX	
820-5243-37	CS-37	Total/NA	Soil	Total BTEX	
820-5243-38	CS-38	Total/NA	Soil	Total BTEX	
820-5243-39	CS-39	Total/NA	Soil	Total BTEX	
820-5243-40	CS-40	Total/NA	Soil	Total BTEX	
820-5243-41	CS-41	Total/NA	Soil	Total BTEX	
820-5243-42	CS-42	Total/NA	Soil	Total BTEX	
820-5243-43	CS-43	Total/NA	Soil	Total BTEX	
820-5243-44	CS-44	Total/NA	Soil	Total BTEX	
820-5243-45	CS-45	Total/NA	Soil	Total BTEX	
820-5243-46	CS-46	Total/NA	Soil	Total BTEX	
820-5243-47	CS-47	Total/NA	Soil	Total BTEX	
820-5243-48	CS-48	Total/NA	Soil	Total BTEX	
820-5243-49	CS-49	Total/NA	Soil	Total BTEX	
820-5243-50	CS-50	Total/NA	Soil	Total BTEX	
820-5243-51	CS-51	Total/NA	Soil	Total BTEX	
820-5243-52	CS-52	Total/NA	Soil	Total BTEX	
820-5243-53	CS-53	Total/NA	Soil	Total BTEX	
820-5243-54	CS-54	Total/NA	Soil	Total BTEX	
820-5243-55	CS-55	Total/NA	Soil	Total BTEX	
820-5243-56	CS-56	Total/NA	Soil	Total BTEX	
820-5243-57	CS-57	Total/NA	Soil	Total BTEX	
820-5243-58	CS-58	Total/NA	Soil	Total BTEX	
820-5243-59	CS-59	Total/NA	Soil	Total BTEX	
820-5243-60	CS-60	Total/NA	Soil	Total BTEX	
820-5243-61	CS-61	Total/NA	Soil	Total BTEX	
820-5243-62	CS-62	Total/NA	Soil	Total BTEX	
820-5243-63	CS-63	Total/NA	Soil	Total BTEX	
820-5243-64	CS-64	Total/NA	Soil	Total BTEX	
820-5243-65	CS-65	Total/NA	Soil	Total BTEX	
820-5243-66	CS-66	Total/NA	Soil	Total BTEX	

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

GC VOA (Continued)

Analysis Batch: 31847 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-67	CS-67	Total/NA	Soil	Total BTEX	
820-5243-68	CS-68	Total/NA	Soil	Total BTEX	
820-5243-69	CS-69	Total/NA	Soil	Total BTEX	
820-5243-70	CS-70	Total/NA	Soil	Total BTEX	
820-5243-71	CS-71	Total/NA	Soil	Total BTEX	
820-5243-72	CS-72	Total/NA	Soil	Total BTEX	
820-5243-73	CS-73	Total/NA	Soil	Total BTEX	
820-5243-74	CS-74	Total/NA	Soil	Total BTEX	
820-5243-75	CS-75	Total/NA	Soil	Total BTEX	
820-5243-76	CS-76	Total/NA	Soil	Total BTEX	
820-5243-77	CS-77	Total/NA	Soil	Total BTEX	
820-5243-78	CS-78	Total/NA	Soil	Total BTEX	
820-5243-79	CS-79	Total/NA	Soil	Total BTEX	
820-5243-80	CS-80	Total/NA	Soil	Total BTEX	
820-5243-81	CS-81	Total/NA	Soil	Total BTEX	
820-5243-82	CS-82	Total/NA	Soil	Total BTEX	
820-5243-83	CS-83	Total/NA	Soil	Total BTEX	
820-5243-84	CS-84	Total/NA	Soil	Total BTEX	
820-5243-85	CS-85	Total/NA	Soil	Total BTEX	
820-5243-86	CS-86	Total/NA	Soil	Total BTEX	
820-5243-87	CS-87	Total/NA	Soil	Total BTEX	
820-5243-88	CS-88	Total/NA	Soil	Total BTEX	
820-5243-89	CS-89	Total/NA	Soil	Total BTEX	
820-5243-90	CS-90	Total/NA	Soil	Total BTEX	
820-5243-91	CS-91	Total/NA	Soil	Total BTEX	
820-5243-92	CS-92	Total/NA	Soil	Total BTEX	
820-5243-93	CS-93	Total/NA	Soil	Total BTEX	
820-5243-94	CS-94	Total/NA	Soil	Total BTEX	
820-5243-95	CS-95	Total/NA	Soil	Total BTEX	
820-5243-96	CS-96	Total/NA	Soil	Total BTEX	
820-5243-97	CS-97	Total/NA	Soil	Total BTEX	
820-5243-98	CS-98	Total/NA	Soil	Total BTEX	
820-5243-99	CS-99	Total/NA	Soil	Total BTEX	
820-5243-100	CS-100	Total/NA	Soil	Total BTEX	
820-5243-101	CS-101	Total/NA	Soil	Total BTEX	
820-5243-102	CS-102	Total/NA	Soil	Total BTEX	
820-5243-103	CS-103	Total/NA	Soil	Total BTEX	
820-5243-104	CS-104	Total/NA	Soil	Total BTEX	
820-5243-105	CS-105	Total/NA	Soil	Total BTEX	
820-5243-106	CS-106	Total/NA	Soil	Total BTEX	
820-5243-107	CS-107	Total/NA	Soil	Total BTEX	
820-5243-108	CS-108	Total/NA	Soil	Total BTEX	
820-5243-109	CS-109	Total/NA	Soil	Total BTEX	
820-5243-110	CS-110	Total/NA	Soil	Total BTEX	
820-5243-111	CS-111	Total/NA	Soil	Total BTEX	
820-5243-112	CS-112	Total/NA	Soil	Total BTEX	
820-5243-113	CS-113	Total/NA	Soil	Total BTEX	
820-5243-114	CS-114	Total/NA	Soil	Total BTEX	
820-5243-115	CS-115	Total/NA	Soil	Total BTEX	
820-5243-116	CS-116	Total/NA	Soil	Total BTEX	
820-5243-117	CS-117	Total/NA	Soil	Total BTEX	

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

GC VOA (Continued)

Analysis Batch: 31847 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-118	CS-118	Total/NA	Soil	Total BTEX	
820-5243-119	CS-119	Total/NA	Soil	Total BTEX	
820-5243-120	CS-120	Total/NA	Soil	Total BTEX	
820-5243-121	CS-121	Total/NA	Soil	Total BTEX	
820-5243-122	CS-122	Total/NA	Soil	Total BTEX	
820-5243-123	SP-F	Total/NA	Soil	Total BTEX	

Analysis Batch: 31851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-61	CS-61	Total/NA	Soil	8021B	31717
820-5243-62	CS-62	Total/NA	Soil	8021B	31717
820-5243-63	CS-63	Total/NA	Soil	8021B	31717
820-5243-64	CS-64	Total/NA	Soil	8021B	31717
820-5243-65	CS-65	Total/NA	Soil	8021B	31717
820-5243-66	CS-66	Total/NA	Soil	8021B	31717
820-5243-67	CS-67	Total/NA	Soil	8021B	31717
820-5243-68	CS-68	Total/NA	Soil	8021B	31717
820-5243-69	CS-69	Total/NA	Soil	8021B	31717
820-5243-70	CS-70	Total/NA	Soil	8021B	31717
820-5243-71	CS-71	Total/NA	Soil	8021B	31717
820-5243-72	CS-72	Total/NA	Soil	8021B	31717
820-5243-73	CS-73	Total/NA	Soil	8021B	31717
820-5243-74	CS-74	Total/NA	Soil	8021B	31717
820-5243-75	CS-75	Total/NA	Soil	8021B	31717
820-5243-76	CS-76	Total/NA	Soil	8021B	31717
820-5243-77	CS-77	Total/NA	Soil	8021B	31717
820-5243-78	CS-78	Total/NA	Soil	8021B	31717
820-5243-79	CS-79	Total/NA	Soil	8021B	31717
820-5243-80	CS-80	Total/NA	Soil	8021B	31717
MB 880-31717/5-A	Method Blank	Total/NA	Solid	8021B	31717
MB 880-31834/5-A	Method Blank	Total/NA	Solid	8021B	31834
LCS 880-31717/1-A	Lab Control Sample	Total/NA	Solid	8021B	31717
LCS 880-31834/1-A	Lab Control Sample	Total/NA	Solid	8021B	31834
LCSD 880-31717/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31717
LCSD 880-31834/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31834
820-5243-61 MS	CS-61	Total/NA	Soil	8021B	31717
820-5243-61 MSD	CS-61	Total/NA	Soil	8021B	31717

GC Semi VOA

Analysis Batch: 31670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-1	CS-1	Total/NA	Soil	8015B NM	31681
820-5243-2	CS-2	Total/NA	Soil	8015B NM	31681
820-5243-3	CS-3	Total/NA	Soil	8015B NM	31681
820-5243-4	CS-4	Total/NA	Soil	8015B NM	31681
820-5243-5	CS-5	Total/NA	Soil	8015B NM	31681
820-5243-6	CS-6	Total/NA	Soil	8015B NM	31681
820-5243-7	CS-7	Total/NA	Soil	8015B NM	31681
820-5243-8	CS-8	Total/NA	Soil	8015B NM	31681
820-5243-9	CS-9	Total/NA	Soil	8015B NM	31681

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

GC Semi VOA (Continued)

Analysis Batch: 31670 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-10	CS-10	Total/NA	Soil	8015B NM	31681
820-5243-11	CS-11	Total/NA	Soil	8015B NM	31681
820-5243-12	CS-12	Total/NA	Soil	8015B NM	31681
820-5243-13	CS-13	Total/NA	Soil	8015B NM	31681
820-5243-14	CS-14	Total/NA	Soil	8015B NM	31681
820-5243-15	CS-15	Total/NA	Soil	8015B NM	31681
820-5243-16	CS-16	Total/NA	Soil	8015B NM	31681
820-5243-17	CS-17	Total/NA	Soil	8015B NM	31681
820-5243-18	CS-18	Total/NA	Soil	8015B NM	31681
820-5243-19	CS-19	Total/NA	Soil	8015B NM	31681
820-5243-20	CS-20	Total/NA	Soil	8015B NM	31681
820-5243-121	CS-121	Total/NA	Soil	8015B NM	31770
820-5243-122	CS-122	Total/NA	Soil	8015B NM	31770
820-5243-123	SP-F	Total/NA	Soil	8015B NM	31770
MB 880-31681/1-A	Method Blank	Total/NA	Solid	8015B NM	31681
MB 880-31770/1-A	Method Blank	Total/NA	Solid	8015B NM	31770
LCS 880-31681/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	31681
LCS 880-31770/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	31770
LCSD 880-31681/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	31681
LCSD 880-31770/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	31770
820-5243-1 MS	CS-1	Total/NA	Soil	8015B NM	31681
820-5243-1 MSD	CS-1	Total/NA	Soil	8015B NM	31681

Analysis Batch: 31672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-21	CS-21	Total/NA	Soil	8015B NM	31682
820-5243-22	CS-22	Total/NA	Soil	8015B NM	31682
820-5243-23	CS-23	Total/NA	Soil	8015B NM	31682
820-5243-24	CS-24	Total/NA	Soil	8015B NM	31682
820-5243-25	CS-25	Total/NA	Soil	8015B NM	31682
820-5243-26	CS-26	Total/NA	Soil	8015B NM	31682
820-5243-27	CS-27	Total/NA	Soil	8015B NM	31682
820-5243-28	CS-28	Total/NA	Soil	8015B NM	31682
820-5243-29	CS-29	Total/NA	Soil	8015B NM	31682
820-5243-30	CS-30	Total/NA	Soil	8015B NM	31682
820-5243-31	CS-31	Total/NA	Soil	8015B NM	31682
820-5243-32	CS-32	Total/NA	Soil	8015B NM	31682
820-5243-33	CS-33	Total/NA	Soil	8015B NM	31682
820-5243-34	CS-34	Total/NA	Soil	8015B NM	31682
820-5243-35	CS-35	Total/NA	Soil	8015B NM	31682
820-5243-36	CS-36	Total/NA	Soil	8015B NM	31682
820-5243-37	CS-37	Total/NA	Soil	8015B NM	31682
820-5243-38	CS-38	Total/NA	Soil	8015B NM	31682
820-5243-39	CS-39	Total/NA	Soil	8015B NM	31682
820-5243-40	CS-40	Total/NA	Soil	8015B NM	31682
MB 880-31682/1-A	Method Blank	Total/NA	Solid	8015B NM	31682
LCS 880-31682/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	31682
LCSD 880-31682/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	31682
820-5243-21 MS	CS-21	Total/NA	Soil	8015B NM	31682
820-5243-21 MSD	CS-21	Total/NA	Soil	8015B NM	31682

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

GC Semi VOA

Analysis Batch: 31674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-61	CS-61	Total/NA	Soil	8015B NM	31684
820-5243-62	CS-62	Total/NA	Soil	8015B NM	31684
820-5243-63	CS-63	Total/NA	Soil	8015B NM	31684
820-5243-64	CS-64	Total/NA	Soil	8015B NM	31684
820-5243-65	CS-65	Total/NA	Soil	8015B NM	31684
820-5243-66	CS-66	Total/NA	Soil	8015B NM	31684
820-5243-67	CS-67	Total/NA	Soil	8015B NM	31684
820-5243-68	CS-68	Total/NA	Soil	8015B NM	31684
820-5243-69	CS-69	Total/NA	Soil	8015B NM	31684
820-5243-70	CS-70	Total/NA	Soil	8015B NM	31684
820-5243-71	CS-71	Total/NA	Soil	8015B NM	31684
820-5243-72	CS-72	Total/NA	Soil	8015B NM	31684
820-5243-73	CS-73	Total/NA	Soil	8015B NM	31684
820-5243-74	CS-74	Total/NA	Soil	8015B NM	31684
820-5243-75	CS-75	Total/NA	Soil	8015B NM	31684
820-5243-76	CS-76	Total/NA	Soil	8015B NM	31684
820-5243-77	CS-77	Total/NA	Soil	8015B NM	31684
820-5243-78	CS-78	Total/NA	Soil	8015B NM	31684
820-5243-79	CS-79	Total/NA	Soil	8015B NM	31684
820-5243-80	CS-80	Total/NA	Soil	8015B NM	31684
820-5243-101	CS-101	Total/NA	Soil	8015B NM	31766
820-5243-102	CS-102	Total/NA	Soil	8015B NM	31766
820-5243-103	CS-103	Total/NA	Soil	8015B NM	31766
820-5243-104	CS-104	Total/NA	Soil	8015B NM	31766
820-5243-105	CS-105	Total/NA	Soil	8015B NM	31766
820-5243-106	CS-106	Total/NA	Soil	8015B NM	31766
820-5243-107	CS-107	Total/NA	Soil	8015B NM	31766
820-5243-108	CS-108	Total/NA	Soil	8015B NM	31766
820-5243-109	CS-109	Total/NA	Soil	8015B NM	31766
820-5243-110	CS-110	Total/NA	Soil	8015B NM	31766
820-5243-111	CS-111	Total/NA	Soil	8015B NM	31766
820-5243-112	CS-112	Total/NA	Soil	8015B NM	31766
820-5243-113	CS-113	Total/NA	Soil	8015B NM	31766
820-5243-114	CS-114	Total/NA	Soil	8015B NM	31766
820-5243-115	CS-115	Total/NA	Soil	8015B NM	31766
820-5243-116	CS-116	Total/NA	Soil	8015B NM	31766
820-5243-117	CS-117	Total/NA	Soil	8015B NM	31766
820-5243-118	CS-118	Total/NA	Soil	8015B NM	31766
820-5243-119	CS-119	Total/NA	Soil	8015B NM	31766
820-5243-120	CS-120	Total/NA	Soil	8015B NM	31766
MB 880-31684/1-A	Method Blank	Total/NA	Solid	8015B NM	31684
MB 880-31766/1-A	Method Blank	Total/NA	Solid	8015B NM	31766
LCS 880-31684/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	31684
LCS 880-31766/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	31766
LCSD 880-31684/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	31684
LCSD 880-31766/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	31766
820-5243-61 MS	CS-61	Total/NA	Soil	8015B NM	31684
820-5243-61 MSD	CS-61	Total/NA	Soil	8015B NM	31684
820-5243-101 MS	CS-101	Total/NA	Soil	8015B NM	31766
820-5243-101 MSD	CS-101	Total/NA	Soil	8015B NM	31766

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

GC Semi VOA

Analysis Batch: 31676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-41	CS-41	Total/NA	Soil	8015B NM	31683
820-5243-42	CS-42	Total/NA	Soil	8015B NM	31683
820-5243-43	CS-43	Total/NA	Soil	8015B NM	31683
820-5243-44	CS-44	Total/NA	Soil	8015B NM	31683
820-5243-45	CS-45	Total/NA	Soil	8015B NM	31683
820-5243-46	CS-46	Total/NA	Soil	8015B NM	31683
820-5243-47	CS-47	Total/NA	Soil	8015B NM	31683
820-5243-48	CS-48	Total/NA	Soil	8015B NM	31683
820-5243-49	CS-49	Total/NA	Soil	8015B NM	31683
820-5243-50	CS-50	Total/NA	Soil	8015B NM	31683
820-5243-51	CS-51	Total/NA	Soil	8015B NM	31683
820-5243-52	CS-52	Total/NA	Soil	8015B NM	31683
820-5243-53	CS-53	Total/NA	Soil	8015B NM	31683
820-5243-54	CS-54	Total/NA	Soil	8015B NM	31683
820-5243-55	CS-55	Total/NA	Soil	8015B NM	31683
820-5243-56	CS-56	Total/NA	Soil	8015B NM	31683
820-5243-57	CS-57	Total/NA	Soil	8015B NM	31683
820-5243-58	CS-58	Total/NA	Soil	8015B NM	31683
820-5243-59	CS-59	Total/NA	Soil	8015B NM	31683
820-5243-60	CS-60	Total/NA	Soil	8015B NM	31683
820-5243-81	CS-81	Total/NA	Soil	8015B NM	31765
820-5243-82	CS-82	Total/NA	Soil	8015B NM	31765
820-5243-83	CS-83	Total/NA	Soil	8015B NM	31765
820-5243-84	CS-84	Total/NA	Soil	8015B NM	31765
820-5243-85	CS-85	Total/NA	Soil	8015B NM	31765
820-5243-86	CS-86	Total/NA	Soil	8015B NM	31765
820-5243-87	CS-87	Total/NA	Soil	8015B NM	31765
820-5243-88	CS-88	Total/NA	Soil	8015B NM	31765
820-5243-89	CS-89	Total/NA	Soil	8015B NM	31765
820-5243-90	CS-90	Total/NA	Soil	8015B NM	31765
820-5243-91	CS-91	Total/NA	Soil	8015B NM	31765
820-5243-92	CS-92	Total/NA	Soil	8015B NM	31765
820-5243-93	CS-93	Total/NA	Soil	8015B NM	31765
820-5243-94	CS-94	Total/NA	Soil	8015B NM	31765
820-5243-95	CS-95	Total/NA	Soil	8015B NM	31765
820-5243-96	CS-96	Total/NA	Soil	8015B NM	31765
820-5243-97	CS-97	Total/NA	Soil	8015B NM	31765
820-5243-98	CS-98	Total/NA	Soil	8015B NM	31765
820-5243-99	CS-99	Total/NA	Soil	8015B NM	31765
820-5243-100	CS-100	Total/NA	Soil	8015B NM	31765
MB 880-31683/1-A	Method Blank	Total/NA	Solid	8015B NM	31683
MB 880-31765/1-A	Method Blank	Total/NA	Solid	8015B NM	31765
LCS 880-31683/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	31683
LCS 880-31765/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	31765
LCSD 880-31683/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	31683
LCSD 880-31765/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	31765
820-5243-41 MS	CS-41	Total/NA	Soil	8015B NM	31683
820-5243-41 MSD	CS-41	Total/NA	Soil	8015B NM	31683
820-5243-81 MS	CS-81	Total/NA	Soil	8015B NM	31765
820-5243-81 MSD	CS-81	Total/NA	Soil	8015B NM	31765

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

GC Semi VOA

Prep Batch: 31681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-1	CS-1	Total/NA	Soil	8015NM Prep	
820-5243-2	CS-2	Total/NA	Soil	8015NM Prep	
820-5243-3	CS-3	Total/NA	Soil	8015NM Prep	
820-5243-4	CS-4	Total/NA	Soil	8015NM Prep	
820-5243-5	CS-5	Total/NA	Soil	8015NM Prep	
820-5243-6	CS-6	Total/NA	Soil	8015NM Prep	
820-5243-7	CS-7	Total/NA	Soil	8015NM Prep	
820-5243-8	CS-8	Total/NA	Soil	8015NM Prep	
820-5243-9	CS-9	Total/NA	Soil	8015NM Prep	
820-5243-10	CS-10	Total/NA	Soil	8015NM Prep	
820-5243-11	CS-11	Total/NA	Soil	8015NM Prep	
820-5243-12	CS-12	Total/NA	Soil	8015NM Prep	
820-5243-13	CS-13	Total/NA	Soil	8015NM Prep	
820-5243-14	CS-14	Total/NA	Soil	8015NM Prep	
820-5243-15	CS-15	Total/NA	Soil	8015NM Prep	
820-5243-16	CS-16	Total/NA	Soil	8015NM Prep	
820-5243-17	CS-17	Total/NA	Soil	8015NM Prep	
820-5243-18	CS-18	Total/NA	Soil	8015NM Prep	
820-5243-19	CS-19	Total/NA	Soil	8015NM Prep	
820-5243-20	CS-20	Total/NA	Soil	8015NM Prep	
MB 880-31681/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-31681/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-31681/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
820-5243-1 MS	CS-1	Total/NA	Soil	8015NM Prep	
820-5243-1 MSD	CS-1	Total/NA	Soil	8015NM Prep	

Prep Batch: 31682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-21	CS-21	Total/NA	Soil	8015NM Prep	
820-5243-22	CS-22	Total/NA	Soil	8015NM Prep	
820-5243-23	CS-23	Total/NA	Soil	8015NM Prep	
820-5243-24	CS-24	Total/NA	Soil	8015NM Prep	
820-5243-25	CS-25	Total/NA	Soil	8015NM Prep	
820-5243-26	CS-26	Total/NA	Soil	8015NM Prep	
820-5243-27	CS-27	Total/NA	Soil	8015NM Prep	
820-5243-28	CS-28	Total/NA	Soil	8015NM Prep	
820-5243-29	CS-29	Total/NA	Soil	8015NM Prep	
820-5243-30	CS-30	Total/NA	Soil	8015NM Prep	
820-5243-31	CS-31	Total/NA	Soil	8015NM Prep	
820-5243-32	CS-32	Total/NA	Soil	8015NM Prep	
820-5243-33	CS-33	Total/NA	Soil	8015NM Prep	
820-5243-34	CS-34	Total/NA	Soil	8015NM Prep	
820-5243-35	CS-35	Total/NA	Soil	8015NM Prep	
820-5243-36	CS-36	Total/NA	Soil	8015NM Prep	
820-5243-37	CS-37	Total/NA	Soil	8015NM Prep	
820-5243-38	CS-38	Total/NA	Soil	8015NM Prep	
820-5243-39	CS-39	Total/NA	Soil	8015NM Prep	
820-5243-40	CS-40	Total/NA	Soil	8015NM Prep	
MB 880-31682/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-31682/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-31682/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

GC Semi VOA (Continued)

Prep Batch: 31682 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-21 MS	CS-21	Total/NA	Soil	8015NM Prep	
820-5243-21 MSD	CS-21	Total/NA	Soil	8015NM Prep	

Prep Batch: 31683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-41	CS-41	Total/NA	Soil	8015NM Prep	
820-5243-42	CS-42	Total/NA	Soil	8015NM Prep	
820-5243-43	CS-43	Total/NA	Soil	8015NM Prep	
820-5243-44	CS-44	Total/NA	Soil	8015NM Prep	
820-5243-45	CS-45	Total/NA	Soil	8015NM Prep	
820-5243-46	CS-46	Total/NA	Soil	8015NM Prep	
820-5243-47	CS-47	Total/NA	Soil	8015NM Prep	
820-5243-48	CS-48	Total/NA	Soil	8015NM Prep	
820-5243-49	CS-49	Total/NA	Soil	8015NM Prep	
820-5243-50	CS-50	Total/NA	Soil	8015NM Prep	
820-5243-51	CS-51	Total/NA	Soil	8015NM Prep	
820-5243-52	CS-52	Total/NA	Soil	8015NM Prep	
820-5243-53	CS-53	Total/NA	Soil	8015NM Prep	
820-5243-54	CS-54	Total/NA	Soil	8015NM Prep	
820-5243-55	CS-55	Total/NA	Soil	8015NM Prep	
820-5243-56	CS-56	Total/NA	Soil	8015NM Prep	
820-5243-57	CS-57	Total/NA	Soil	8015NM Prep	
820-5243-58	CS-58	Total/NA	Soil	8015NM Prep	
820-5243-59	CS-59	Total/NA	Soil	8015NM Prep	
820-5243-60	CS-60	Total/NA	Soil	8015NM Prep	
MB 880-31683/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-31683/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-31683/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
820-5243-41 MS	CS-41	Total/NA	Soil	8015NM Prep	
820-5243-41 MSD	CS-41	Total/NA	Soil	8015NM Prep	

Prep Batch: 31684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-61	CS-61	Total/NA	Soil	8015NM Prep	
820-5243-62	CS-62	Total/NA	Soil	8015NM Prep	
820-5243-63	CS-63	Total/NA	Soil	8015NM Prep	
820-5243-64	CS-64	Total/NA	Soil	8015NM Prep	
820-5243-65	CS-65	Total/NA	Soil	8015NM Prep	
820-5243-66	CS-66	Total/NA	Soil	8015NM Prep	
820-5243-67	CS-67	Total/NA	Soil	8015NM Prep	
820-5243-68	CS-68	Total/NA	Soil	8015NM Prep	
820-5243-69	CS-69	Total/NA	Soil	8015NM Prep	
820-5243-70	CS-70	Total/NA	Soil	8015NM Prep	
820-5243-71	CS-71	Total/NA	Soil	8015NM Prep	
820-5243-72	CS-72	Total/NA	Soil	8015NM Prep	
820-5243-73	CS-73	Total/NA	Soil	8015NM Prep	
820-5243-74	CS-74	Total/NA	Soil	8015NM Prep	
820-5243-75	CS-75	Total/NA	Soil	8015NM Prep	
820-5243-76	CS-76	Total/NA	Soil	8015NM Prep	
820-5243-77	CS-77	Total/NA	Soil	8015NM Prep	
820-5243-78	CS-78	Total/NA	Soil	8015NM Prep	

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

GC Semi VOA (Continued)

Prep Batch: 31684 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-79	CS-79	Total/NA	Soil	8015NM Prep	
820-5243-80	CS-80	Total/NA	Soil	8015NM Prep	
MB 880-31684/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-31684/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-31684/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
820-5243-61 MS	CS-61	Total/NA	Soil	8015NM Prep	
820-5243-61 MSD	CS-61	Total/NA	Soil	8015NM Prep	

Prep Batch: 31765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-81	CS-81	Total/NA	Soil	8015NM Prep	
820-5243-82	CS-82	Total/NA	Soil	8015NM Prep	
820-5243-83	CS-83	Total/NA	Soil	8015NM Prep	
820-5243-84	CS-84	Total/NA	Soil	8015NM Prep	
820-5243-85	CS-85	Total/NA	Soil	8015NM Prep	
820-5243-86	CS-86	Total/NA	Soil	8015NM Prep	
820-5243-87	CS-87	Total/NA	Soil	8015NM Prep	
820-5243-88	CS-88	Total/NA	Soil	8015NM Prep	
820-5243-89	CS-89	Total/NA	Soil	8015NM Prep	
820-5243-90	CS-90	Total/NA	Soil	8015NM Prep	
820-5243-91	CS-91	Total/NA	Soil	8015NM Prep	
820-5243-92	CS-92	Total/NA	Soil	8015NM Prep	
820-5243-93	CS-93	Total/NA	Soil	8015NM Prep	
820-5243-94	CS-94	Total/NA	Soil	8015NM Prep	
820-5243-95	CS-95	Total/NA	Soil	8015NM Prep	
820-5243-96	CS-96	Total/NA	Soil	8015NM Prep	
820-5243-97	CS-97	Total/NA	Soil	8015NM Prep	
820-5243-98	CS-98	Total/NA	Soil	8015NM Prep	
820-5243-99	CS-99	Total/NA	Soil	8015NM Prep	
820-5243-100	CS-100	Total/NA	Soil	8015NM Prep	
MB 880-31765/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-31765/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-31765/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
820-5243-81 MS	CS-81	Total/NA	Soil	8015NM Prep	
820-5243-81 MSD	CS-81	Total/NA	Soil	8015NM Prep	

Prep Batch: 31766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-101	CS-101	Total/NA	Soil	8015NM Prep	
820-5243-102	CS-102	Total/NA	Soil	8015NM Prep	
820-5243-103	CS-103	Total/NA	Soil	8015NM Prep	
820-5243-104	CS-104	Total/NA	Soil	8015NM Prep	
820-5243-105	CS-105	Total/NA	Soil	8015NM Prep	
820-5243-106	CS-106	Total/NA	Soil	8015NM Prep	
820-5243-107	CS-107	Total/NA	Soil	8015NM Prep	
820-5243-108	CS-108	Total/NA	Soil	8015NM Prep	
820-5243-109	CS-109	Total/NA	Soil	8015NM Prep	
820-5243-110	CS-110	Total/NA	Soil	8015NM Prep	
820-5243-111	CS-111	Total/NA	Soil	8015NM Prep	
820-5243-112	CS-112	Total/NA	Soil	8015NM Prep	
820-5243-113	CS-113	Total/NA	Soil	8015NM Prep	

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

GC Semi VOA (Continued)

Prep Batch: 31766 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-114	CS-114	Total/NA	Soil	8015NM Prep	
820-5243-115	CS-115	Total/NA	Soil	8015NM Prep	
820-5243-116	CS-116	Total/NA	Soil	8015NM Prep	
820-5243-117	CS-117	Total/NA	Soil	8015NM Prep	
820-5243-118	CS-118	Total/NA	Soil	8015NM Prep	
820-5243-119	CS-119	Total/NA	Soil	8015NM Prep	
820-5243-120	CS-120	Total/NA	Soil	8015NM Prep	
MB 880-31766/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-31766/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-31766/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
820-5243-101 MS	CS-101	Total/NA	Soil	8015NM Prep	
820-5243-101 MSD	CS-101	Total/NA	Soil	8015NM Prep	

Prep Batch: 31770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-121	CS-121	Total/NA	Soil	8015NM Prep	
820-5243-122	CS-122	Total/NA	Soil	8015NM Prep	
820-5243-123	SP-F	Total/NA	Soil	8015NM Prep	
MB 880-31770/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-31770/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-31770/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 31836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-1	CS-1	Total/NA	Soil	8015 NM	
820-5243-2	CS-2	Total/NA	Soil	8015 NM	
820-5243-3	CS-3	Total/NA	Soil	8015 NM	
820-5243-4	CS-4	Total/NA	Soil	8015 NM	
820-5243-5	CS-5	Total/NA	Soil	8015 NM	
820-5243-6	CS-6	Total/NA	Soil	8015 NM	
820-5243-7	CS-7	Total/NA	Soil	8015 NM	
820-5243-8	CS-8	Total/NA	Soil	8015 NM	
820-5243-9	CS-9	Total/NA	Soil	8015 NM	
820-5243-10	CS-10	Total/NA	Soil	8015 NM	
820-5243-11	CS-11	Total/NA	Soil	8015 NM	
820-5243-12	CS-12	Total/NA	Soil	8015 NM	
820-5243-13	CS-13	Total/NA	Soil	8015 NM	
820-5243-14	CS-14	Total/NA	Soil	8015 NM	
820-5243-15	CS-15	Total/NA	Soil	8015 NM	
820-5243-16	CS-16	Total/NA	Soil	8015 NM	
820-5243-17	CS-17	Total/NA	Soil	8015 NM	
820-5243-18	CS-18	Total/NA	Soil	8015 NM	
820-5243-19	CS-19	Total/NA	Soil	8015 NM	
820-5243-20	CS-20	Total/NA	Soil	8015 NM	
820-5243-21	CS-21	Total/NA	Soil	8015 NM	
820-5243-22	CS-22	Total/NA	Soil	8015 NM	
820-5243-23	CS-23	Total/NA	Soil	8015 NM	
820-5243-24	CS-24	Total/NA	Soil	8015 NM	
820-5243-25	CS-25	Total/NA	Soil	8015 NM	
820-5243-26	CS-26	Total/NA	Soil	8015 NM	
820-5243-27	CS-27	Total/NA	Soil	8015 NM	

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

GC Semi VOA (Continued)

Analysis Batch: 31836 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-28	CS-28	Total/NA	Soil	8015 NM	
820-5243-29	CS-29	Total/NA	Soil	8015 NM	
820-5243-30	CS-30	Total/NA	Soil	8015 NM	
820-5243-31	CS-31	Total/NA	Soil	8015 NM	
820-5243-32	CS-32	Total/NA	Soil	8015 NM	
820-5243-33	CS-33	Total/NA	Soil	8015 NM	
820-5243-34	CS-34	Total/NA	Soil	8015 NM	
820-5243-35	CS-35	Total/NA	Soil	8015 NM	
820-5243-36	CS-36	Total/NA	Soil	8015 NM	
820-5243-37	CS-37	Total/NA	Soil	8015 NM	
820-5243-38	CS-38	Total/NA	Soil	8015 NM	
820-5243-39	CS-39	Total/NA	Soil	8015 NM	
820-5243-40	CS-40	Total/NA	Soil	8015 NM	
820-5243-41	CS-41	Total/NA	Soil	8015 NM	
820-5243-42	CS-42	Total/NA	Soil	8015 NM	
820-5243-43	CS-43	Total/NA	Soil	8015 NM	
820-5243-44	CS-44	Total/NA	Soil	8015 NM	
820-5243-45	CS-45	Total/NA	Soil	8015 NM	
820-5243-46	CS-46	Total/NA	Soil	8015 NM	
820-5243-47	CS-47	Total/NA	Soil	8015 NM	
820-5243-48	CS-48	Total/NA	Soil	8015 NM	
820-5243-49	CS-49	Total/NA	Soil	8015 NM	
820-5243-50	CS-50	Total/NA	Soil	8015 NM	
820-5243-51	CS-51	Total/NA	Soil	8015 NM	
820-5243-52	CS-52	Total/NA	Soil	8015 NM	
820-5243-53	CS-53	Total/NA	Soil	8015 NM	
820-5243-54	CS-54	Total/NA	Soil	8015 NM	
820-5243-55	CS-55	Total/NA	Soil	8015 NM	
820-5243-56	CS-56	Total/NA	Soil	8015 NM	
820-5243-57	CS-57	Total/NA	Soil	8015 NM	
820-5243-58	CS-58	Total/NA	Soil	8015 NM	
820-5243-59	CS-59	Total/NA	Soil	8015 NM	
820-5243-60	CS-60	Total/NA	Soil	8015 NM	
820-5243-61	CS-61	Total/NA	Soil	8015 NM	
820-5243-62	CS-62	Total/NA	Soil	8015 NM	
820-5243-63	CS-63	Total/NA	Soil	8015 NM	
820-5243-64	CS-64	Total/NA	Soil	8015 NM	
820-5243-65	CS-65	Total/NA	Soil	8015 NM	
820-5243-66	CS-66	Total/NA	Soil	8015 NM	
820-5243-67	CS-67	Total/NA	Soil	8015 NM	
820-5243-68	CS-68	Total/NA	Soil	8015 NM	
820-5243-69	CS-69	Total/NA	Soil	8015 NM	
820-5243-70	CS-70	Total/NA	Soil	8015 NM	
820-5243-71	CS-71	Total/NA	Soil	8015 NM	
820-5243-72	CS-72	Total/NA	Soil	8015 NM	
820-5243-73	CS-73	Total/NA	Soil	8015 NM	
820-5243-74	CS-74	Total/NA	Soil	8015 NM	
820-5243-75	CS-75	Total/NA	Soil	8015 NM	
820-5243-76	CS-76	Total/NA	Soil	8015 NM	
820-5243-77	CS-77	Total/NA	Soil	8015 NM	
820-5243-78	CS-78	Total/NA	Soil	8015 NM	

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

GC Semi VOA (Continued)

Analysis Batch: 31836 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-79	CS-79	Total/NA	Soil	8015 NM	
820-5243-80	CS-80	Total/NA	Soil	8015 NM	
820-5243-81	CS-81	Total/NA	Soil	8015 NM	
820-5243-82	CS-82	Total/NA	Soil	8015 NM	
820-5243-83	CS-83	Total/NA	Soil	8015 NM	
820-5243-84	CS-84	Total/NA	Soil	8015 NM	
820-5243-85	CS-85	Total/NA	Soil	8015 NM	
820-5243-86	CS-86	Total/NA	Soil	8015 NM	
820-5243-87	CS-87	Total/NA	Soil	8015 NM	
820-5243-88	CS-88	Total/NA	Soil	8015 NM	
820-5243-89	CS-89	Total/NA	Soil	8015 NM	
820-5243-90	CS-90	Total/NA	Soil	8015 NM	
820-5243-91	CS-91	Total/NA	Soil	8015 NM	
820-5243-92	CS-92	Total/NA	Soil	8015 NM	
820-5243-93	CS-93	Total/NA	Soil	8015 NM	
820-5243-94	CS-94	Total/NA	Soil	8015 NM	
820-5243-95	CS-95	Total/NA	Soil	8015 NM	
820-5243-96	CS-96	Total/NA	Soil	8015 NM	
820-5243-97	CS-97	Total/NA	Soil	8015 NM	
820-5243-98	CS-98	Total/NA	Soil	8015 NM	
820-5243-99	CS-99	Total/NA	Soil	8015 NM	
820-5243-100	CS-100	Total/NA	Soil	8015 NM	
820-5243-101	CS-101	Total/NA	Soil	8015 NM	
820-5243-102	CS-102	Total/NA	Soil	8015 NM	
820-5243-103	CS-103	Total/NA	Soil	8015 NM	
820-5243-104	CS-104	Total/NA	Soil	8015 NM	
820-5243-105	CS-105	Total/NA	Soil	8015 NM	
820-5243-106	CS-106	Total/NA	Soil	8015 NM	
820-5243-107	CS-107	Total/NA	Soil	8015 NM	
820-5243-108	CS-108	Total/NA	Soil	8015 NM	
820-5243-109	CS-109	Total/NA	Soil	8015 NM	
820-5243-110	CS-110	Total/NA	Soil	8015 NM	
820-5243-111	CS-111	Total/NA	Soil	8015 NM	
820-5243-112	CS-112	Total/NA	Soil	8015 NM	
820-5243-113	CS-113	Total/NA	Soil	8015 NM	
820-5243-114	CS-114	Total/NA	Soil	8015 NM	
820-5243-115	CS-115	Total/NA	Soil	8015 NM	
820-5243-116	CS-116	Total/NA	Soil	8015 NM	
820-5243-117	CS-117	Total/NA	Soil	8015 NM	
820-5243-118	CS-118	Total/NA	Soil	8015 NM	
820-5243-119	CS-119	Total/NA	Soil	8015 NM	
820-5243-120	CS-120	Total/NA	Soil	8015 NM	
820-5243-121	CS-121	Total/NA	Soil	8015 NM	
820-5243-122	CS-122	Total/NA	Soil	8015 NM	
820-5243-123	SP-F	Total/NA	Soil	8015 NM	

HPLC/IC

Leach Batch: 31639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-1	CS-1	Soluble	Soil	DI Leach	

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

HPLC/IC (Continued)

Leach Batch: 31639 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-2	CS-2	Soluble	Soil	DI Leach	
820-5243-3	CS-3	Soluble	Soil	DI Leach	
820-5243-4	CS-4	Soluble	Soil	DI Leach	
820-5243-5	CS-5	Soluble	Soil	DI Leach	
820-5243-6	CS-6	Soluble	Soil	DI Leach	
820-5243-7	CS-7	Soluble	Soil	DI Leach	
820-5243-8	CS-8	Soluble	Soil	DI Leach	
820-5243-9	CS-9	Soluble	Soil	DI Leach	
820-5243-10	CS-10	Soluble	Soil	DI Leach	
MB 880-31639/1-B	Method Blank	Soluble	Solid	DI Leach	
LCS 880-31639/2-B	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-31639/3-B	Lab Control Sample Dup	Soluble	Solid	DI Leach	
820-5243-1 MS	CS-1	Soluble	Soil	DI Leach	
820-5243-1 MSD	CS-1	Soluble	Soil	DI Leach	

Leach Batch: 31640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-11	CS-11	Soluble	Soil	DI Leach	
820-5243-12	CS-12	Soluble	Soil	DI Leach	
820-5243-13	CS-13	Soluble	Soil	DI Leach	
820-5243-14	CS-14	Soluble	Soil	DI Leach	
820-5243-15	CS-15	Soluble	Soil	DI Leach	
820-5243-16	CS-16	Soluble	Soil	DI Leach	
820-5243-17	CS-17	Soluble	Soil	DI Leach	
820-5243-18	CS-18	Soluble	Soil	DI Leach	
820-5243-19	CS-19	Soluble	Soil	DI Leach	
820-5243-20	CS-20	Soluble	Soil	DI Leach	
820-5243-21	CS-21	Soluble	Soil	DI Leach	
820-5243-22	CS-22	Soluble	Soil	DI Leach	
820-5243-23	CS-23	Soluble	Soil	DI Leach	
820-5243-24	CS-24	Soluble	Soil	DI Leach	
820-5243-25	CS-25	Soluble	Soil	DI Leach	
820-5243-26	CS-26	Soluble	Soil	DI Leach	
820-5243-27	CS-27	Soluble	Soil	DI Leach	
820-5243-28	CS-28	Soluble	Soil	DI Leach	
820-5243-29	CS-29	Soluble	Soil	DI Leach	
820-5243-30	CS-30	Soluble	Soil	DI Leach	
MB 880-31640/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-31640/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-31640/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
820-5243-11 MS	CS-11	Soluble	Soil	DI Leach	
820-5243-11 MSD	CS-11	Soluble	Soil	DI Leach	
820-5243-21 MS	CS-21	Soluble	Soil	DI Leach	
820-5243-21 MSD	CS-21	Soluble	Soil	DI Leach	

Leach Batch: 31641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-31	CS-31	Soluble	Soil	DI Leach	
820-5243-32	CS-32	Soluble	Soil	DI Leach	
820-5243-33	CS-33	Soluble	Soil	DI Leach	
820-5243-34	CS-34	Soluble	Soil	DI Leach	

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

HPLC/IC (Continued)

Leach Batch: 31641 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-35	CS-35	Soluble	Soil	DI Leach	
820-5243-36	CS-36	Soluble	Soil	DI Leach	
820-5243-37	CS-37	Soluble	Soil	DI Leach	
820-5243-38	CS-38	Soluble	Soil	DI Leach	
820-5243-39	CS-39	Soluble	Soil	DI Leach	
820-5243-40	CS-40	Soluble	Soil	DI Leach	
820-5243-41	CS-41	Soluble	Soil	DI Leach	
820-5243-42	CS-42	Soluble	Soil	DI Leach	
820-5243-43	CS-43	Soluble	Soil	DI Leach	
820-5243-44	CS-44	Soluble	Soil	DI Leach	
820-5243-45	CS-45	Soluble	Soil	DI Leach	
820-5243-46	CS-46	Soluble	Soil	DI Leach	
820-5243-47	CS-47	Soluble	Soil	DI Leach	
820-5243-48	CS-48	Soluble	Soil	DI Leach	
820-5243-49	CS-49	Soluble	Soil	DI Leach	
820-5243-50	CS-50	Soluble	Soil	DI Leach	
MB 880-31641/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-31641/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-31641/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
820-5243-31 MS	CS-31	Soluble	Soil	DI Leach	
820-5243-31 MSD	CS-31	Soluble	Soil	DI Leach	
820-5243-41 MS	CS-41	Soluble	Soil	DI Leach	
820-5243-41 MSD	CS-41	Soluble	Soil	DI Leach	

Leach Batch: 31642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-51	CS-51	Soluble	Soil	DI Leach	
820-5243-52	CS-52	Soluble	Soil	DI Leach	
820-5243-53	CS-53	Soluble	Soil	DI Leach	
820-5243-54	CS-54	Soluble	Soil	DI Leach	
820-5243-55	CS-55	Soluble	Soil	DI Leach	
820-5243-56	CS-56	Soluble	Soil	DI Leach	
820-5243-57	CS-57	Soluble	Soil	DI Leach	
820-5243-58	CS-58	Soluble	Soil	DI Leach	
820-5243-59	CS-59	Soluble	Soil	DI Leach	
820-5243-60	CS-60	Soluble	Soil	DI Leach	
820-5243-61	CS-61	Soluble	Soil	DI Leach	
820-5243-62	CS-62	Soluble	Soil	DI Leach	
820-5243-63	CS-63	Soluble	Soil	DI Leach	
820-5243-64	CS-64	Soluble	Soil	DI Leach	
820-5243-65	CS-65	Soluble	Soil	DI Leach	
820-5243-66	CS-66	Soluble	Soil	DI Leach	
820-5243-67	CS-67	Soluble	Soil	DI Leach	
820-5243-68	CS-68	Soluble	Soil	DI Leach	
820-5243-69	CS-69	Soluble	Soil	DI Leach	
820-5243-70	CS-70	Soluble	Soil	DI Leach	
MB 880-31642/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-31642/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-31642/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
820-5243-51 MS	CS-51	Soluble	Soil	DI Leach	
820-5243-51 MSD	CS-51	Soluble	Soil	DI Leach	

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

HPLC/IC (Continued)

Leach Batch: 31642 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-61 MS	CS-61	Soluble	Soil	DI Leach	
820-5243-61 MSD	CS-61	Soluble	Soil	DI Leach	

Leach Batch: 31643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-71	CS-71	Soluble	Soil	DI Leach	
820-5243-72	CS-72	Soluble	Soil	DI Leach	
820-5243-73	CS-73	Soluble	Soil	DI Leach	
820-5243-74	CS-74	Soluble	Soil	DI Leach	
820-5243-75	CS-75	Soluble	Soil	DI Leach	
820-5243-76	CS-76	Soluble	Soil	DI Leach	
820-5243-77	CS-77	Soluble	Soil	DI Leach	
820-5243-78	CS-78	Soluble	Soil	DI Leach	
820-5243-79	CS-79	Soluble	Soil	DI Leach	
820-5243-80	CS-80	Soluble	Soil	DI Leach	
820-5243-81	CS-81	Soluble	Soil	DI Leach	
820-5243-82	CS-82	Soluble	Soil	DI Leach	
820-5243-83	CS-83	Soluble	Soil	DI Leach	
820-5243-84	CS-84	Soluble	Soil	DI Leach	
820-5243-85	CS-85	Soluble	Soil	DI Leach	
820-5243-86	CS-86	Soluble	Soil	DI Leach	
820-5243-87	CS-87	Soluble	Soil	DI Leach	
820-5243-88	CS-88	Soluble	Soil	DI Leach	
820-5243-89	CS-89	Soluble	Soil	DI Leach	
820-5243-90	CS-90	Soluble	Soil	DI Leach	
MB 880-31643/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-31643/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-31643/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
820-5243-71 MS	CS-71	Soluble	Soil	DI Leach	
820-5243-71 MSD	CS-71	Soluble	Soil	DI Leach	
820-5243-81 MS	CS-81	Soluble	Soil	DI Leach	
820-5243-81 MSD	CS-81	Soluble	Soil	DI Leach	

Leach Batch: 31644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-91	CS-91	Soluble	Soil	DI Leach	
820-5243-92	CS-92	Soluble	Soil	DI Leach	
820-5243-93	CS-93	Soluble	Soil	DI Leach	
820-5243-94	CS-94	Soluble	Soil	DI Leach	
820-5243-95	CS-95	Soluble	Soil	DI Leach	
820-5243-96	CS-96	Soluble	Soil	DI Leach	
820-5243-97	CS-97	Soluble	Soil	DI Leach	
820-5243-98	CS-98	Soluble	Soil	DI Leach	
820-5243-99	CS-99	Soluble	Soil	DI Leach	
820-5243-100	CS-100	Soluble	Soil	DI Leach	
820-5243-101	CS-101	Soluble	Soil	DI Leach	
820-5243-102	CS-102	Soluble	Soil	DI Leach	
820-5243-103	CS-103	Soluble	Soil	DI Leach	
820-5243-104	CS-104	Soluble	Soil	DI Leach	
820-5243-105	CS-105	Soluble	Soil	DI Leach	
820-5243-106	CS-106	Soluble	Soil	DI Leach	

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

HPLC/IC (Continued)

Leach Batch: 31644 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-107	CS-107	Soluble	Soil	DI Leach	
820-5243-108	CS-108	Soluble	Soil	DI Leach	
820-5243-109	CS-109	Soluble	Soil	DI Leach	
820-5243-110	CS-110	Soluble	Soil	DI Leach	
MB 880-31644/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-31644/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-31644/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
820-5243-91 MS	CS-91	Soluble	Soil	DI Leach	
820-5243-91 MSD	CS-91	Soluble	Soil	DI Leach	
820-5243-101 MS	CS-101	Soluble	Soil	DI Leach	
820-5243-101 MSD	CS-101	Soluble	Soil	DI Leach	

Leach Batch: 31645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-111	CS-111	Soluble	Soil	DI Leach	
820-5243-112	CS-112	Soluble	Soil	DI Leach	
820-5243-113	CS-113	Soluble	Soil	DI Leach	
820-5243-114	CS-114	Soluble	Soil	DI Leach	
820-5243-115	CS-115	Soluble	Soil	DI Leach	
820-5243-116	CS-116	Soluble	Soil	DI Leach	
820-5243-117	CS-117	Soluble	Soil	DI Leach	
820-5243-118	CS-118	Soluble	Soil	DI Leach	
820-5243-119	CS-119	Soluble	Soil	DI Leach	
820-5243-120	CS-120	Soluble	Soil	DI Leach	
820-5243-121	CS-121	Soluble	Soil	DI Leach	
820-5243-122	CS-122	Soluble	Soil	DI Leach	
820-5243-123	SP-F	Soluble	Soil	DI Leach	
MB 880-31645/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-31645/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-31645/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
820-5243-111 MS	CS-111	Soluble	Soil	DI Leach	
820-5243-111 MSD	CS-111	Soluble	Soil	DI Leach	
820-5243-121 MS	CS-121	Soluble	Soil	DI Leach	
820-5243-121 MSD	CS-121	Soluble	Soil	DI Leach	

Analysis Batch: 31796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-1	CS-1	Soluble	Soil	300.0	31639
820-5243-2	CS-2	Soluble	Soil	300.0	31639
820-5243-3	CS-3	Soluble	Soil	300.0	31639
820-5243-4	CS-4	Soluble	Soil	300.0	31639
820-5243-5	CS-5	Soluble	Soil	300.0	31639
820-5243-6	CS-6	Soluble	Soil	300.0	31639
820-5243-7	CS-7	Soluble	Soil	300.0	31639
820-5243-8	CS-8	Soluble	Soil	300.0	31639
820-5243-9	CS-9	Soluble	Soil	300.0	31639
820-5243-10	CS-10	Soluble	Soil	300.0	31639
MB 880-31639/1-B	Method Blank	Soluble	Solid	300.0	31639
LCS 880-31639/2-B	Lab Control Sample	Soluble	Solid	300.0	31639
LCSD 880-31639/3-B	Lab Control Sample Dup	Soluble	Solid	300.0	31639
820-5243-1 MS	CS-1	Soluble	Soil	300.0	31639

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

HPLC/IC (Continued)

Analysis Batch: 31796 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-1 MSD	CS-1	Soluble	Soil	300.0	31639

Analysis Batch: 31905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-111	CS-111	Soluble	Soil	300.0	31645
820-5243-112	CS-112	Soluble	Soil	300.0	31645
820-5243-113	CS-113	Soluble	Soil	300.0	31645
820-5243-114	CS-114	Soluble	Soil	300.0	31645
820-5243-115	CS-115	Soluble	Soil	300.0	31645
820-5243-116	CS-116	Soluble	Soil	300.0	31645
820-5243-117	CS-117	Soluble	Soil	300.0	31645
820-5243-118	CS-118	Soluble	Soil	300.0	31645
820-5243-119	CS-119	Soluble	Soil	300.0	31645
820-5243-120	CS-120	Soluble	Soil	300.0	31645
820-5243-121	CS-121	Soluble	Soil	300.0	31645
820-5243-122	CS-122	Soluble	Soil	300.0	31645
820-5243-123	SP-F	Soluble	Soil	300.0	31645
MB 880-31645/1-A	Method Blank	Soluble	Solid	300.0	31645
LCS 880-31645/2-A	Lab Control Sample	Soluble	Solid	300.0	31645
LCSD 880-31645/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	31645
820-5243-111 MS	CS-111	Soluble	Soil	300.0	31645
820-5243-111 MSD	CS-111	Soluble	Soil	300.0	31645
820-5243-121 MS	CS-121	Soluble	Soil	300.0	31645
820-5243-121 MSD	CS-121	Soluble	Soil	300.0	31645

Analysis Batch: 31907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-31	CS-31	Soluble	Soil	300.0	31641
820-5243-32	CS-32	Soluble	Soil	300.0	31641
820-5243-33	CS-33	Soluble	Soil	300.0	31641
820-5243-34	CS-34	Soluble	Soil	300.0	31641
820-5243-35	CS-35	Soluble	Soil	300.0	31641
820-5243-36	CS-36	Soluble	Soil	300.0	31641
820-5243-37	CS-37	Soluble	Soil	300.0	31641
820-5243-38	CS-38	Soluble	Soil	300.0	31641
820-5243-39	CS-39	Soluble	Soil	300.0	31641
820-5243-40	CS-40	Soluble	Soil	300.0	31641
820-5243-41	CS-41	Soluble	Soil	300.0	31641
820-5243-42	CS-42	Soluble	Soil	300.0	31641
820-5243-43	CS-43	Soluble	Soil	300.0	31641
820-5243-44	CS-44	Soluble	Soil	300.0	31641
820-5243-45	CS-45	Soluble	Soil	300.0	31641
820-5243-46	CS-46	Soluble	Soil	300.0	31641
820-5243-47	CS-47	Soluble	Soil	300.0	31641
820-5243-48	CS-48	Soluble	Soil	300.0	31641
820-5243-49	CS-49	Soluble	Soil	300.0	31641
820-5243-50	CS-50	Soluble	Soil	300.0	31641
MB 880-31641/1-A	Method Blank	Soluble	Solid	300.0	31641
LCS 880-31641/2-A	Lab Control Sample	Soluble	Solid	300.0	31641
LCSD 880-31641/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	31641
820-5243-31 MS	CS-31	Soluble	Soil	300.0	31641

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

HPLC/IC (Continued)

Analysis Batch: 31907 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-31 MSD	CS-31	Soluble	Soil	300.0	31641
820-5243-41 MS	CS-41	Soluble	Soil	300.0	31641
820-5243-41 MSD	CS-41	Soluble	Soil	300.0	31641

Analysis Batch: 31908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-11	CS-11	Soluble	Soil	300.0	31640
820-5243-12	CS-12	Soluble	Soil	300.0	31640
820-5243-13	CS-13	Soluble	Soil	300.0	31640
820-5243-14	CS-14	Soluble	Soil	300.0	31640
820-5243-15	CS-15	Soluble	Soil	300.0	31640
820-5243-16	CS-16	Soluble	Soil	300.0	31640
820-5243-17	CS-17	Soluble	Soil	300.0	31640
820-5243-18	CS-18	Soluble	Soil	300.0	31640
820-5243-19	CS-19	Soluble	Soil	300.0	31640
820-5243-20	CS-20	Soluble	Soil	300.0	31640
820-5243-21	CS-21	Soluble	Soil	300.0	31640
820-5243-22	CS-22	Soluble	Soil	300.0	31640
820-5243-23	CS-23	Soluble	Soil	300.0	31640
820-5243-24	CS-24	Soluble	Soil	300.0	31640
820-5243-25	CS-25	Soluble	Soil	300.0	31640
820-5243-26	CS-26	Soluble	Soil	300.0	31640
820-5243-27	CS-27	Soluble	Soil	300.0	31640
820-5243-28	CS-28	Soluble	Soil	300.0	31640
820-5243-29	CS-29	Soluble	Soil	300.0	31640
820-5243-30	CS-30	Soluble	Soil	300.0	31640
MB 880-31640/1-A	Method Blank	Soluble	Solid	300.0	31640
LCS 880-31640/2-A	Lab Control Sample	Soluble	Solid	300.0	31640
LCSD 880-31640/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	31640
820-5243-11 MS	CS-11	Soluble	Soil	300.0	31640
820-5243-11 MSD	CS-11	Soluble	Soil	300.0	31640
820-5243-21 MS	CS-21	Soluble	Soil	300.0	31640
820-5243-21 MSD	CS-21	Soluble	Soil	300.0	31640

Analysis Batch: 31909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-71	CS-71	Soluble	Soil	300.0	31643
820-5243-72	CS-72	Soluble	Soil	300.0	31643
820-5243-73	CS-73	Soluble	Soil	300.0	31643
820-5243-74	CS-74	Soluble	Soil	300.0	31643
820-5243-75	CS-75	Soluble	Soil	300.0	31643
820-5243-76	CS-76	Soluble	Soil	300.0	31643
820-5243-77	CS-77	Soluble	Soil	300.0	31643
820-5243-78	CS-78	Soluble	Soil	300.0	31643
820-5243-79	CS-79	Soluble	Soil	300.0	31643
820-5243-80	CS-80	Soluble	Soil	300.0	31643
820-5243-81	CS-81	Soluble	Soil	300.0	31643
820-5243-82	CS-82	Soluble	Soil	300.0	31643
820-5243-83	CS-83	Soluble	Soil	300.0	31643
820-5243-84	CS-84	Soluble	Soil	300.0	31643
820-5243-85	CS-85	Soluble	Soil	300.0	31643

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

HPLC/IC (Continued)

Analysis Batch: 31909 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-86	CS-86	Soluble	Soil	300.0	31643
820-5243-87	CS-87	Soluble	Soil	300.0	31643
820-5243-88	CS-88	Soluble	Soil	300.0	31643
820-5243-89	CS-89	Soluble	Soil	300.0	31643
820-5243-90	CS-90	Soluble	Soil	300.0	31643
MB 880-31643/1-A	Method Blank	Soluble	Solid	300.0	31643
LCS 880-31643/2-A	Lab Control Sample	Soluble	Solid	300.0	31643
LCSD 880-31643/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	31643
820-5243-71 MS	CS-71	Soluble	Soil	300.0	31643
820-5243-71 MSD	CS-71	Soluble	Soil	300.0	31643
820-5243-81 MS	CS-81	Soluble	Soil	300.0	31643
820-5243-81 MSD	CS-81	Soluble	Soil	300.0	31643

Analysis Batch: 31910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-91	CS-91	Soluble	Soil	300.0	31644
820-5243-92	CS-92	Soluble	Soil	300.0	31644
820-5243-93	CS-93	Soluble	Soil	300.0	31644
820-5243-94	CS-94	Soluble	Soil	300.0	31644
820-5243-95	CS-95	Soluble	Soil	300.0	31644
820-5243-96	CS-96	Soluble	Soil	300.0	31644
820-5243-97	CS-97	Soluble	Soil	300.0	31644
820-5243-98	CS-98	Soluble	Soil	300.0	31644
820-5243-99	CS-99	Soluble	Soil	300.0	31644
820-5243-100	CS-100	Soluble	Soil	300.0	31644
820-5243-101	CS-101	Soluble	Soil	300.0	31644
820-5243-102	CS-102	Soluble	Soil	300.0	31644
820-5243-103	CS-103	Soluble	Soil	300.0	31644
820-5243-104	CS-104	Soluble	Soil	300.0	31644
820-5243-105	CS-105	Soluble	Soil	300.0	31644
820-5243-106	CS-106	Soluble	Soil	300.0	31644
820-5243-107	CS-107	Soluble	Soil	300.0	31644
820-5243-108	CS-108	Soluble	Soil	300.0	31644
820-5243-109	CS-109	Soluble	Soil	300.0	31644
820-5243-110	CS-110	Soluble	Soil	300.0	31644
MB 880-31644/1-A	Method Blank	Soluble	Solid	300.0	31644
LCS 880-31644/2-A	Lab Control Sample	Soluble	Solid	300.0	31644
LCSD 880-31644/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	31644
820-5243-91 MS	CS-91	Soluble	Soil	300.0	31644
820-5243-91 MSD	CS-91	Soluble	Soil	300.0	31644
820-5243-101 MS	CS-101	Soluble	Soil	300.0	31644
820-5243-101 MSD	CS-101	Soluble	Soil	300.0	31644

Analysis Batch: 31939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-51	CS-51	Soluble	Soil	300.0	31642
820-5243-52	CS-52	Soluble	Soil	300.0	31642
820-5243-53	CS-53	Soluble	Soil	300.0	31642
820-5243-54	CS-54	Soluble	Soil	300.0	31642
820-5243-55	CS-55	Soluble	Soil	300.0	31642
820-5243-56	CS-56	Soluble	Soil	300.0	31642

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

HPLC/IC (Continued)

Analysis Batch: 31939 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5243-57	CS-57	Soluble	Soil	300.0	31642
820-5243-58	CS-58	Soluble	Soil	300.0	31642
820-5243-59	CS-59	Soluble	Soil	300.0	31642
820-5243-60	CS-60	Soluble	Soil	300.0	31642
820-5243-61	CS-61	Soluble	Soil	300.0	31642
820-5243-62	CS-62	Soluble	Soil	300.0	31642
820-5243-63	CS-63	Soluble	Soil	300.0	31642
820-5243-64	CS-64	Soluble	Soil	300.0	31642
820-5243-65	CS-65	Soluble	Soil	300.0	31642
820-5243-66	CS-66	Soluble	Soil	300.0	31642
820-5243-67	CS-67	Soluble	Soil	300.0	31642
820-5243-68	CS-68	Soluble	Soil	300.0	31642
820-5243-69	CS-69	Soluble	Soil	300.0	31642
820-5243-70	CS-70	Soluble	Soil	300.0	31642
MB 880-31642/1-A	Method Blank	Soluble	Solid	300.0	31642
LCS 880-31642/2-A	Lab Control Sample	Soluble	Solid	300.0	31642
LCSD 880-31642/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	31642
820-5243-51 MS	CS-51	Soluble	Soil	300.0	31642
820-5243-51 MSD	CS-51	Soluble	Soil	300.0	31642
820-5243-61 MS	CS-61	Soluble	Soil	300.0	31642
820-5243-61 MSD	CS-61	Soluble	Soil	300.0	31642

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-1

Lab Sample ID: 820-5243-1

Date Collected: 08/04/22 10:30

Matrix: Soil

Date Received: 08/05/22 14:02

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	31714	08/08/22 09:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31835	08/09/22 11:55	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31681	08/08/22 08:19	DM	EET MID
Total/NA	Analysis	8015B NM		1			31670	08/08/22 11:45	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	31639	08/06/22 16:25	CH	EET MID
Soluble	Analysis	300.0		1			31796	08/09/22 07:34	CH	EET MID

Client Sample ID: CS-2

Lab Sample ID: 820-5243-2

Date Collected: 08/04/22 10:32

Matrix: Soil

Date Received: 08/05/22 14:02

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	31714	08/08/22 09:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31835	08/09/22 12:15	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	31681	08/08/22 08:19	DM	EET MID
Total/NA	Analysis	8015B NM		1			31670	08/08/22 12:50	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	31639	08/06/22 16:25	CH	EET MID
Soluble	Analysis	300.0		5			31796	08/09/22 07:58	CH	EET MID

Client Sample ID: CS-3

Lab Sample ID: 820-5243-3

Date Collected: 08/04/22 10:34

Matrix: Soil

Date Received: 08/05/22 14:02

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	31714	08/08/22 09:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31835	08/09/22 12:36	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31681	08/08/22 08:19	DM	EET MID
Total/NA	Analysis	8015B NM		1			31670	08/08/22 13:11	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	31639	08/06/22 16:25	CH	EET MID
Soluble	Analysis	300.0		1			31796	08/09/22 08:06	CH	EET MID

Client Sample ID: CS-4

Lab Sample ID: 820-5243-4

Date Collected: 08/04/22 10:36

Matrix: Soil

Date Received: 08/05/22 14:02

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	31714	08/08/22 09:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31835	08/09/22 12:56	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-4

Lab Sample ID: 820-5243-4

Date Collected: 08/04/22 10:36

Matrix: Soil

Date Received: 08/05/22 14:02

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			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31681	08/08/22 08:19	DM	EET MID
Total/NA	Analysis	8015B NM		1			31670	08/08/22 13:33	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	31639	08/06/22 16:25	CH	EET MID
Soluble	Analysis	300.0		1			31796	08/09/22 08:29	CH	EET MID

Client Sample ID: CS-5

Lab Sample ID: 820-5243-5

Date Collected: 08/04/22 10:38

Matrix: Soil

Date Received: 08/05/22 14:02

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	31714	08/08/22 09:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31835	08/09/22 13:17	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	31681	08/08/22 08:19	DM	EET MID
Total/NA	Analysis	8015B NM		1			31670	08/08/22 13:55	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	31639	08/06/22 16:25	CH	EET MID
Soluble	Analysis	300.0		1			31796	08/09/22 22:03	CH	EET MID

Client Sample ID: CS-6

Lab Sample ID: 820-5243-6

Date Collected: 08/04/22 10:40

Matrix: Soil

Date Received: 08/05/22 14:02

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	31714	08/08/22 09:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31835	08/09/22 13:37	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31681	08/08/22 08:19	DM	EET MID
Total/NA	Analysis	8015B NM		1			31670	08/08/22 14:16	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	31639	08/06/22 16:25	CH	EET MID
Soluble	Analysis	300.0		1			31796	08/09/22 22:11	CH	EET MID

Client Sample ID: CS-7

Lab Sample ID: 820-5243-7

Date Collected: 08/04/22 10:42

Matrix: Soil

Date Received: 08/05/22 14:02

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	31714	08/08/22 09:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31835	08/09/22 13:58	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31681	08/08/22 08:19	DM	EET MID
Total/NA	Analysis	8015B NM		1			31670	08/08/22 14:38	SM	EET MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-7

Lab Sample ID: 820-5243-7

Date Collected: 08/04/22 10:42

Matrix: Soil

Date Received: 08/05/22 14:02

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	31639	08/06/22 16:25	CH	EET MID
Soluble	Analysis	300.0		1			31796	08/09/22 22:19	CH	EET MID

Client Sample ID: CS-8

Lab Sample ID: 820-5243-8

Date Collected: 08/04/22 10:44

Matrix: Soil

Date Received: 08/05/22 14:02

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	31714	08/08/22 09:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31835	08/09/22 14:18	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31681	08/08/22 08:19	DM	EET MID
Total/NA	Analysis	8015B NM		1			31670	08/08/22 15:00	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	31639	08/06/22 16:25	CH	EET MID
Soluble	Analysis	300.0		1			31796	08/09/22 22:27	CH	EET MID

Client Sample ID: CS-9

Lab Sample ID: 820-5243-9

Date Collected: 08/04/22 10:46

Matrix: Soil

Date Received: 08/05/22 14:02

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	31714	08/08/22 09:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31835	08/09/22 14:39	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31681	08/08/22 08:19	DM	EET MID
Total/NA	Analysis	8015B NM		1			31670	08/08/22 15:22	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	31639	08/06/22 16:25	CH	EET MID
Soluble	Analysis	300.0		1			31796	08/09/22 09:09	CH	EET MID

Client Sample ID: CS-10

Lab Sample ID: 820-5243-10

Date Collected: 08/04/22 10:48

Matrix: Soil

Date Received: 08/05/22 14:02

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	31714	08/08/22 09:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31835	08/09/22 14:59	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31681	08/08/22 08:19	DM	EET MID
Total/NA	Analysis	8015B NM		1			31670	08/08/22 15:44	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	31639	08/06/22 16:25	CH	EET MID
Soluble	Analysis	300.0		5			31796	08/09/22 09:16	CH	EET MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-11

Lab Sample ID: 820-5243-11

Date Collected: 08/04/22 10:50

Matrix: Soil

Date Received: 08/05/22 14:02

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	31714	08/08/22 09:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31835	08/09/22 17:48	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	31681	08/08/22 08:19	DM	EET MID
Total/NA	Analysis	8015B NM		1			31670	08/08/22 16:27	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	31640	08/06/22 16:28	CH	EET MID
Soluble	Analysis	300.0		1			31908	08/11/22 09:25	AJ	EET MID

Client Sample ID: CS-12

Lab Sample ID: 820-5243-12

Date Collected: 08/04/22 10:52

Matrix: Soil

Date Received: 08/05/22 14:02

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	31714	08/08/22 09:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31835	08/09/22 18:08	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	31681	08/08/22 08:19	DM	EET MID
Total/NA	Analysis	8015B NM		1			31670	08/08/22 16:49	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	31640	08/06/22 16:28	CH	EET MID
Soluble	Analysis	300.0		1			31908	08/11/22 09:48	AJ	EET MID

Client Sample ID: CS-13

Lab Sample ID: 820-5243-13

Date Collected: 08/04/22 10:54

Matrix: Soil

Date Received: 08/05/22 14:02

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	31714	08/08/22 09:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31835	08/09/22 18:29	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31681	08/08/22 08:19	DM	EET MID
Total/NA	Analysis	8015B NM		1			31670	08/08/22 17:11	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	31640	08/06/22 16:28	CH	EET MID
Soluble	Analysis	300.0		1			31908	08/11/22 09:56	AJ	EET MID

Client Sample ID: CS-14

Lab Sample ID: 820-5243-14

Date Collected: 08/04/22 10:56

Matrix: Soil

Date Received: 08/05/22 14:02

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	31714	08/08/22 09:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31835	08/09/22 18:49	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-14

Lab Sample ID: 820-5243-14

Date Collected: 08/04/22 10:56

Matrix: Soil

Date Received: 08/05/22 14:02

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			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31681	08/08/22 08:19	DM	EET MID
Total/NA	Analysis	8015B NM		1			31670	08/08/22 17:32	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	31640	08/06/22 16:28	CH	EET MID
Soluble	Analysis	300.0		1			31908	08/11/22 10:04	AJ	EET MID

Client Sample ID: CS-15

Lab Sample ID: 820-5243-15

Date Collected: 08/04/22 10:58

Matrix: Soil

Date Received: 08/05/22 14:02

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	31714	08/08/22 09:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31835	08/09/22 19:10	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31681	08/08/22 08:19	DM	EET MID
Total/NA	Analysis	8015B NM		1			31670	08/08/22 17:54	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	31640	08/06/22 16:28	CH	EET MID
Soluble	Analysis	300.0		1			31908	08/11/22 10:12	AJ	EET MID

Client Sample ID: CS-16

Lab Sample ID: 820-5243-16

Date Collected: 08/04/22 11:00

Matrix: Soil

Date Received: 08/05/22 14:02

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	31714	08/08/22 09:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31835	08/09/22 19:30	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	31681	08/08/22 08:19	DM	EET MID
Total/NA	Analysis	8015B NM		1			31670	08/08/22 18:16	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	31640	08/06/22 16:28	CH	EET MID
Soluble	Analysis	300.0		1			31908	08/11/22 10:35	AJ	EET MID

Client Sample ID: CS-17

Lab Sample ID: 820-5243-17

Date Collected: 08/04/22 11:02

Matrix: Soil

Date Received: 08/05/22 14:02

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	31714	08/08/22 09:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31835	08/09/22 19:51	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	31681	08/08/22 08:19	DM	EET MID
Total/NA	Analysis	8015B NM		1			31670	08/08/22 18:37	SM	EET MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-17

Lab Sample ID: 820-5243-17

Date Collected: 08/04/22 11:02

Matrix: Soil

Date Received: 08/05/22 14:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	31640	08/06/22 16:28	CH	EET MID
Soluble	Analysis	300.0		1			31908	08/11/22 10:43	AJ	EET MID

Client Sample ID: CS-18

Lab Sample ID: 820-5243-18

Date Collected: 08/04/22 11:04

Matrix: Soil

Date Received: 08/05/22 14:02

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	31714	08/08/22 09:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31835	08/09/22 20:11	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31681	08/08/22 08:19	DM	EET MID
Total/NA	Analysis	8015B NM		1			31670	08/08/22 18:59	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	31640	08/06/22 16:28	CH	EET MID
Soluble	Analysis	300.0		5			31908	08/11/22 10:51	AJ	EET MID

Client Sample ID: CS-19

Lab Sample ID: 820-5243-19

Date Collected: 08/04/22 11:06

Matrix: Soil

Date Received: 08/05/22 14:02

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	31714	08/08/22 09:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31835	08/09/22 20:32	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	31681	08/08/22 08:19	DM	EET MID
Total/NA	Analysis	8015B NM		1			31670	08/08/22 19:21	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	31640	08/06/22 16:28	CH	EET MID
Soluble	Analysis	300.0		1			31908	08/11/22 10:59	AJ	EET MID

Client Sample ID: CS-20

Lab Sample ID: 820-5243-20

Date Collected: 08/04/22 11:08

Matrix: Soil

Date Received: 08/05/22 14:02

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	31714	08/08/22 09:51	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31835	08/09/22 20:53	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	31681	08/08/22 08:19	DM	EET MID
Total/NA	Analysis	8015B NM		1			31670	08/08/22 19:42	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	31640	08/06/22 16:28	CH	EET MID
Soluble	Analysis	300.0		1			31908	08/11/22 11:07	AJ	EET MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-21

Lab Sample ID: 820-5243-21

Date Collected: 08/04/22 11:10

Matrix: Soil

Date Received: 08/05/22 14:02

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	31715	08/08/22 09:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31679	08/09/22 01:22	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31682	08/08/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1			31672	08/08/22 21:31	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	31640	08/06/22 16:28	CH	EET MID
Soluble	Analysis	300.0		1			31908	08/11/22 11:15	AJ	EET MID

Client Sample ID: CS-22

Lab Sample ID: 820-5243-22

Date Collected: 08/04/22 11:12

Matrix: Soil

Date Received: 08/05/22 14:02

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	31715	08/08/22 09:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31679	08/09/22 01:42	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	31682	08/08/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1			31672	08/08/22 22:36	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	31640	08/06/22 16:28	CH	EET MID
Soluble	Analysis	300.0		1			31908	08/11/22 11:38	AJ	EET MID

Client Sample ID: CS-23

Lab Sample ID: 820-5243-23

Date Collected: 08/04/22 11:14

Matrix: Soil

Date Received: 08/05/22 14:02

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	31715	08/08/22 09:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31679	08/09/22 02:03	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31682	08/08/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1			31672	08/08/22 22:58	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	31640	08/06/22 16:28	CH	EET MID
Soluble	Analysis	300.0		1			31908	08/11/22 11:46	AJ	EET MID

Client Sample ID: CS-24

Lab Sample ID: 820-5243-24

Date Collected: 08/04/22 11:16

Matrix: Soil

Date Received: 08/05/22 14:02

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	31715	08/08/22 09:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31679	08/09/22 02:24	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-24

Lab Sample ID: 820-5243-24

Date Collected: 08/04/22 11:16

Matrix: Soil

Date Received: 08/05/22 14:02

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			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	31682	08/08/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1			31672	08/08/22 23:20	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	31640	08/06/22 16:28	CH	EET MID
Soluble	Analysis	300.0		1			31908	08/11/22 12:10	AJ	EET MID

Client Sample ID: CS-25

Lab Sample ID: 820-5243-25

Date Collected: 08/04/22 11:18

Matrix: Soil

Date Received: 08/05/22 14:02

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	31715	08/08/22 09:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31679	08/09/22 02:44	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	31682	08/08/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1			31672	08/08/22 23:42	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	31640	08/06/22 16:28	CH	EET MID
Soluble	Analysis	300.0		5			31908	08/11/22 12:18	AJ	EET MID

Client Sample ID: CS-26

Lab Sample ID: 820-5243-26

Date Collected: 08/04/22 11:20

Matrix: Soil

Date Received: 08/05/22 14:02

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	31715	08/08/22 09:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31679	08/09/22 03:05	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31682	08/08/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1			31672	08/09/22 00:03	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	31640	08/06/22 16:28	CH	EET MID
Soluble	Analysis	300.0		1			31908	08/11/22 12:25	AJ	EET MID

Client Sample ID: CS-27

Lab Sample ID: 820-5243-27

Date Collected: 08/04/22 11:22

Matrix: Soil

Date Received: 08/05/22 14:02

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	31715	08/08/22 09:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31679	08/09/22 03:25	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31682	08/08/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1			31672	08/09/22 00:24	SM	EET MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-27

Lab Sample ID: 820-5243-27

Date Collected: 08/04/22 11:22

Matrix: Soil

Date Received: 08/05/22 14:02

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	31640	08/06/22 16:28	CH	EET MID
Soluble	Analysis	300.0		1			31908	08/11/22 12:33	AJ	EET MID

Client Sample ID: CS-28

Lab Sample ID: 820-5243-28

Date Collected: 08/04/22 11:24

Matrix: Soil

Date Received: 08/05/22 14:02

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	31715	08/08/22 09:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31679	08/09/22 03:46	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31682	08/08/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1			31672	08/09/22 00:45	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	31640	08/06/22 16:28	CH	EET MID
Soluble	Analysis	300.0		1			31908	08/11/22 12:41	AJ	EET MID

Client Sample ID: CS-29

Lab Sample ID: 820-5243-29

Date Collected: 08/04/22 11:26

Matrix: Soil

Date Received: 08/05/22 14:02

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	31715	08/08/22 09:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31679	08/09/22 08:32	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31682	08/08/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1			31672	08/09/22 01:06	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	31640	08/06/22 16:28	CH	EET MID
Soluble	Analysis	300.0		1			31908	08/11/22 12:49	AJ	EET MID

Client Sample ID: CS-30

Lab Sample ID: 820-5243-30

Date Collected: 08/04/22 11:28

Matrix: Soil

Date Received: 08/05/22 14:02

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	31715	08/08/22 09:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31679	08/09/22 08:52	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31682	08/08/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1			31672	08/09/22 01:28	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	31640	08/06/22 16:28	CH	EET MID
Soluble	Analysis	300.0		1			31908	08/11/22 12:57	AJ	EET MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-31

Lab Sample ID: 820-5243-31

Date Collected: 08/04/22 11:30

Matrix: Soil

Date Received: 08/05/22 14:02

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	31715	08/08/22 09:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31679	08/09/22 09:56	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	31682	08/08/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1			31672	08/09/22 02:10	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	31641	08/06/22 16:31	CH	EET MID
Soluble	Analysis	300.0		1			31907	08/10/22 08:59	SMC	EET MID

Client Sample ID: CS-32

Lab Sample ID: 820-5243-32

Date Collected: 08/04/22 11:32

Matrix: Soil

Date Received: 08/05/22 14:02

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	31715	08/08/22 09:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31679	08/09/22 10:17	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	31682	08/08/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1			31672	08/09/22 02:31	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	31641	08/06/22 16:31	CH	EET MID
Soluble	Analysis	300.0		5			31907	08/10/22 09:26	SMC	EET MID

Client Sample ID: CS-33

Lab Sample ID: 820-5243-33

Date Collected: 08/04/22 11:34

Matrix: Soil

Date Received: 08/05/22 14:02

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	31715	08/08/22 09:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31679	08/09/22 10:37	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31682	08/08/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1			31672	08/09/22 02:52	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	31641	08/06/22 16:31	CH	EET MID
Soluble	Analysis	300.0		5			31907	08/10/22 09:36	SMC	EET MID

Client Sample ID: CS-34

Lab Sample ID: 820-5243-34

Date Collected: 08/04/22 11:36

Matrix: Soil

Date Received: 08/05/22 14:02

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	31715	08/08/22 09:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31679	08/09/22 10:58	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-34

Lab Sample ID: 820-5243-34

Date Collected: 08/04/22 11:36

Matrix: Soil

Date Received: 08/05/22 14:02

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			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31682	08/08/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1			31672	08/09/22 03:13	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	31641	08/06/22 16:31	CH	EET MID
Soluble	Analysis	300.0		1			31907	08/10/22 09:45	SMC	EET MID

Client Sample ID: CS-35

Lab Sample ID: 820-5243-35

Date Collected: 08/04/22 11:38

Matrix: Soil

Date Received: 08/05/22 14:02

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	31715	08/08/22 09:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31679	08/09/22 11:19	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31682	08/08/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1			31672	08/09/22 03:34	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	31641	08/06/22 16:31	CH	EET MID
Soluble	Analysis	300.0		1			31907	08/10/22 09:54	SMC	EET MID

Client Sample ID: CS-36

Lab Sample ID: 820-5243-36

Date Collected: 08/04/22 11:40

Matrix: Soil

Date Received: 08/05/22 14:02

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	31715	08/08/22 09:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31679	08/09/22 11:40	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	31682	08/08/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1			31672	08/09/22 03:55	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	31641	08/06/22 16:31	CH	EET MID
Soluble	Analysis	300.0		1			31907	08/10/22 10:22	SMC	EET MID

Client Sample ID: CS-37

Lab Sample ID: 820-5243-37

Date Collected: 08/04/22 11:42

Matrix: Soil

Date Received: 08/05/22 14:02

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	31715	08/08/22 09:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31679	08/09/22 12:01	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	31682	08/08/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1			31672	08/09/22 04:16	SM	EET MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-37

Lab Sample ID: 820-5243-37

Date Collected: 08/04/22 11:42

Matrix: Soil

Date Received: 08/05/22 14:02

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	31641	08/06/22 16:31	CH	EET MID
Soluble	Analysis	300.0		1			31907	08/10/22 10:31	SMC	EET MID

Client Sample ID: CS-38

Lab Sample ID: 820-5243-38

Date Collected: 08/04/22 11:44

Matrix: Soil

Date Received: 08/05/22 14:02

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	31715	08/08/22 09:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31679	08/09/22 12:21	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31682	08/08/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1			31672	08/09/22 04:37	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	31641	08/06/22 16:31	CH	EET MID
Soluble	Analysis	300.0		1			31907	08/10/22 13:17	SMC	EET MID

Client Sample ID: CS-39

Lab Sample ID: 820-5243-39

Date Collected: 08/04/22 11:46

Matrix: Soil

Date Received: 08/05/22 14:02

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	31715	08/08/22 09:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31679	08/09/22 12:42	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	31682	08/08/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1			31672	08/09/22 04:58	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	31641	08/06/22 16:31	CH	EET MID
Soluble	Analysis	300.0		10			31907	08/10/22 10:49	SMC	EET MID

Client Sample ID: CS-40

Lab Sample ID: 820-5243-40

Date Collected: 08/04/22 11:48

Matrix: Soil

Date Received: 08/05/22 14:02

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	31715	08/08/22 09:59	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31679	08/09/22 13:03	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	31682	08/08/22 08:21	DM	EET MID
Total/NA	Analysis	8015B NM		1			31672	08/09/22 05:20	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	31641	08/06/22 16:31	CH	EET MID
Soluble	Analysis	300.0		1			31907	08/10/22 13:26	SMC	EET MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-41

Lab Sample ID: 820-5243-41

Date Collected: 08/04/22 11:50

Matrix: Soil

Date Received: 08/05/22 14:02

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	31716	08/08/22 10:06	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31827	08/09/22 13:17	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31683	08/08/22 08:22	DM	EET MID
Total/NA	Analysis	8015B NM		1			31676	08/08/22 11:19	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	31641	08/06/22 16:31	CH	EET MID
Soluble	Analysis	300.0		1			31907	08/10/22 11:08	SMC	EET MID

Client Sample ID: CS-42

Lab Sample ID: 820-5243-42

Date Collected: 08/04/22 11:52

Matrix: Soil

Date Received: 08/05/22 14:02

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	31716	08/08/22 10:06	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31827	08/09/22 13:38	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	31683	08/08/22 08:22	DM	EET MID
Total/NA	Analysis	8015B NM		1			31676	08/08/22 12:24	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	31641	08/06/22 16:31	CH	EET MID
Soluble	Analysis	300.0		1			31907	08/10/22 11:35	SMC	EET MID

Client Sample ID: CS-43

Lab Sample ID: 820-5243-43

Date Collected: 08/04/22 11:54

Matrix: Soil

Date Received: 08/05/22 14:02

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	31716	08/08/22 10:06	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31827	08/09/22 13:58	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31683	08/08/22 08:22	DM	EET MID
Total/NA	Analysis	8015B NM		1			31676	08/08/22 12:45	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	31641	08/06/22 16:31	CH	EET MID
Soluble	Analysis	300.0		5			31907	08/10/22 11:45	SMC	EET MID

Client Sample ID: CS-44

Lab Sample ID: 820-5243-44

Date Collected: 08/04/22 11:56

Matrix: Soil

Date Received: 08/05/22 14:02

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	31716	08/08/22 10:06	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31827	08/09/22 14:19	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-44

Lab Sample ID: 820-5243-44

Date Collected: 08/04/22 11:56

Matrix: Soil

Date Received: 08/05/22 14:02

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			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	31683	08/08/22 08:22	DM	EET MID
Total/NA	Analysis	8015B NM		1			31676	08/08/22 13:07	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	31641	08/06/22 16:31	CH	EET MID
Soluble	Analysis	300.0		1			31907	08/10/22 12:12	SMC	EET MID

Client Sample ID: CS-45

Lab Sample ID: 820-5243-45

Date Collected: 08/04/22 11:58

Matrix: Soil

Date Received: 08/05/22 14:02

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	31716	08/08/22 10:06	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31827	08/09/22 14:39	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	31683	08/08/22 08:22	DM	EET MID
Total/NA	Analysis	8015B NM		1			31676	08/08/22 13:29	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	31641	08/06/22 16:31	CH	EET MID
Soluble	Analysis	300.0		1			31907	08/10/22 12:22	SMC	EET MID

Client Sample ID: CS-46

Lab Sample ID: 820-5243-46

Date Collected: 08/04/22 12:00

Matrix: Soil

Date Received: 08/05/22 14:02

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	31716	08/08/22 10:06	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31827	08/09/22 15:00	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31683	08/08/22 08:22	DM	EET MID
Total/NA	Analysis	8015B NM		1			31676	08/08/22 13:50	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	31641	08/06/22 16:31	CH	EET MID
Soluble	Analysis	300.0		1			31907	08/10/22 12:31	SMC	EET MID

Client Sample ID: CS-47

Lab Sample ID: 820-5243-47

Date Collected: 08/04/22 12:02

Matrix: Soil

Date Received: 08/05/22 14:02

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	31716	08/08/22 10:06	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31827	08/09/22 15:20	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31683	08/08/22 08:22	DM	EET MID
Total/NA	Analysis	8015B NM		1			31676	08/08/22 14:12	SM	EET MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-47

Lab Sample ID: 820-5243-47

Date Collected: 08/04/22 12:02

Matrix: Soil

Date Received: 08/05/22 14:02

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	31641	08/06/22 16:31	CH	EET MID
Soluble	Analysis	300.0		1			31907	08/10/22 12:40	SMC	EET MID

Client Sample ID: CS-48

Lab Sample ID: 820-5243-48

Date Collected: 08/04/22 12:04

Matrix: Soil

Date Received: 08/05/22 14:02

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	31716	08/08/22 10:06	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31827	08/09/22 15:41	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31683	08/08/22 08:22	DM	EET MID
Total/NA	Analysis	8015B NM		1			31676	08/08/22 14:34	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	31641	08/06/22 16:31	CH	EET MID
Soluble	Analysis	300.0		1			31907	08/10/22 12:49	SMC	EET MID

Client Sample ID: CS-49

Lab Sample ID: 820-5243-49

Date Collected: 08/04/22 12:06

Matrix: Soil

Date Received: 08/05/22 14:02

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	31716	08/08/22 10:06	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31827	08/09/22 16:01	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31683	08/08/22 08:22	DM	EET MID
Total/NA	Analysis	8015B NM		1			31676	08/08/22 14:55	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	31641	08/06/22 16:31	CH	EET MID
Soluble	Analysis	300.0		1			31907	08/10/22 12:59	SMC	EET MID

Client Sample ID: CS-50

Lab Sample ID: 820-5243-50

Date Collected: 08/04/22 12:08

Matrix: Soil

Date Received: 08/05/22 14:02

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	31716	08/08/22 10:06	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31827	08/09/22 16:22	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31683	08/08/22 08:22	DM	EET MID
Total/NA	Analysis	8015B NM		1			31676	08/08/22 15:16	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	31641	08/06/22 16:31	CH	EET MID
Soluble	Analysis	300.0		1			31907	08/10/22 13:08	SMC	EET MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-51

Lab Sample ID: 820-5243-51

Date Collected: 08/04/22 12:10

Matrix: Soil

Date Received: 08/05/22 14:02

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	31716	08/08/22 10:06	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31827	08/09/22 18:13	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	31683	08/08/22 08:22	DM	EET MID
Total/NA	Analysis	8015B NM		1			31676	08/08/22 16:00	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	31642	08/06/22 16:33	CH	EET MID
Soluble	Analysis	300.0		1			31939	08/10/22 17:11	AJ	EET MID

Client Sample ID: CS-52

Lab Sample ID: 820-5243-52

Date Collected: 08/04/22 12:12

Matrix: Soil

Date Received: 08/05/22 14:02

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	31716	08/08/22 10:06	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31827	08/09/22 18:33	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	31683	08/08/22 08:22	DM	EET MID
Total/NA	Analysis	8015B NM		1			31676	08/08/22 16:21	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	31642	08/06/22 16:33	CH	EET MID
Soluble	Analysis	300.0		1			31939	08/10/22 17:35	AJ	EET MID

Client Sample ID: CS-53

Lab Sample ID: 820-5243-53

Date Collected: 08/04/22 12:14

Matrix: Soil

Date Received: 08/05/22 14:02

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	31716	08/08/22 10:06	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31827	08/09/22 18:54	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31683	08/08/22 08:22	DM	EET MID
Total/NA	Analysis	8015B NM		1			31676	08/08/22 16:43	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	31642	08/06/22 16:33	CH	EET MID
Soluble	Analysis	300.0		1			31939	08/10/22 17:42	AJ	EET MID

Client Sample ID: CS-54

Lab Sample ID: 820-5243-54

Date Collected: 08/04/22 12:16

Matrix: Soil

Date Received: 08/05/22 14:02

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	31716	08/08/22 10:06	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31827	08/09/22 19:14	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-54

Lab Sample ID: 820-5243-54

Date Collected: 08/04/22 12:16

Matrix: Soil

Date Received: 08/05/22 14:02

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			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31683	08/08/22 08:22	DM	EET MID
Total/NA	Analysis	8015B NM		1			31676	08/08/22 17:04	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	31642	08/06/22 16:33	CH	EET MID
Soluble	Analysis	300.0		1			31939	08/10/22 17:50	AJ	EET MID

Client Sample ID: CS-55

Lab Sample ID: 820-5243-55

Date Collected: 08/04/22 12:18

Matrix: Soil

Date Received: 08/05/22 14:02

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	31716	08/08/22 10:06	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31827	08/09/22 19:35	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	31683	08/08/22 08:22	DM	EET MID
Total/NA	Analysis	8015B NM		1			31676	08/08/22 17:26	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	31642	08/06/22 16:33	CH	EET MID
Soluble	Analysis	300.0		1			31939	08/10/22 17:58	AJ	EET MID

Client Sample ID: CS-56

Lab Sample ID: 820-5243-56

Date Collected: 08/04/22 12:20

Matrix: Soil

Date Received: 08/05/22 14:02

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	31716	08/08/22 10:06	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31827	08/09/22 19:55	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	31683	08/08/22 08:22	DM	EET MID
Total/NA	Analysis	8015B NM		1			31676	08/08/22 17:47	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	31642	08/06/22 16:33	CH	EET MID
Soluble	Analysis	300.0		1			31939	08/10/22 18:22	AJ	EET MID

Client Sample ID: CS-57

Lab Sample ID: 820-5243-57

Date Collected: 08/04/22 12:22

Matrix: Soil

Date Received: 08/05/22 14:02

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	31716	08/08/22 10:06	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31827	08/09/22 20:15	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31683	08/08/22 08:22	DM	EET MID
Total/NA	Analysis	8015B NM		1			31676	08/08/22 18:09	SM	EET MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-57

Lab Sample ID: 820-5243-57

Date Collected: 08/04/22 12:22

Matrix: Soil

Date Received: 08/05/22 14:02

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	31642	08/06/22 16:33	CH	EET MID
Soluble	Analysis	300.0		1			31939	08/10/22 18:30	AJ	EET MID

Client Sample ID: CS-58

Lab Sample ID: 820-5243-58

Date Collected: 08/04/22 12:24

Matrix: Soil

Date Received: 08/05/22 14:02

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	31716	08/08/22 10:06	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31827	08/09/22 20:36	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31683	08/08/22 08:22	DM	EET MID
Total/NA	Analysis	8015B NM		1			31676	08/08/22 18:31	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	31642	08/06/22 16:33	CH	EET MID
Soluble	Analysis	300.0		1			31939	08/10/22 18:37	AJ	EET MID

Client Sample ID: CS-59

Lab Sample ID: 820-5243-59

Date Collected: 08/04/22 12:26

Matrix: Soil

Date Received: 08/05/22 14:02

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	31716	08/08/22 10:06	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31827	08/09/22 20:56	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	31683	08/08/22 08:22	DM	EET MID
Total/NA	Analysis	8015B NM		1			31676	08/08/22 18:52	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	31642	08/06/22 16:33	CH	EET MID
Soluble	Analysis	300.0		10			31939	08/10/22 18:45	AJ	EET MID

Client Sample ID: CS-60

Lab Sample ID: 820-5243-60

Date Collected: 08/04/22 12:28

Matrix: Soil

Date Received: 08/05/22 14:02

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	31716	08/08/22 10:06	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31827	08/09/22 21:17	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	31683	08/08/22 08:22	DM	EET MID
Total/NA	Analysis	8015B NM		1			31676	08/08/22 19:13	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	31642	08/06/22 16:33	CH	EET MID
Soluble	Analysis	300.0		1			31939	08/10/22 18:53	AJ	EET MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-61

Lab Sample ID: 820-5243-61

Date Collected: 08/04/22 12:30

Matrix: Soil

Date Received: 08/05/22 14:02

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	31717	08/08/22 10:13	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31851	08/09/22 16:28	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31684	08/08/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1			31674	08/08/22 11:19	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	31642	08/06/22 16:33	CH	EET MID
Soluble	Analysis	300.0		1			31939	08/10/22 19:01	AJ	EET MID

Client Sample ID: CS-62

Lab Sample ID: 820-5243-62

Date Collected: 08/04/22 12:32

Matrix: Soil

Date Received: 08/05/22 14:02

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	31717	08/08/22 10:13	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31851	08/09/22 16:49	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	31684	08/08/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1			31674	08/08/22 12:24	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	31642	08/06/22 16:33	CH	EET MID
Soluble	Analysis	300.0		1			31939	08/10/22 19:25	AJ	EET MID

Client Sample ID: CS-63

Lab Sample ID: 820-5243-63

Date Collected: 08/04/22 12:34

Matrix: Soil

Date Received: 08/05/22 14:02

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	31717	08/08/22 10:13	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31851	08/09/22 17:09	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31684	08/08/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1			31674	08/08/22 12:45	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	31642	08/06/22 16:33	CH	EET MID
Soluble	Analysis	300.0		1			31939	08/10/22 19:33	AJ	EET MID

Client Sample ID: CS-64

Lab Sample ID: 820-5243-64

Date Collected: 08/04/22 12:36

Matrix: Soil

Date Received: 08/05/22 14:02

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	31717	08/08/22 10:13	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31851	08/09/22 17:30	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-64

Lab Sample ID: 820-5243-64

Date Collected: 08/04/22 12:36

Matrix: Soil

Date Received: 08/05/22 14:02

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			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	31684	08/08/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1			31674	08/08/22 13:07	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	31642	08/06/22 16:33	CH	EET MID
Soluble	Analysis	300.0		1			31939	08/10/22 19:56	AJ	EET MID

Client Sample ID: CS-65

Lab Sample ID: 820-5243-65

Date Collected: 08/04/22 12:38

Matrix: Soil

Date Received: 08/05/22 14:02

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	31717	08/08/22 10:13	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31851	08/09/22 17:51	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	31684	08/08/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1			31674	08/08/22 13:29	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	31642	08/06/22 16:33	CH	EET MID
Soluble	Analysis	300.0		1			31939	08/10/22 20:04	AJ	EET MID

Client Sample ID: CS-66

Lab Sample ID: 820-5243-66

Date Collected: 08/04/22 12:40

Matrix: Soil

Date Received: 08/05/22 14:02

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	31717	08/08/22 10:13	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31851	08/09/22 18:12	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31684	08/08/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1			31674	08/08/22 13:50	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	31642	08/06/22 16:33	CH	EET MID
Soluble	Analysis	300.0		1			31939	08/10/22 20:12	AJ	EET MID

Client Sample ID: CS-67

Lab Sample ID: 820-5243-67

Date Collected: 08/04/22 12:42

Matrix: Soil

Date Received: 08/05/22 14:02

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	31717	08/08/22 10:13	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31851	08/09/22 18:32	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31684	08/08/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1			31674	08/08/22 14:12	SM	EET MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-67

Lab Sample ID: 820-5243-67

Date Collected: 08/04/22 12:42

Matrix: Soil

Date Received: 08/05/22 14:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	31642	08/06/22 16:33	CH	EET MID
Soluble	Analysis	300.0		1			31939	08/10/22 20:20	AJ	EET MID

Client Sample ID: CS-68

Lab Sample ID: 820-5243-68

Date Collected: 08/04/22 12:44

Matrix: Soil

Date Received: 08/05/22 14:02

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	31717	08/08/22 10:13	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31851	08/09/22 18:53	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31684	08/08/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1			31674	08/08/22 14:34	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	31642	08/06/22 16:33	CH	EET MID
Soluble	Analysis	300.0		1			31939	08/10/22 20:28	AJ	EET MID

Client Sample ID: CS-69

Lab Sample ID: 820-5243-69

Date Collected: 08/04/22 12:46

Matrix: Soil

Date Received: 08/05/22 14:02

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	31717	08/08/22 10:13	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31851	08/09/22 19:14	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31684	08/08/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1			31674	08/08/22 14:55	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	31642	08/06/22 16:33	CH	EET MID
Soluble	Analysis	300.0		1			31939	08/10/22 20:35	AJ	EET MID

Client Sample ID: CS-70

Lab Sample ID: 820-5243-70

Date Collected: 08/04/22 12:48

Matrix: Soil

Date Received: 08/05/22 14:02

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	31717	08/08/22 10:13	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31851	08/09/22 19:34	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31684	08/08/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1			31674	08/08/22 15:16	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	31642	08/06/22 16:33	CH	EET MID
Soluble	Analysis	300.0		1			31939	08/10/22 20:43	AJ	EET MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-71

Lab Sample ID: 820-5243-71

Date Collected: 08/04/22 12:50

Matrix: Soil

Date Received: 08/05/22 14:02

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	31717	08/08/22 10:13	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31851	08/09/22 20:59	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	31684	08/08/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1			31674	08/08/22 16:00	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	31643	08/06/22 16:36	CH	EET MID
Soluble	Analysis	300.0		1			31909	08/10/22 07:45	CH	EET MID

Client Sample ID: CS-72

Lab Sample ID: 820-5243-72

Date Collected: 08/04/22 12:52

Matrix: Soil

Date Received: 08/05/22 14:02

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	31717	08/08/22 10:13	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31851	08/09/22 21:20	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	31684	08/08/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1			31674	08/08/22 16:21	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	31643	08/06/22 16:36	CH	EET MID
Soluble	Analysis	300.0		1			31909	08/10/22 08:09	CH	EET MID

Client Sample ID: CS-73

Lab Sample ID: 820-5243-73

Date Collected: 08/04/22 12:54

Matrix: Soil

Date Received: 08/05/22 14:02

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	31717	08/08/22 10:13	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31851	08/09/22 21:41	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31684	08/08/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1			31674	08/08/22 16:43	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	31643	08/06/22 16:36	CH	EET MID
Soluble	Analysis	300.0		1			31909	08/10/22 08:17	CH	EET MID

Client Sample ID: CS-74

Lab Sample ID: 820-5243-74

Date Collected: 08/04/22 12:56

Matrix: Soil

Date Received: 08/05/22 14:02

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	31717	08/08/22 10:13	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31851	08/09/22 22:01	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-74

Lab Sample ID: 820-5243-74

Date Collected: 08/04/22 12:56

Matrix: Soil

Date Received: 08/05/22 14:02

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			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31684	08/08/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1			31674	08/08/22 17:04	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	31643	08/06/22 16:36	CH	EET MID
Soluble	Analysis	300.0		1			31909	08/10/22 08:24	CH	EET MID

Client Sample ID: CS-75

Lab Sample ID: 820-5243-75

Date Collected: 08/04/22 12:58

Matrix: Soil

Date Received: 08/05/22 14:02

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	31717	08/08/22 10:13	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31851	08/09/22 22:22	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31684	08/08/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1			31674	08/08/22 17:26	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	31643	08/06/22 16:36	CH	EET MID
Soluble	Analysis	300.0		1			31909	08/10/22 08:32	CH	EET MID

Client Sample ID: CS-76

Lab Sample ID: 820-5243-76

Date Collected: 08/04/22 13:00

Matrix: Soil

Date Received: 08/05/22 14:02

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	31717	08/08/22 10:13	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31851	08/09/22 22:43	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	31684	08/08/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1			31674	08/08/22 17:47	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	31643	08/06/22 16:36	CH	EET MID
Soluble	Analysis	300.0		1			31909	08/10/22 08:56	CH	EET MID

Client Sample ID: CS-77

Lab Sample ID: 820-5243-77

Date Collected: 08/04/22 13:02

Matrix: Soil

Date Received: 08/05/22 14:02

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	31717	08/08/22 10:13	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31851	08/09/22 23:04	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	31684	08/08/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1			31674	08/08/22 18:09	SM	EET MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-77

Lab Sample ID: 820-5243-77

Date Collected: 08/04/22 13:02

Matrix: Soil

Date Received: 08/05/22 14:02

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	31643	08/06/22 16:36	CH	EET MID
Soluble	Analysis	300.0		1			31909	08/10/22 09:04	CH	EET MID

Client Sample ID: CS-78

Lab Sample ID: 820-5243-78

Date Collected: 08/04/22 13:04

Matrix: Soil

Date Received: 08/05/22 14:02

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	31717	08/08/22 10:13	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31851	08/09/22 23:24	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31684	08/08/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1			31674	08/08/22 18:31	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	31643	08/06/22 16:36	CH	EET MID
Soluble	Analysis	300.0		1			31909	08/10/22 09:12	CH	EET MID

Client Sample ID: CS-79

Lab Sample ID: 820-5243-79

Date Collected: 08/04/22 13:06

Matrix: Soil

Date Received: 08/05/22 14:02

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	31717	08/08/22 10:13	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31851	08/09/22 23:45	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	31684	08/08/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1			31674	08/08/22 18:52	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	31643	08/06/22 16:36	CH	EET MID
Soluble	Analysis	300.0		5			31909	08/10/22 09:19	CH	EET MID

Client Sample ID: CS-80

Lab Sample ID: 820-5243-80

Date Collected: 08/04/22 13:08

Matrix: Soil

Date Received: 08/05/22 14:02

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	31717	08/08/22 10:13	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31851	08/10/22 00:06	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	31684	08/08/22 08:23	DM	EET MID
Total/NA	Analysis	8015B NM		1			31674	08/08/22 19:13	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	31643	08/06/22 16:36	CH	EET MID
Soluble	Analysis	300.0		1			31909	08/10/22 09:27	CH	EET MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-81

Lab Sample ID: 820-5243-81

Date Collected: 08/04/22 13:10

Matrix: Soil

Date Received: 08/05/22 14:02

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	31728	08/08/22 10:28	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31835	08/09/22 23:57	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31765	08/08/22 12:56	DM	EET MID
Total/NA	Analysis	8015B NM		1			31676	08/08/22 21:00	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	31643	08/06/22 16:36	CH	EET MID
Soluble	Analysis	300.0		10			31909	08/10/22 09:35	CH	EET MID

Client Sample ID: CS-82

Lab Sample ID: 820-5243-82

Date Collected: 08/04/22 13:12

Matrix: Soil

Date Received: 08/05/22 14:02

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	31728	08/08/22 10:28	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31835	08/10/22 00:18	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	31765	08/08/22 12:56	DM	EET MID
Total/NA	Analysis	8015B NM		1			31676	08/08/22 22:04	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	31643	08/06/22 16:36	CH	EET MID
Soluble	Analysis	300.0		1			31909	08/10/22 09:59	CH	EET MID

Client Sample ID: CS-83

Lab Sample ID: 820-5243-83

Date Collected: 08/04/22 13:14

Matrix: Soil

Date Received: 08/05/22 14:02

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	31728	08/08/22 10:28	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31835	08/10/22 00:38	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31765	08/08/22 12:56	DM	EET MID
Total/NA	Analysis	8015B NM		1			31676	08/08/22 22:26	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	31643	08/06/22 16:36	CH	EET MID
Soluble	Analysis	300.0		1			31909	08/10/22 10:07	CH	EET MID

Client Sample ID: CS-84

Lab Sample ID: 820-5243-84

Date Collected: 08/04/22 13:16

Matrix: Soil

Date Received: 08/05/22 14:02

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	31728	08/08/22 10:28	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31835	08/10/22 00:59	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-84

Lab Sample ID: 820-5243-84

Date Collected: 08/04/22 13:16

Matrix: Soil

Date Received: 08/05/22 14:02

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			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	31765	08/08/22 12:56	DM	EET MID
Total/NA	Analysis	8015B NM		1			31676	08/08/22 22:47	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	31643	08/06/22 16:36	CH	EET MID
Soluble	Analysis	300.0		1			31909	08/10/22 10:30	CH	EET MID

Client Sample ID: CS-85

Lab Sample ID: 820-5243-85

Date Collected: 08/04/22 13:18

Matrix: Soil

Date Received: 08/05/22 14:02

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	31728	08/08/22 10:28	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31835	08/10/22 01:19	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	31765	08/08/22 12:56	DM	EET MID
Total/NA	Analysis	8015B NM		1			31676	08/08/22 23:08	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	31643	08/06/22 16:36	CH	EET MID
Soluble	Analysis	300.0		1			31909	08/10/22 10:38	CH	EET MID

Client Sample ID: CS-86

Lab Sample ID: 820-5243-86

Date Collected: 08/04/22 13:20

Matrix: Soil

Date Received: 08/05/22 14:02

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	31728	08/08/22 10:28	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31835	08/10/22 01:40	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31765	08/08/22 12:56	DM	EET MID
Total/NA	Analysis	8015B NM		1			31676	08/08/22 23:29	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	31643	08/06/22 16:36	CH	EET MID
Soluble	Analysis	300.0		1			31909	08/10/22 10:46	CH	EET MID

Client Sample ID: CS-87

Lab Sample ID: 820-5243-87

Date Collected: 08/04/22 13:22

Matrix: Soil

Date Received: 08/05/22 14:02

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	31728	08/08/22 10:28	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31835	08/10/22 02:00	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31765	08/08/22 12:56	DM	EET MID
Total/NA	Analysis	8015B NM		1			31676	08/08/22 23:50	SM	EET MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-87

Lab Sample ID: 820-5243-87

Date Collected: 08/04/22 13:22

Matrix: Soil

Date Received: 08/05/22 14:02

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	31643	08/06/22 16:36	CH	EET MID
Soluble	Analysis	300.0		1			31909	08/10/22 10:54	CH	EET MID

Client Sample ID: CS-88

Lab Sample ID: 820-5243-88

Date Collected: 08/04/22 13:24

Matrix: Soil

Date Received: 08/05/22 14:02

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	31728	08/08/22 10:28	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31835	08/10/22 02:21	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31765	08/08/22 12:56	DM	EET MID
Total/NA	Analysis	8015B NM		1			31676	08/09/22 00:10	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	31643	08/06/22 16:36	CH	EET MID
Soluble	Analysis	300.0		5			31909	08/10/22 11:01	CH	EET MID

Client Sample ID: CS-89

Lab Sample ID: 820-5243-89

Date Collected: 08/04/22 13:26

Matrix: Soil

Date Received: 08/05/22 14:02

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	31728	08/08/22 10:28	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31835	08/10/22 02:41	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31765	08/08/22 12:56	DM	EET MID
Total/NA	Analysis	8015B NM		1			31676	08/09/22 00:30	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	31643	08/06/22 16:36	CH	EET MID
Soluble	Analysis	300.0		1			31909	08/10/22 21:07	CH	EET MID

Client Sample ID: CS-90

Lab Sample ID: 820-5243-90

Date Collected: 08/04/22 13:28

Matrix: Soil

Date Received: 08/05/22 14:02

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	31728	08/08/22 10:28	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31835	08/10/22 03:02	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31765	08/08/22 12:56	DM	EET MID
Total/NA	Analysis	8015B NM		1			31676	08/09/22 00:51	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	31643	08/06/22 16:36	CH	EET MID
Soluble	Analysis	300.0		1			31909	08/10/22 21:15	CH	EET MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-91

Lab Sample ID: 820-5243-91

Date Collected: 08/04/22 13:30

Matrix: Soil

Date Received: 08/05/22 14:02

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	31728	08/08/22 10:28	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31835	08/10/22 04:25	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	31765	08/08/22 12:56	DM	EET MID
Total/NA	Analysis	8015B NM		1			31676	08/09/22 01:31	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	31644	08/06/22 16:42	CH	EET MID
Soluble	Analysis	300.0		1			31910	08/10/22 12:04	CH	EET MID

Client Sample ID: CS-92

Lab Sample ID: 820-5243-92

Date Collected: 08/04/22 13:32

Matrix: Soil

Date Received: 08/05/22 14:02

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	31728	08/08/22 10:28	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31835	08/10/22 04:46	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	31765	08/08/22 12:56	DM	EET MID
Total/NA	Analysis	8015B NM		1			31676	08/09/22 01:51	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	31644	08/06/22 16:42	CH	EET MID
Soluble	Analysis	300.0		1			31910	08/10/22 12:28	CH	EET MID

Client Sample ID: CS-93

Lab Sample ID: 820-5243-93

Date Collected: 08/04/22 13:34

Matrix: Soil

Date Received: 08/05/22 14:02

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	31728	08/08/22 10:28	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31835	08/10/22 05:06	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31765	08/08/22 12:56	DM	EET MID
Total/NA	Analysis	8015B NM		1			31676	08/09/22 02:11	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	31644	08/06/22 16:42	CH	EET MID
Soluble	Analysis	300.0		1			31910	08/10/22 12:36	CH	EET MID

Client Sample ID: CS-94

Lab Sample ID: 820-5243-94

Date Collected: 08/04/22 13:36

Matrix: Soil

Date Received: 08/05/22 14:02

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	31728	08/08/22 10:28	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31835	08/10/22 05:27	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-94

Lab Sample ID: 820-5243-94

Date Collected: 08/04/22 13:36

Matrix: Soil

Date Received: 08/05/22 14:02

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			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31765	08/08/22 12:56	DM	EET MID
Total/NA	Analysis	8015B NM		1			31676	08/09/22 02:31	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	31644	08/06/22 16:42	CH	EET MID
Soluble	Analysis	300.0		1			31910	08/10/22 12:44	CH	EET MID

Client Sample ID: CS-95

Lab Sample ID: 820-5243-95

Date Collected: 08/04/22 13:38

Matrix: Soil

Date Received: 08/05/22 14:02

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	31728	08/08/22 10:28	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31835	08/10/22 05:47	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31765	08/08/22 12:56	DM	EET MID
Total/NA	Analysis	8015B NM		1			31676	08/09/22 02:51	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	31644	08/06/22 16:42	CH	EET MID
Soluble	Analysis	300.0		1			31910	08/10/22 12:52	CH	EET MID

Client Sample ID: CS-96

Lab Sample ID: 820-5243-96

Date Collected: 08/04/22 13:40

Matrix: Soil

Date Received: 08/05/22 14:02

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	31728	08/08/22 10:28	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31835	08/10/22 06:08	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	31765	08/08/22 12:56	DM	EET MID
Total/NA	Analysis	8015B NM		1			31676	08/09/22 03:11	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	31644	08/06/22 16:42	CH	EET MID
Soluble	Analysis	300.0		1			31910	08/10/22 13:15	CH	EET MID

Client Sample ID: CS-97

Lab Sample ID: 820-5243-97

Date Collected: 08/04/22 13:42

Matrix: Soil

Date Received: 08/05/22 14:02

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	31728	08/08/22 10:28	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31835	08/10/22 06:28	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	31765	08/08/22 12:56	DM	EET MID
Total/NA	Analysis	8015B NM		1			31676	08/09/22 03:31	SM	EET MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-97

Lab Sample ID: 820-5243-97

Date Collected: 08/04/22 13:42

Matrix: Soil

Date Received: 08/05/22 14:02

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	31644	08/06/22 16:42	CH	EET MID
Soluble	Analysis	300.0		1			31910	08/10/22 13:23	CH	EET MID

Client Sample ID: CS-98

Lab Sample ID: 820-5243-98

Date Collected: 08/04/22 13:44

Matrix: Soil

Date Received: 08/05/22 14:02

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	31728	08/08/22 10:28	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31835	08/10/22 06:49	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31765	08/08/22 12:56	DM	EET MID
Total/NA	Analysis	8015B NM		1			31676	08/09/22 03:51	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	31644	08/06/22 16:42	CH	EET MID
Soluble	Analysis	300.0		1			31910	08/10/22 13:31	CH	EET MID

Client Sample ID: CS-99

Lab Sample ID: 820-5243-99

Date Collected: 08/04/22 13:46

Matrix: Soil

Date Received: 08/05/22 14:02

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	31728	08/08/22 10:28	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31835	08/10/22 07:09	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	31765	08/08/22 12:56	DM	EET MID
Total/NA	Analysis	8015B NM		1			31676	08/09/22 04:11	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	31644	08/06/22 16:42	CH	EET MID
Soluble	Analysis	300.0		1			31910	08/10/22 13:39	CH	EET MID

Client Sample ID: CS-100

Lab Sample ID: 820-5243-100

Date Collected: 08/04/22 13:48

Matrix: Soil

Date Received: 08/05/22 14:02

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	31728	08/08/22 10:28	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31835	08/10/22 07:30	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	31765	08/08/22 12:56	DM	EET MID
Total/NA	Analysis	8015B NM		1			31676	08/09/22 04:32	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	31644	08/06/22 16:42	CH	EET MID
Soluble	Analysis	300.0		1			31910	08/10/22 13:47	CH	EET MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-101

Lab Sample ID: 820-5243-101

Date Collected: 08/04/22 13:50

Matrix: Soil

Date Received: 08/05/22 14:02

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	31729	08/08/22 10:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31827	08/10/22 00:56	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31766	08/08/22 12:59	DM	EET MID
Total/NA	Analysis	8015B NM		1			31674	08/08/22 21:00	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	31644	08/06/22 16:42	CH	EET MID
Soluble	Analysis	300.0		1			31910	08/10/22 13:54	CH	EET MID

Client Sample ID: CS-102

Lab Sample ID: 820-5243-102

Date Collected: 08/04/22 13:52

Matrix: Soil

Date Received: 08/05/22 14:02

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	31729	08/08/22 10:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31827	08/10/22 01:16	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	31766	08/08/22 12:59	DM	EET MID
Total/NA	Analysis	8015B NM		1			31674	08/08/22 22:04	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	31644	08/06/22 16:42	CH	EET MID
Soluble	Analysis	300.0		1			31910	08/10/22 14:18	CH	EET MID

Client Sample ID: CS-103

Lab Sample ID: 820-5243-103

Date Collected: 08/04/22 13:54

Matrix: Soil

Date Received: 08/05/22 14:02

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	31729	08/08/22 10:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31827	08/10/22 01:37	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31766	08/08/22 12:59	DM	EET MID
Total/NA	Analysis	8015B NM		1			31674	08/08/22 22:26	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	31644	08/06/22 16:42	CH	EET MID
Soluble	Analysis	300.0		1			31910	08/10/22 14:26	CH	EET MID

Client Sample ID: CS-104

Lab Sample ID: 820-5243-104

Date Collected: 08/04/22 13:56

Matrix: Soil

Date Received: 08/05/22 14:02

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	31729	08/08/22 10:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31827	08/10/22 01:57	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-104

Lab Sample ID: 820-5243-104

Date Collected: 08/04/22 13:56

Matrix: Soil

Date Received: 08/05/22 14:02

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			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	31766	08/08/22 12:59	DM	EET MID
Total/NA	Analysis	8015B NM		1			31674	08/08/22 22:47	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	31644	08/06/22 16:42	CH	EET MID
Soluble	Analysis	300.0		1			31910	08/10/22 15:21	CH	EET MID

Client Sample ID: CS-105

Lab Sample ID: 820-5243-105

Date Collected: 08/04/22 13:58

Matrix: Soil

Date Received: 08/05/22 14:02

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	31729	08/08/22 10:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31827	08/10/22 02:18	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	31766	08/08/22 12:59	DM	EET MID
Total/NA	Analysis	8015B NM		1			31674	08/08/22 23:08	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	31644	08/06/22 16:42	CH	EET MID
Soluble	Analysis	300.0		1			31910	08/10/22 15:29	CH	EET MID

Client Sample ID: CS-106

Lab Sample ID: 820-5243-106

Date Collected: 08/04/22 14:00

Matrix: Soil

Date Received: 08/05/22 14:02

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	31729	08/08/22 10:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31827	08/10/22 02:38	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31766	08/08/22 12:59	DM	EET MID
Total/NA	Analysis	8015B NM		1			31674	08/08/22 23:29	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	31644	08/06/22 16:42	CH	EET MID
Soluble	Analysis	300.0		1			31910	08/10/22 15:37	CH	EET MID

Client Sample ID: CS-107

Lab Sample ID: 820-5243-107

Date Collected: 08/04/22 14:02

Matrix: Soil

Date Received: 08/05/22 14:02

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	31729	08/08/22 10:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31827	08/10/22 02:59	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31766	08/08/22 12:59	DM	EET MID
Total/NA	Analysis	8015B NM		1			31674	08/08/22 23:50	SM	EET MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-107

Lab Sample ID: 820-5243-107

Date Collected: 08/04/22 14:02

Matrix: Soil

Date Received: 08/05/22 14:02

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	31644	08/06/22 16:42	CH	EET MID
Soluble	Analysis	300.0		1			31910	08/10/22 15:45	CH	EET MID

Client Sample ID: CS-108

Lab Sample ID: 820-5243-108

Date Collected: 08/04/22 14:04

Matrix: Soil

Date Received: 08/05/22 14:02

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	31729	08/08/22 10:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31827	08/10/22 03:19	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31766	08/08/22 12:59	DM	EET MID
Total/NA	Analysis	8015B NM		1			31674	08/09/22 00:10	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	31644	08/06/22 16:42	CH	EET MID
Soluble	Analysis	300.0		5			31910	08/10/22 15:53	CH	EET MID

Client Sample ID: CS-109

Lab Sample ID: 820-5243-109

Date Collected: 08/04/22 14:06

Matrix: Soil

Date Received: 08/05/22 14:02

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	31729	08/08/22 10:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31827	08/10/22 03:40	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31766	08/08/22 12:59	DM	EET MID
Total/NA	Analysis	8015B NM		1			31674	08/09/22 00:30	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	31644	08/06/22 16:42	CH	EET MID
Soluble	Analysis	300.0		1			31910	08/10/22 16:00	CH	EET MID

Client Sample ID: CS-110

Lab Sample ID: 820-5243-110

Date Collected: 08/04/22 14:08

Matrix: Soil

Date Received: 08/05/22 14:02

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	31729	08/08/22 10:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31827	08/10/22 04:00	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31766	08/08/22 12:59	DM	EET MID
Total/NA	Analysis	8015B NM		1			31674	08/09/22 00:51	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	31644	08/06/22 16:42	CH	EET MID
Soluble	Analysis	300.0		1			31910	08/10/22 16:08	CH	EET MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-111

Lab Sample ID: 820-5243-111

Date Collected: 08/04/22 14:10

Matrix: Soil

Date Received: 08/05/22 14:02

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	31729	08/08/22 10:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31827	08/10/22 05:50	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31766	08/08/22 12:59	DM	EET MID
Total/NA	Analysis	8015B NM		1			31674	08/09/22 01:31	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	31645	08/06/22 16:49	CH	EET MID
Soluble	Analysis	300.0		1			31905	08/10/22 14:53	CH	EET MID

Client Sample ID: CS-112

Lab Sample ID: 820-5243-112

Date Collected: 08/04/22 14:12

Matrix: Soil

Date Received: 08/05/22 14:02

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	31729	08/08/22 10:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31827	08/10/22 06:11	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	31766	08/08/22 12:59	DM	EET MID
Total/NA	Analysis	8015B NM		1			31674	08/09/22 01:51	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	31645	08/06/22 16:49	CH	EET MID
Soluble	Analysis	300.0		1			31905	08/10/22 15:21	CH	EET MID

Client Sample ID: CS-113

Lab Sample ID: 820-5243-113

Date Collected: 08/04/22 14:14

Matrix: Soil

Date Received: 08/05/22 14:02

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	31729	08/08/22 10:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31827	08/10/22 06:31	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	31766	08/08/22 12:59	DM	EET MID
Total/NA	Analysis	8015B NM		1			31674	08/09/22 02:11	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	31645	08/06/22 16:49	CH	EET MID
Soluble	Analysis	300.0		1			31905	08/10/22 15:30	CH	EET MID

Client Sample ID: CS-114

Lab Sample ID: 820-5243-114

Date Collected: 08/04/22 14:16

Matrix: Soil

Date Received: 08/05/22 14:02

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	31729	08/08/22 10:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31827	08/10/22 06:52	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-114

Lab Sample ID: 820-5243-114

Date Collected: 08/04/22 14:16

Matrix: Soil

Date Received: 08/05/22 14:02

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			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	31766	08/08/22 12:59	DM	EET MID
Total/NA	Analysis	8015B NM		1			31674	08/09/22 02:31	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	31645	08/06/22 16:49	CH	EET MID
Soluble	Analysis	300.0		1			31905	08/10/22 15:39	CH	EET MID

Client Sample ID: CS-115

Lab Sample ID: 820-5243-115

Date Collected: 08/04/22 14:18

Matrix: Soil

Date Received: 08/05/22 14:02

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	31729	08/08/22 10:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31827	08/10/22 07:12	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31766	08/08/22 12:59	DM	EET MID
Total/NA	Analysis	8015B NM		1			31674	08/09/22 02:51	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	31645	08/06/22 16:49	CH	EET MID
Soluble	Analysis	300.0		1			31905	08/10/22 15:48	CH	EET MID

Client Sample ID: CS-116

Lab Sample ID: 820-5243-116

Date Collected: 08/04/22 14:20

Matrix: Soil

Date Received: 08/05/22 14:02

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	31729	08/08/22 10:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31827	08/10/22 07:33	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	31766	08/08/22 12:59	DM	EET MID
Total/NA	Analysis	8015B NM		1			31674	08/09/22 03:11	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	31645	08/06/22 16:49	CH	EET MID
Soluble	Analysis	300.0		1			31905	08/10/22 16:16	CH	EET MID

Client Sample ID: CS-117

Lab Sample ID: 820-5243-117

Date Collected: 08/04/22 14:22

Matrix: Soil

Date Received: 08/05/22 14:02

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	31729	08/08/22 10:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31827	08/10/22 07:53	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	31766	08/08/22 12:59	DM	EET MID
Total/NA	Analysis	8015B NM		1			31674	08/09/22 03:31	SM	EET MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-117

Lab Sample ID: 820-5243-117

Date Collected: 08/04/22 14:22

Matrix: Soil

Date Received: 08/05/22 14:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	31645	08/06/22 16:49	CH	EET MID
Soluble	Analysis	300.0		1			31905	08/10/22 16:25	CH	EET MID

Client Sample ID: CS-118

Lab Sample ID: 820-5243-118

Date Collected: 08/04/22 14:24

Matrix: Soil

Date Received: 08/05/22 14:02

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	31729	08/08/22 10:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31827	08/10/22 08:46	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31766	08/08/22 12:59	DM	EET MID
Total/NA	Analysis	8015B NM		1			31674	08/09/22 03:51	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	31645	08/06/22 16:49	CH	EET MID
Soluble	Analysis	300.0		1			31905	08/10/22 16:34	CH	EET MID

Client Sample ID: CS-119

Lab Sample ID: 820-5243-119

Date Collected: 08/04/22 14:26

Matrix: Soil

Date Received: 08/05/22 14:02

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	31729	08/08/22 10:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31827	08/10/22 09:07	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	31766	08/08/22 12:59	DM	EET MID
Total/NA	Analysis	8015B NM		1			31674	08/09/22 04:11	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	31645	08/06/22 16:49	CH	EET MID
Soluble	Analysis	300.0		10			31905	08/10/22 16:43	CH	EET MID

Client Sample ID: CS-120

Lab Sample ID: 820-5243-120

Date Collected: 08/04/22 14:28

Matrix: Soil

Date Received: 08/05/22 14:02

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	31729	08/08/22 10:35	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31827	08/10/22 09:27	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	31766	08/08/22 12:59	DM	EET MID
Total/NA	Analysis	8015B NM		1			31674	08/09/22 04:32	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	31645	08/06/22 16:49	CH	EET MID
Soluble	Analysis	300.0		5			31905	08/10/22 16:53	CH	EET MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Client Sample ID: CS-121

Lab Sample ID: 820-5243-121

Date Collected: 08/04/22 14:30

Matrix: Soil

Date Received: 08/05/22 14:02

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	31731	08/08/22 10:46	EL	EET MID
Total/NA	Analysis	8021B		1			31678	08/09/22 01:37	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	31770	08/08/22 14:08	DM	EET MID
Total/NA	Analysis	8015B NM		1			31670	08/09/22 02:10	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	31645	08/06/22 16:49	CH	EET MID
Soluble	Analysis	300.0		20			31905	08/10/22 17:02	CH	EET MID

Client Sample ID: CS-122

Lab Sample ID: 820-5243-122

Date Collected: 08/04/22 14:32

Matrix: Soil

Date Received: 08/05/22 14:02

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	31731	08/08/22 10:46	EL	EET MID
Total/NA	Analysis	8021B		1			31678	08/09/22 02:03	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	31770	08/08/22 14:08	DM	EET MID
Total/NA	Analysis	8015B NM		1			31670	08/09/22 02:31	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	31645	08/06/22 16:49	CH	EET MID
Soluble	Analysis	300.0		5			31905	08/10/22 17:29	CH	EET MID

Client Sample ID: SP-F

Lab Sample ID: 820-5243-123

Date Collected: 08/04/22 14:34

Matrix: Soil

Date Received: 08/05/22 14:02

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	31731	08/08/22 10:46	EL	EET MID
Total/NA	Analysis	8021B		1			31678	08/09/22 02:28	MR	EET MID
Total/NA	Analysis	Total BTEX		1			31847	08/09/22 10:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			31836	08/09/22 09:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	31770	08/08/22 14:08	DM	EET MID
Total/NA	Analysis	8015B NM		1			31670	08/09/22 02:52	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	31645	08/06/22 16:49	CH	EET MID
Soluble	Analysis	300.0		1			31905	08/10/22 17:39	CH	EET MID

Laboratory References:

EET 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: Libbey

Job ID: 820-5243-1
SDG: AR217165

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	T104704400-22-24	06-30-23

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

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET 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:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
820-5243-1	CS-1	Soil	08/04/22 10:30	08/05/22 14:02
820-5243-2	CS-2	Soil	08/04/22 10:32	08/05/22 14:02
820-5243-3	CS-3	Soil	08/04/22 10:34	08/05/22 14:02
820-5243-4	CS-4	Soil	08/04/22 10:36	08/05/22 14:02
820-5243-5	CS-5	Soil	08/04/22 10:38	08/05/22 14:02
820-5243-6	CS-6	Soil	08/04/22 10:40	08/05/22 14:02
820-5243-7	CS-7	Soil	08/04/22 10:42	08/05/22 14:02
820-5243-8	CS-8	Soil	08/04/22 10:44	08/05/22 14:02
820-5243-9	CS-9	Soil	08/04/22 10:46	08/05/22 14:02
820-5243-10	CS-10	Soil	08/04/22 10:48	08/05/22 14:02
820-5243-11	CS-11	Soil	08/04/22 10:50	08/05/22 14:02
820-5243-12	CS-12	Soil	08/04/22 10:52	08/05/22 14:02
820-5243-13	CS-13	Soil	08/04/22 10:54	08/05/22 14:02
820-5243-14	CS-14	Soil	08/04/22 10:56	08/05/22 14:02
820-5243-15	CS-15	Soil	08/04/22 10:58	08/05/22 14:02
820-5243-16	CS-16	Soil	08/04/22 11:00	08/05/22 14:02
820-5243-17	CS-17	Soil	08/04/22 11:02	08/05/22 14:02
820-5243-18	CS-18	Soil	08/04/22 11:04	08/05/22 14:02
820-5243-19	CS-19	Soil	08/04/22 11:06	08/05/22 14:02
820-5243-20	CS-20	Soil	08/04/22 11:08	08/05/22 14:02
820-5243-21	CS-21	Soil	08/04/22 11:10	08/05/22 14:02
820-5243-22	CS-22	Soil	08/04/22 11:12	08/05/22 14:02
820-5243-23	CS-23	Soil	08/04/22 11:14	08/05/22 14:02
820-5243-24	CS-24	Soil	08/04/22 11:16	08/05/22 14:02
820-5243-25	CS-25	Soil	08/04/22 11:18	08/05/22 14:02
820-5243-26	CS-26	Soil	08/04/22 11:20	08/05/22 14:02
820-5243-27	CS-27	Soil	08/04/22 11:22	08/05/22 14:02
820-5243-28	CS-28	Soil	08/04/22 11:24	08/05/22 14:02
820-5243-29	CS-29	Soil	08/04/22 11:26	08/05/22 14:02
820-5243-30	CS-30	Soil	08/04/22 11:28	08/05/22 14:02
820-5243-31	CS-31	Soil	08/04/22 11:30	08/05/22 14:02
820-5243-32	CS-32	Soil	08/04/22 11:32	08/05/22 14:02
820-5243-33	CS-33	Soil	08/04/22 11:34	08/05/22 14:02
820-5243-34	CS-34	Soil	08/04/22 11:36	08/05/22 14:02
820-5243-35	CS-35	Soil	08/04/22 11:38	08/05/22 14:02
820-5243-36	CS-36	Soil	08/04/22 11:40	08/05/22 14:02
820-5243-37	CS-37	Soil	08/04/22 11:42	08/05/22 14:02
820-5243-38	CS-38	Soil	08/04/22 11:44	08/05/22 14:02
820-5243-39	CS-39	Soil	08/04/22 11:46	08/05/22 14:02
820-5243-40	CS-40	Soil	08/04/22 11:48	08/05/22 14:02
820-5243-41	CS-41	Soil	08/04/22 11:50	08/05/22 14:02
820-5243-42	CS-42	Soil	08/04/22 11:52	08/05/22 14:02
820-5243-43	CS-43	Soil	08/04/22 11:54	08/05/22 14:02
820-5243-44	CS-44	Soil	08/04/22 11:56	08/05/22 14:02
820-5243-45	CS-45	Soil	08/04/22 11:58	08/05/22 14:02
820-5243-46	CS-46	Soil	08/04/22 12:00	08/05/22 14:02
820-5243-47	CS-47	Soil	08/04/22 12:02	08/05/22 14:02
820-5243-48	CS-48	Soil	08/04/22 12:04	08/05/22 14:02
820-5243-49	CS-49	Soil	08/04/22 12:06	08/05/22 14:02
820-5243-50	CS-50	Soil	08/04/22 12:08	08/05/22 14:02
820-5243-51	CS-51	Soil	08/04/22 12:10	08/05/22 14:02
820-5243-52	CS-52	Soil	08/04/22 12:12	08/05/22 14:02
820-5243-53	CS-53	Soil	08/04/22 12:14	08/05/22 14:02
820-5243-54	CS-54	Soil	08/04/22 12:16	08/05/22 14:02

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
820-5243-55	CS-55	Soil	08/04/22 12:18	08/05/22 14:02
820-5243-56	CS-56	Soil	08/04/22 12:20	08/05/22 14:02
820-5243-57	CS-57	Soil	08/04/22 12:22	08/05/22 14:02
820-5243-58	CS-58	Soil	08/04/22 12:24	08/05/22 14:02
820-5243-59	CS-59	Soil	08/04/22 12:26	08/05/22 14:02
820-5243-60	CS-60	Soil	08/04/22 12:28	08/05/22 14:02
820-5243-61	CS-61	Soil	08/04/22 12:30	08/05/22 14:02
820-5243-62	CS-62	Soil	08/04/22 12:32	08/05/22 14:02
820-5243-63	CS-63	Soil	08/04/22 12:34	08/05/22 14:02
820-5243-64	CS-64	Soil	08/04/22 12:36	08/05/22 14:02
820-5243-65	CS-65	Soil	08/04/22 12:38	08/05/22 14:02
820-5243-66	CS-66	Soil	08/04/22 12:40	08/05/22 14:02
820-5243-67	CS-67	Soil	08/04/22 12:42	08/05/22 14:02
820-5243-68	CS-68	Soil	08/04/22 12:44	08/05/22 14:02
820-5243-69	CS-69	Soil	08/04/22 12:46	08/05/22 14:02
820-5243-70	CS-70	Soil	08/04/22 12:48	08/05/22 14:02
820-5243-71	CS-71	Soil	08/04/22 12:50	08/05/22 14:02
820-5243-72	CS-72	Soil	08/04/22 12:52	08/05/22 14:02
820-5243-73	CS-73	Soil	08/04/22 12:54	08/05/22 14:02
820-5243-74	CS-74	Soil	08/04/22 12:56	08/05/22 14:02
820-5243-75	CS-75	Soil	08/04/22 12:58	08/05/22 14:02
820-5243-76	CS-76	Soil	08/04/22 13:00	08/05/22 14:02
820-5243-77	CS-77	Soil	08/04/22 13:02	08/05/22 14:02
820-5243-78	CS-78	Soil	08/04/22 13:04	08/05/22 14:02
820-5243-79	CS-79	Soil	08/04/22 13:06	08/05/22 14:02
820-5243-80	CS-80	Soil	08/04/22 13:08	08/05/22 14:02
820-5243-81	CS-81	Soil	08/04/22 13:10	08/05/22 14:02
820-5243-82	CS-82	Soil	08/04/22 13:12	08/05/22 14:02
820-5243-83	CS-83	Soil	08/04/22 13:14	08/05/22 14:02
820-5243-84	CS-84	Soil	08/04/22 13:16	08/05/22 14:02
820-5243-85	CS-85	Soil	08/04/22 13:18	08/05/22 14:02
820-5243-86	CS-86	Soil	08/04/22 13:20	08/05/22 14:02
820-5243-87	CS-87	Soil	08/04/22 13:22	08/05/22 14:02
820-5243-88	CS-88	Soil	08/04/22 13:24	08/05/22 14:02
820-5243-89	CS-89	Soil	08/04/22 13:26	08/05/22 14:02
820-5243-90	CS-90	Soil	08/04/22 13:28	08/05/22 14:02
820-5243-91	CS-91	Soil	08/04/22 13:30	08/05/22 14:02
820-5243-92	CS-92	Soil	08/04/22 13:32	08/05/22 14:02
820-5243-93	CS-93	Soil	08/04/22 13:34	08/05/22 14:02
820-5243-94	CS-94	Soil	08/04/22 13:36	08/05/22 14:02
820-5243-95	CS-95	Soil	08/04/22 13:38	08/05/22 14:02
820-5243-96	CS-96	Soil	08/04/22 13:40	08/05/22 14:02
820-5243-97	CS-97	Soil	08/04/22 13:42	08/05/22 14:02
820-5243-98	CS-98	Soil	08/04/22 13:44	08/05/22 14:02
820-5243-99	CS-99	Soil	08/04/22 13:46	08/05/22 14:02
820-5243-100	CS-100	Soil	08/04/22 13:48	08/05/22 14:02
820-5243-101	CS-101	Soil	08/04/22 13:50	08/05/22 14:02
820-5243-102	CS-102	Soil	08/04/22 13:52	08/05/22 14:02
820-5243-103	CS-103	Soil	08/04/22 13:54	08/05/22 14:02
820-5243-104	CS-104	Soil	08/04/22 13:56	08/05/22 14:02
820-5243-105	CS-105	Soil	08/04/22 13:58	08/05/22 14:02
820-5243-106	CS-106	Soil	08/04/22 14:00	08/05/22 14:02
820-5243-107	CS-107	Soil	08/04/22 14:02	08/05/22 14:02
820-5243-108	CS-108	Soil	08/04/22 14:04	08/05/22 14:02

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey

Job ID: 820-5243-1
SDG: AR217165

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
820-5243-109	CS-109	Soil	08/04/22 14:06	08/05/22 14:02
820-5243-110	CS-110	Soil	08/04/22 14:08	08/05/22 14:02
820-5243-111	CS-111	Soil	08/04/22 14:10	08/05/22 14:02
820-5243-112	CS-112	Soil	08/04/22 14:12	08/05/22 14:02
820-5243-113	CS-113	Soil	08/04/22 14:14	08/05/22 14:02
820-5243-114	CS-114	Soil	08/04/22 14:16	08/05/22 14:02
820-5243-115	CS-115	Soil	08/04/22 14:18	08/05/22 14:02
820-5243-116	CS-116	Soil	08/04/22 14:20	08/05/22 14:02
820-5243-117	CS-117	Soil	08/04/22 14:22	08/05/22 14:02
820-5243-118	CS-118	Soil	08/04/22 14:24	08/05/22 14:02
820-5243-119	CS-119	Soil	08/04/22 14:26	08/05/22 14:02
820-5243-120	CS-120	Soil	08/04/22 14:28	08/05/22 14:02
820-5243-121	CS-121	Soil	08/04/22 14:30	08/05/22 14:02
820-5243-122	CS-122	Soil	08/04/22 14:32	08/05/22 14:02
820-5243-123	SP-F	Soil	08/04/22 14:34	08/05/22 14:02

CHAIN OF CUSTODY RECORD

Office Location		Laboratory: Xenco Address: 6701 Aberdeen Lubbock, Texas 79424		Phone: Contact: SRS #:		Project Manager J. Guesnier		Sampler's Name J. Guesnier		Sampler's Signature	
Terracon											
Project Number AR217165		Project Name Libbey		Identifying Marks of Sample(s)		No. Type of Containers		No. Type of Containers		No. Type of Containers	
Matrix	Date	Time	Comp	Grab	Start Depth	End Depth	4 oz Glass	2 oz Glass	250 ml	Poly	Lab Sample ID
S	8/4/2022	11:08	X		4'	5'	X				Page 2 of 7
S	8/4/2022	11:10	X		4'	5'	X				
S	8/4/2022	11:12	X		3'	3.5'	X				
S	8/4/2022	11:14	X		3'	3.5'	X				
S	8/4/2022	11:16	X		1.5'	2'	X				
S	8/4/2022	11:18	X		1.5'	2'	X				
S	8/4/2022	11:20	X		1.5'	2'	X				
S	8/4/2022	11:22	X		3'	3.5'	X				
S	8/4/2022	11:24	X		3'	3.5'	X				
S	8/4/2022	11:26	X		3'	3.5'	X				
S	8/4/2022	11:28	X		3'	3.5'	X				
S	8/4/2022	11:30	X		1.5'	2'	X				
S	8/4/2022	11:32	X		1.5'	2'	X				
S	8/4/2022	11:34	X		1.5'	2'	X				
S	8/4/2022	11:36	X		4'	5'	X				
S	8/4/2022	11:38	X		3'	3.5'	X				
S	8/4/2022	11:40	X		3'	3.5'	X				
S	8/4/2022	11:42	X		3'	3.5'	X				
S	8/4/2022	11:44	X		1.5'	2'	X				
TURNAROUND TIME		Normal		48-Hour Rush		24-Hour Rush		TRRP Laboratory Review Checklist		Yes ☐ No ☐	
Relinquished by (Signature)		Date: 8-5-22		Time: 14:02		Date: 8/5/22		Time: 1402		Bill To: Solaris Water Midstream (Rob Kirk)	
Relinquished by (Signature)		Date:		Time:		Date:		Time:		e-mail results to:	
Relinquished by (Signature)		Date:		Time:		Date:		Time:		joseph.guesnier@terracon.com	
Relinquished by (Signature)		Date:		Time:		Date:		Time:		erin.loyd@terracon.com	
Relinquished by (Signature)		Date:		Time:		Date:		Time:		mike.adams@terracon.com	

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

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CHAIN OF CUSTODY RECORD

Office Location		Laboratory: Xenco		Address: 6701 Aberdeen Lubbock, Texas 79424		Phone: _____		Contact: _____		SRS #: _____		Sampler's Signature _____	
Project Manager J. Guesnier		Project Number AR217165		Project Name Libbey		Identifying Marks of Sample(s)		No. Type of Containers		ANALYSIS REQUESTED		LAB USE ONLY DUE DATE: _____	
Matrix	Date	Time	Comp	Grab	Start Depth	End Depth	4 oz Glass	250 ml Poly	Chloride (EPA Method 300)	TPH Extended 8015	BTEX (EPA Method 8021B)	Temp of Cooler When Received (°C)	Page 3 of 7
S	8/4/2022	11:46	X		4'	5'	X		X	X	X	-7.4/-7.5	
S	8/4/2022	11:48	X		3'	3.5'	X		X	X	X	10.4	
S	8/4/2022	11:50	X		3'	3.5'	X		X	X	X		
S	8/4/2022	11:52	X		3'	3.5'	X		X	X	X		
S	8/4/2022	11:54	X		1.5'	2'	X		X	X	X		
S	8/4/2022	11:56	X		4'	5'	X		X	X	X		
S	8/4/2022	11:58	X		3'	3.5'	X		X	X	X		
S	8/4/2022	12:00	X		3'	3.5'	X		X	X	X		
S	8/4/2022	12:02	X		3'	3.5'	X		X	X	X		
S	8/4/2022	12:04	X		1.5'	2'	X		X	X	X		
S	8/4/2022	12:06	X		1.5'	2'	X		X	X	X		
S	8/4/2022	12:08	X		3'	3.5'	X		X	X	X		
S	8/4/2022	12:10	X		3'	3.5'	X		X	X	X		
S	8/4/2022	12:12	X		3'	3.5'	X		X	X	X		
S	8/4/2022	12:14	X		3'	3.5'	X		X	X	X		
S	8/4/2022	12:16	X		3'	3.5'	X		X	X	X		
S	8/4/2022	12:18	X		3'	3.5'	X		X	X	X		
S	8/4/2022	12:20	X		3'	3.5'	X		X	X	X		
S	8/4/2022	12:22	X		3'	3.5'	X		X	X	X		

TURNAROUND TIME		24-Hour Rush		48-Hour Rush		Normal		TRRP Laboratory Review Checklist		Yes		No	
Retest/Relinquish by (Signature)	Date	Time	Retest/Relinquish by (Signature)	Date	Time	Retest/Relinquish by (Signature)	Date	Time	Retest/Relinquish by (Signature)	Date	Time	Retest/Relinquish by (Signature)	Date
<i>[Signature]</i>	8-5-22	14:02	<i>[Signature]</i>	8-5-22	14:02								

Matrix	Container	W. Water	S. Soil	L. Liquid	A. Air Bag	C. Closed Tube	S. Sludge

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Terracon						Office Location		Laboratory: Xenco Address: 6701 Aberdeen Lubbock, Texas 79424		LAB USE ONLY DUE DATE: TEMP OF COOLER WHEN RECEIVED (°C) -7.4/-7.5 1024	
						Phone:		Contact:		Page 4 of 7	
						SRS #:		Sampler's Signature		ANALYSIS REQUESTED	
						Project Name		Libbey		BTEX (EPA Method 8021B)	
						Project Number		AR217165		TPH Extended 8015	
						Matrix		Date		Chloride (EPA Method 300)	
						Time		Identifying Marks of Sample(s)		No. Type of Containers	
						Comp		Grab		4 Oz Glass	
						End Depth		Start Depth		250 ml Poly	
S		8/4/2022	12:24	X		CS-58	3'	3.5'	X		X
S		8/4/2022	12:26	X		CS-59	1.5'	2'	X		X
S		8/4/2022	12:28	X		CS-60	1.5'	2'	X		X
S		8/4/2022	12:30	X		CS-61	3'	3.5'	X		X
S		8/4/2022	12:32	X		CS-62	3'	3.5'	X		X
S		8/4/2022	12:34	X		CS-63	3'	3.5'	X		X
S		8/4/2022	12:36	X		CS-64	3'	3.5'	X		X
S		8/4/2022	12:38	X		CS-65	3'	3.5'	X		X
S		8/4/2022	12:40	X		CS-66	3'	3.5'	X		X
S		8/4/2022	12:42	X		CS-67	3'	3.5'	X		X
S		8/4/2022	12:44	X		CS-68	3'	3.5'	X		X
S		8/4/2022	12:46	X		CS-69	1.5'	2'	X		X
S		8/4/2022	12:48	X		CS-70	1.5'	2'	X		X
S		8/4/2022	12:50	X		CS-71	3'	3.5'	X		X
S		8/4/2022	12:52	X		CS-72	3'	3.5'	X		X
S		8/4/2022	12:54	X		CS-73	3'	3.5'	X		X
S		8/4/2022	12:56	X		CS-74	3'	3.5'	X		X
S		8/4/2022	12:58	X		CS-75	3'	3.5'	X		X
S		8/4/2022	13:00	X		CS-76	3'	3.5'	X		X

TURNAROUND TIME		Normal		48-Hour Rush		24-Hour Rush		TRRP Laboratory Review Checklist		Yes		No	
Date	Signature	Date	Signature	Date	Signature	Date	Signature	Date	Signature	Date	Signature	Date	Signature
8-5-22	[Signature]	8-5-22	[Signature]	8-5-22	[Signature]	8-5-22	[Signature]	8-5-22	[Signature]	8-5-22	[Signature]	8-5-22	[Signature]
8-5-22	[Signature]	8-5-22	[Signature]	8-5-22	[Signature]	8-5-22	[Signature]	8-5-22	[Signature]	8-5-22	[Signature]	8-5-22	[Signature]
8-5-22	[Signature]	8-5-22	[Signature]	8-5-22	[Signature]	8-5-22	[Signature]	8-5-22	[Signature]	8-5-22	[Signature]	8-5-22	[Signature]
8-5-22	[Signature]	8-5-22	[Signature]	8-5-22	[Signature]	8-5-22	[Signature]	8-5-22	[Signature]	8-5-22	[Signature]	8-5-22	[Signature]

Bill To: Solaris Water Midstream (Rob Kirk)

e-mail results to:
joseph.guesnier@terracon.com
erin.loyd@terracon.com
mike.adams@terracon.com

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CHAIN OF CUSTODY RECORD

Terracon		Office Location		Laboratory: Xenco 6701 Aberdeen Lubbock, Texas 79424		ANALYSIS REQUESTED		LAB USE ONLY	
Project Manager J. Guesnier		Phone:		Contact:		TEMP OF COOLER WHEN RECEIVED (°C)		DUE DATE:	
Sampler's Name J. Guesnier		SRS #:		Sampler's Signature		Chloride (EPA Method 300)		BTEX (EPA Method 8021B)	
Project Number AR217165		Project Name Libbey		Identifying Marks of Sample(s)		No. Type of Containers		Lab Sample ID	
Matrix	Date	Time	Comp	Grab	Start Depth	End Depth	4 oz Glass	250 ml Poly	
S	8/4/2022	13:40	X		3'	3.5'	X		
S	8/4/2022	13:42	X		3'	3.5'	X		
S	8/4/2022	13:44	X		3'	3.5'	X		
S	8/4/2022	13:46	X		3'	3.5'	X		
S	8/4/2022	13:48	X		3'	3.5'	X		
S	8/4/2022	13:50	X		3'	3.5'	X		
S	8/4/2022	13:52	X		3'	3.5'	X		
S	8/4/2022	13:54	X		3'	3.5'	X		
S	8/4/2022	13:56	X		3'	3.5'	X		
S	8/4/2022	13:58	X		3'	3.5'	X		
S	8/4/2022	14:00	X		3'	3.5'	X		
S	8/4/2022	14:02	X		3'	3.5'	X		
S	8/4/2022	14:04	X		3'	3.5'	X		
S	8/4/2022	14:06	X		3'	3.5'	X		
S	8/4/2022	14:08	X		3'	3.5'	X		
S	8/4/2022	14:10	X		1.5'	2'	X		
S	8/4/2022	14:12	X		1.5'	2'	X		
S	8/4/2022	14:14	X		1.5'	2'	X		
S	8/4/2022	14:16	X		1.5'	2'	X		

TURNAROUND TIME		48-Hour Rush		24-Hour Rush		TRRP Laboratory Review Checklist	
Requiring (Signature)	Date	Requiring (Signature)	Date	Requiring (Signature)	Date	Requiring (Signature)	Date
<i>[Signature]</i>	8/5/22	<i>[Signature]</i>	8/5/22	<i>[Signature]</i>	8/5/22	<i>[Signature]</i>	8/5/22
<i>[Signature]</i>		<i>[Signature]</i>		<i>[Signature]</i>		<i>[Signature]</i>	
<i>[Signature]</i>		<i>[Signature]</i>		<i>[Signature]</i>		<i>[Signature]</i>	
<i>[Signature]</i>		<i>[Signature]</i>		<i>[Signature]</i>		<i>[Signature]</i>	

Bill To: Solans Water Midstream (Rob Kirk)		e-mail results to:	
Joseph.guesnier@terracon.com	erin.loyd@terracon.com	Joseph.guesnier@terracon.com	erin.loyd@terracon.com
mike.adams@terracon.com		mike.adams@terracon.com	

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התעורר

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 820-5243-1

SDG Number: AR217165

Login Number: 5243

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: 820-5243-1

SDG Number: AR217165

Login Number: 5243

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 08/08/22 08:34 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 Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-2763-1

Laboratory Sample Delivery Group: AE217165
Client Project/Site: Libbey Connection Release

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:
8/24/2022 10:09:35 AM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

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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: Libbey Connection Release

Laboratory Job ID: 890-2763-1
SDG: AE217165

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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 Eurofins Philadelphia 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. Eurofins Philadelphia is not responsible for sample integrity unless sampling has been performed by a member of our staff.

· Eurofins Philadelphia 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 Eurofins Philadelphia : Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).



Jessica Kramer
Project Manager
8/24/2022 10:09:35 AM

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Laboratory Job ID: 890-2763-1
SDG: AE217165

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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 890-2763-1
SDG: AE217165

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
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: Libbey Connection Release

Job ID: 890-2763-1
SDG: AE217165

Job ID: 890-2763-1

Laboratory: Eurofins Carlsbad**Narrative**

**Job Narrative
890-2763-1****Receipt**

The samples were received on 8/17/2022 8:02 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 5.4°C

HPLC/IC

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

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 890-2763-1
SDG: AE217165

Client Sample ID: CS 39.1

Lab Sample ID: 890-2763-1

Date Collected: 08/16/22 08:00

Matrix: Solid

Date Received: 08/17/22 08:02

Sample Depth: 7 - 8

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	26.2		5.03		mg/Kg			08/24/22 06:11	1

Client Sample ID: CS 33.1

Lab Sample ID: 890-2763-2

Date Collected: 08/16/22 08:05

Matrix: Solid

Date Received: 08/17/22 08:02

Sample Depth: 2 - 3

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	918		5.04		mg/Kg			08/24/22 06:20	1

Client Sample ID: CS 10.1

Lab Sample ID: 890-2763-3

Date Collected: 08/16/22 08:10

Matrix: Solid

Date Received: 08/17/22 08:02

Sample Depth: 2 - 3

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	85.2		5.01		mg/Kg			08/24/22 06:29	1

Client Sample ID: SW 119.1

Lab Sample ID: 890-2763-4

Date Collected: 08/16/22 10:15

Matrix: Solid

Date Received: 08/17/22 08:02

Sample Depth: 0.5 - 2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.0		4.96		mg/Kg			08/24/22 06:38	1

Client Sample ID: SW 122.1

Lab Sample ID: 890-2763-5

Date Collected: 08/16/22 10:35

Matrix: Solid

Date Received: 08/17/22 08:02

Sample Depth: 0.5 - 2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5990		49.9		mg/Kg			08/24/22 06:47	10

Eurofins Carlsbad

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 890-2763-1
SDG: AE217165

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-32497/1-A

Matrix: Solid

Analysis Batch: 32696

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			08/24/22 02:29	1

Lab Sample ID: LCS 880-32497/2-A

Matrix: Solid

Analysis Batch: 32696

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	239.0		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-32497/3-A

Matrix: Solid

Analysis Batch: 32696

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	234.8		mg/Kg		94	90 - 110	2	20

Lab Sample ID: 880-18314-A-19-C MS

Matrix: Solid

Analysis Batch: 32696

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	13.1		252	263.6		mg/Kg		99	90 - 110

Lab Sample ID: 880-18314-A-19-D MSD

Matrix: Solid

Analysis Batch: 32696

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	13.1		252	264.0		mg/Kg		100	90 - 110	0	20

Eurofins Carlsbad

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 890-2763-1
SDG: AE217165

HPLC/IC

Leach Batch: 32497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2763-1	CS 39.1	Soluble	Solid	DI Leach	
890-2763-2	CS 33.1	Soluble	Solid	DI Leach	
890-2763-3	CS 10.1	Soluble	Solid	DI Leach	
890-2763-4	SW 119.1	Soluble	Solid	DI Leach	
890-2763-5	SW 122.1	Soluble	Solid	DI Leach	
MB 880-32497/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-32497/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-32497/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-18314-A-19-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-18314-A-19-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 32696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2763-1	CS 39.1	Soluble	Solid	300.0	32497
890-2763-2	CS 33.1	Soluble	Solid	300.0	32497
890-2763-3	CS 10.1	Soluble	Solid	300.0	32497
890-2763-4	SW 119.1	Soluble	Solid	300.0	32497
890-2763-5	SW 122.1	Soluble	Solid	300.0	32497
MB 880-32497/1-A	Method Blank	Soluble	Solid	300.0	32497
LCS 880-32497/2-A	Lab Control Sample	Soluble	Solid	300.0	32497
LCSD 880-32497/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	32497
880-18314-A-19-C MS	Matrix Spike	Soluble	Solid	300.0	32497
880-18314-A-19-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	32497

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 890-2763-1
SDG: AE217165

Client Sample ID: CS 39.1

Lab Sample ID: 890-2763-1

Date Collected: 08/16/22 08:00

Matrix: Solid

Date Received: 08/17/22 08:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	32497	08/19/22 10:38	SMC	EET MID
Soluble	Analysis	300.0		1			32696	08/24/22 06:11	CH	EET MID

Client Sample ID: CS 33.1

Lab Sample ID: 890-2763-2

Date Collected: 08/16/22 08:05

Matrix: Solid

Date Received: 08/17/22 08:02

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	32497	08/19/22 10:38	SMC	EET MID
Soluble	Analysis	300.0		1			32696	08/24/22 06:20	CH	EET MID

Client Sample ID: CS 10.1

Lab Sample ID: 890-2763-3

Date Collected: 08/16/22 08:10

Matrix: Solid

Date Received: 08/17/22 08:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	32497	08/19/22 10:38	SMC	EET MID
Soluble	Analysis	300.0		1			32696	08/24/22 06:29	CH	EET MID

Client Sample ID: SW 119.1

Lab Sample ID: 890-2763-4

Date Collected: 08/16/22 10:15

Matrix: Solid

Date Received: 08/17/22 08:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	32497	08/19/22 10:38	SMC	EET MID
Soluble	Analysis	300.0		1			32696	08/24/22 06:38	CH	EET MID

Client Sample ID: SW 122.1

Lab Sample ID: 890-2763-5

Date Collected: 08/16/22 10:35

Matrix: Solid

Date Received: 08/17/22 08:02

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	32497	08/19/22 10:38	SMC	EET MID
Soluble	Analysis	300.0		10			32696	08/24/22 06:47	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 890-2763-1
SDG: AE217165

Laboratory: Eurofins Midland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

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Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 890-2763-1
SDG: AE217165

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET 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.

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 890-2763-1
SDG: AE217165

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2763-1	CS 39.1	Solid	08/16/22 08:00	08/17/22 08:02	7 - 8
890-2763-2	CS 33.1	Solid	08/16/22 08:05	08/17/22 08:02	2 - 3
890-2763-3	CS 10.1	Solid	08/16/22 08:10	08/17/22 08:02	2 - 3
890-2763-4	SW 119.1	Solid	08/16/22 10:15	08/17/22 08:02	0.5 - 2
890-2763-5	SW 122.1	Solid	08/16/22 10:35	08/17/22 08:02	0.5 - 2

CHAIN OF CUSTODY RECORD

[illegible]

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 890-2763-1

SDG Number: AE217165

Login Number: 2763

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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?	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	

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 890-2763-1

SDG Number: AE217165

Login Number: 2763

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 08/18/22 12:25 PM

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 Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-2782-1

Laboratory Sample Delivery Group: AR217165

Client Project/Site: Libby Connection Release

For:

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

Attn: Mike Adams

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

Authorized for release by:

8/25/2022 7:50:32 AM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

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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: Libby Connection Release

Laboratory Job ID: 890-2782-1
SDG: AR217165

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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 Eurofins Philadelphia field staff. Locations and certifications are identified on the Chain of Custody as follows:

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

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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. Eurofins Philadelphia is not responsible for sample integrity unless sampling has been performed by a member of our staff.

· Eurofins Philadelphia 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 Eurofins Philadelphia : Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).



Jessica Kramer
Project Manager
8/25/2022 7:50:32 AM

Client: Terracon Consulting Eng & Scientists
Project/Site: Libby Connection Release

Laboratory Job ID: 890-2782-1
SDG: AR217165

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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libby Connection Release

Job ID: 890-2782-1
SDG: AR217165

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
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: Libby Connection Release

Job ID: 890-2782-1
SDG: AR217165

Job ID: 890-2782-1

Laboratory: Eurofins Carlsbad**Narrative**

**Job Narrative
890-2782-1****Receipt**

The samples were received on 8/18/2022 4:08 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 3.0°C

HPLC/IC

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

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libby Connection Release

Job ID: 890-2782-1
SDG: AR217165

Client Sample ID: CS 59.1

Lab Sample ID: 890-2782-1

Date Collected: 08/18/22 11:32

Matrix: Solid

Date Received: 08/18/22 16:08

Sample Depth: 2 - 3

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.0		5.00		mg/Kg			08/24/22 08:01	1

Client Sample ID: CS 69.1

Lab Sample ID: 890-2782-2

Date Collected: 08/18/22 11:35

Matrix: Solid

Date Received: 08/18/22 16:08

Sample Depth: 2 - 3

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.8		4.99		mg/Kg			08/24/22 08:29	1

Client Sample ID: CS 25.1

Lab Sample ID: 890-2782-3

Date Collected: 08/18/22 11:05

Matrix: Solid

Date Received: 08/18/22 16:08

Sample Depth: 1 - 2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	355		5.01		mg/Kg			08/24/22 08:38	1

Client Sample ID: CS 120 SW

Lab Sample ID: 890-2782-4

Date Collected: 08/18/22 13:30

Matrix: Solid

Date Received: 08/18/22 16:08

Sample Depth: 0 - 2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.7		5.00		mg/Kg			08/24/22 08:47	1

Client Sample ID: CS 121 SW

Lab Sample ID: 890-2782-5

Date Collected: 08/18/22 13:35

Matrix: Solid

Date Received: 08/18/22 16:08

Sample Depth: 0 - 2

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.0		5.02		mg/Kg			08/24/22 08:56	1

Client Sample ID: SP-1

Lab Sample ID: 890-2782-6

Date Collected: 08/18/22 14:18

Matrix: Solid

Date Received: 08/18/22 16:08

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.4		5.02		mg/Kg			08/24/22 09:24	1

Eurofins Carlsbad

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libby Connection Release

Job ID: 890-2782-1
SDG: AR217165

Client Sample ID: SP-2

Lab Sample ID: 890-2782-7

Date Collected: 08/18/22 14:20

Matrix: Solid

Date Received: 08/18/22 16:08

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	571		24.9		mg/Kg			08/24/22 09:33	5

Client Sample ID: SP-3

Lab Sample ID: 890-2782-8

Date Collected: 08/18/22 14:22

Matrix: Solid

Date Received: 08/18/22 16:08

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	288		4.97		mg/Kg			08/24/22 09:42	1

Client Sample ID: CS81.1

Lab Sample ID: 890-2782-9

Date Collected: 08/18/22 10:16

Matrix: Solid

Date Received: 08/18/22 16:08

Sample Depth: 0 - 1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.9		5.03		mg/Kg			08/24/22 09:52	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libby Connection Release

Job ID: 890-2782-1
SDG: AR217165

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-32580/1-A

Matrix: Solid

Analysis Batch: 32762

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			08/24/22 07:34	1

Lab Sample ID: LCS 880-32580/2-A

Matrix: Solid

Analysis Batch: 32762

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	237.4		mg/Kg		95	90 - 110

Lab Sample ID: LCSD 880-32580/3-A

Matrix: Solid

Analysis Batch: 32762

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	231.4		mg/Kg		93	90 - 110	3	20

Lab Sample ID: 890-2782-1 MS

Matrix: Solid

Analysis Batch: 32762

Client Sample ID: CS 59.1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	15.0		250	256.4		mg/Kg		97	90 - 110

Lab Sample ID: 890-2782-1 MSD

Matrix: Solid

Analysis Batch: 32762

Client Sample ID: CS 59.1

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	15.0		250	261.0		mg/Kg		98	90 - 110	2	20

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QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libby Connection Release

Job ID: 890-2782-1
SDG: AR217165

HPLC/IC

Leach Batch: 32580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2782-1	CS 59.1	Soluble	Solid	DI Leach	
890-2782-2	CS 69.1	Soluble	Solid	DI Leach	
890-2782-3	CS 25.1	Soluble	Solid	DI Leach	
890-2782-4	CS 120 SW	Soluble	Solid	DI Leach	
890-2782-5	CS 121 SW	Soluble	Solid	DI Leach	
890-2782-6	SP-1	Soluble	Solid	DI Leach	
890-2782-7	SP-2	Soluble	Solid	DI Leach	
890-2782-8	SP-3	Soluble	Solid	DI Leach	
890-2782-9	CS81.1	Soluble	Solid	DI Leach	
MB 880-32580/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-32580/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-32580/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2782-1 MS	CS 59.1	Soluble	Solid	DI Leach	
890-2782-1 MSD	CS 59.1	Soluble	Solid	DI Leach	

Analysis Batch: 32762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2782-1	CS 59.1	Soluble	Solid	300.0	32580
890-2782-2	CS 69.1	Soluble	Solid	300.0	32580
890-2782-3	CS 25.1	Soluble	Solid	300.0	32580
890-2782-4	CS 120 SW	Soluble	Solid	300.0	32580
890-2782-5	CS 121 SW	Soluble	Solid	300.0	32580
890-2782-6	SP-1	Soluble	Solid	300.0	32580
890-2782-7	SP-2	Soluble	Solid	300.0	32580
890-2782-8	SP-3	Soluble	Solid	300.0	32580
890-2782-9	CS81.1	Soluble	Solid	300.0	32580
MB 880-32580/1-A	Method Blank	Soluble	Solid	300.0	32580
LCS 880-32580/2-A	Lab Control Sample	Soluble	Solid	300.0	32580
LCSD 880-32580/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	32580
890-2782-1 MS	CS 59.1	Soluble	Solid	300.0	32580
890-2782-1 MSD	CS 59.1	Soluble	Solid	300.0	32580

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libby Connection Release

Job ID: 890-2782-1
SDG: AR217165

Client Sample ID: CS 59.1

Lab Sample ID: 890-2782-1

Date Collected: 08/18/22 11:32

Matrix: Solid

Date Received: 08/18/22 16:08

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	32580	08/21/22 19:02	SMC	EET MID
Soluble	Analysis	300.0		1			32762	08/24/22 08:01	SMC	EET MID

Client Sample ID: CS 69.1

Lab Sample ID: 890-2782-2

Date Collected: 08/18/22 11:35

Matrix: Solid

Date Received: 08/18/22 16:08

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	32580	08/21/22 19:02	SMC	EET MID
Soluble	Analysis	300.0		1			32762	08/24/22 08:29	SMC	EET MID

Client Sample ID: CS 25.1

Lab Sample ID: 890-2782-3

Date Collected: 08/18/22 11:05

Matrix: Solid

Date Received: 08/18/22 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	32580	08/21/22 19:02	SMC	EET MID
Soluble	Analysis	300.0		1			32762	08/24/22 08:38	SMC	EET MID

Client Sample ID: CS 120 SW

Lab Sample ID: 890-2782-4

Date Collected: 08/18/22 13:30

Matrix: Solid

Date Received: 08/18/22 16:08

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	32580	08/21/22 19:02	SMC	EET MID
Soluble	Analysis	300.0		1			32762	08/24/22 08:47	SMC	EET MID

Client Sample ID: CS 121 SW

Lab Sample ID: 890-2782-5

Date Collected: 08/18/22 13:35

Matrix: Solid

Date Received: 08/18/22 16:08

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	32580	08/21/22 19:02	SMC	EET MID
Soluble	Analysis	300.0		1			32762	08/24/22 08:56	SMC	EET MID

Client Sample ID: SP-1

Lab Sample ID: 890-2782-6

Date Collected: 08/18/22 14:18

Matrix: Solid

Date Received: 08/18/22 16:08

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	32580	08/21/22 19:02	SMC	EET MID
Soluble	Analysis	300.0		1			32762	08/24/22 09:24	SMC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libby Connection Release

Job ID: 890-2782-1
SDG: AR217165

Client Sample ID: SP-2

Date Collected: 08/18/22 14:20

Date Received: 08/18/22 16:08

Lab Sample ID: 890-2782-7

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	32580	08/21/22 19:02	SMC	EET MID
Soluble	Analysis	300.0		5			32762	08/24/22 09:33	SMC	EET MID

Client Sample ID: SP-3

Date Collected: 08/18/22 14:22

Date Received: 08/18/22 16:08

Lab Sample ID: 890-2782-8

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			5.03 g	50 mL	32580	08/21/22 19:02	SMC	EET MID
Soluble	Analysis	300.0		1			32762	08/24/22 09:42	SMC	EET MID

Client Sample ID: CS81.1

Date Collected: 08/18/22 10:16

Date Received: 08/18/22 16:08

Lab Sample ID: 890-2782-9

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			4.97 g	50 mL	32580	08/21/22 19:02	SMC	EET MID
Soluble	Analysis	300.0		1			32762	08/24/22 09:52	SMC	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libby Connection Release

Job ID: 890-2782-1
SDG: AR217165

Laboratory: Eurofins Midland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

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Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libby Connection Release

Job ID: 890-2782-1
SDG: AR217165

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET 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.

Laboratory References:

- EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libby Connection Release

Job ID: 890-2782-1
SDG: AR217165

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2782-1	CS 59.1	Solid	08/18/22 11:32	08/18/22 16:08	2 - 3
890-2782-2	CS 69.1	Solid	08/18/22 11:35	08/18/22 16:08	2 - 3
890-2782-3	CS 25.1	Solid	08/18/22 11:05	08/18/22 16:08	1 - 2
890-2782-4	CS 120 SW	Solid	08/18/22 13:30	08/18/22 16:08	0 - 2
890-2782-5	CS 121 SW	Solid	08/18/22 13:35	08/18/22 16:08	0 - 2
890-2782-6	SP-1	Solid	08/18/22 14:18	08/18/22 16:08	
890-2782-7	SP-2	Solid	08/18/22 14:20	08/18/22 16:08	
890-2782-8	SP-3	Solid	08/18/22 14:22	08/18/22 16:08	
890-2782-9	CS81.1	Solid	08/18/22 10:16	08/18/22 16:08	0 - 1

CHAIN OF CUSTODY RECORD

[illegible]

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 890-2782-1

SDG Number: AR217165

Login Number: 2782

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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?	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	

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 890-2782-1

SDG Number: AR217165

Login Number: 2782

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 08/22/22 08:49 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: 820-5538-1

Laboratory Sample Delivery Group: AR217165
Client Project/Site: Libbey Connection Release

For:

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

Attn: Erin Lloyd

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

Authorized for release by:

8/29/2022 12:11:32 PM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

Review your project
results through



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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: Libbey Connection Release

Laboratory Job ID: 820-5538-1
SDG: AR217165

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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 Eurofins Philadelphia 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. Eurofins Philadelphia is not responsible for sample integrity unless sampling has been performed by a member of our staff.

· Eurofins Philadelphia 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 Eurofins Philadelphia : Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).



Jessica Kramer
Project Manager
8/29/2022 12:11:32 PM

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Laboratory Job ID: 820-5538-1
SDG: AR217165

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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-5538-1
SDG: AR217165

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
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: Libbey Connection Release

Job ID: 820-5538-1
SDG: AR217165

Job ID: 820-5538-1

Laboratory: Eurofins Lubbock

Narrative	
	Job Narrative 820-5538-1

Receipt

The samples were received on 8/25/2022 9:55 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 -1.7°C

HPLC/IC

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

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Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-5538-1
SDG: AR217165

Client Sample ID: CS-33.2

Lab Sample ID: 820-5538-1

Date Collected: 08/23/22 14:00

Matrix: Solid

Date Received: 08/25/22 09:55

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	161		9.98		mg/Kg		08/26/22 18:03	08/26/22 21:04	1

Client Sample ID: SW-122.2

Lab Sample ID: 820-5538-2

Date Collected: 08/23/22 14:15

Matrix: Solid

Date Received: 08/25/22 09:55

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	82.6		9.98		mg/Kg		08/26/22 18:03	08/26/22 21:40	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-5538-1
SDG: AR217165

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-66847/1-A

Matrix: Solid

Analysis Batch: 66767

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 66847

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg		08/26/22 18:03	08/26/22 18:42	1

Lab Sample ID: LCS 860-66847/2-A

Matrix: Solid

Analysis Batch: 66767

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 66847

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	105.7		mg/Kg		106	80 - 120

Lab Sample ID: LCSD 860-66847/3-A

Matrix: Solid

Analysis Batch: 66767

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 66847

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	105.9		mg/Kg		106	80 - 120	0	20

Lab Sample ID: 820-5538-1 MS

Matrix: Solid

Analysis Batch: 66767

Client Sample ID: CS-33.2

Prep Type: Total/NA

Prep Batch: 66847

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	161		99.4	263.0		mg/Kg		102	80 - 120

Lab Sample ID: 820-5538-1 MSD

Matrix: Solid

Analysis Batch: 66767

Client Sample ID: CS-33.2

Prep Type: Total/NA

Prep Batch: 66847

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	161		100	264.5		mg/Kg		103	80 - 120	1	20

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-5538-1
SDG: AR217165

HPLC/IC

Analysis Batch: 66767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5538-1	CS-33.2	Total/NA	Solid	300.0	66847
820-5538-2	SW-122.2	Total/NA	Solid	300.0	66847
MB 860-66847/1-A	Method Blank	Total/NA	Solid	300.0	66847
LCS 860-66847/2-A	Lab Control Sample	Total/NA	Solid	300.0	66847
LCSD 860-66847/3-A	Lab Control Sample Dup	Total/NA	Solid	300.0	66847
820-5538-1 MS	CS-33.2	Total/NA	Solid	300.0	66847
820-5538-1 MSD	CS-33.2	Total/NA	Solid	300.0	66847

Prep Batch: 66847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5538-1	CS-33.2	Total/NA	Solid	300_Prep	
820-5538-2	SW-122.2	Total/NA	Solid	300_Prep	
MB 860-66847/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-66847/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-66847/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
820-5538-1 MS	CS-33.2	Total/NA	Solid	300_Prep	
820-5538-1 MSD	CS-33.2	Total/NA	Solid	300_Prep	

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-5538-1
SDG: AR217165

Client Sample ID: CS-33.2
Date Collected: 08/23/22 14:00
Date Received: 08/25/22 09:55

Lab Sample ID: 820-5538-1
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	300_Prep			5.01 g	50 mL	66847	08/26/22 18:03	RBNS	EET HOU
Total/NA	Analysis	300.0		1	0 mL	0 mL	66767	08/26/22 21:04	RBNS	EET HOU

Client Sample ID: SW-122.2
Date Collected: 08/23/22 14:15
Date Received: 08/25/22 09:55

Lab Sample ID: 820-5538-2
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			5.01 g	50 mL	66847	08/26/22 18:03	RBNS	EET HOU
Total/NA	Analysis	300.0		1	0 mL	0 mL	66767	08/26/22 21:40	RBNS	EET HOU

Laboratory References:
EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-5538-1
SDG: AR217165

Laboratory: Eurofins Houston

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-22-47	06-30-23

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

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-5538-1
SDG: AR217165

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	EET HOU
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	MCAWW	EET HOU

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Libbey Connection Release

Job ID: 820-5538-1
SDG: AR217165

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
820-5538-1	CS-33.2	Solid	08/23/22 14:00	08/25/22 09:55
820-5538-2	SW-122.2	Solid	08/23/22 14:15	08/25/22 09:55

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Loc: 820
5538

[illegible]

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Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 820-5538-1

SDG Number: AR217165

Login Number: 5538

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: 820-5538-1

SDG Number: AR217165

Login Number: 5538

List Number: 2

Creator: Milone, Jeancarlo

List Source: Eurofins Houston

List Creation: 08/26/22 03:30 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	

APPENDIX E – WASTE MANIFEST

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

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

Standard of Care

Terracon's services were performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographical area during the same time. Terracon makes no warranties, either express or implied, regarding the findings, conclusions, or recommendations. Please note that Terracon does not warrant the work of laboratories, regulatory agencies, or other third parties supplying information used in the preparation of the report. These services were performed in accordance with the scope of work agreed with you, Solaris Water Midstream, as reflected in our proposal (PA4197040).

Additional Scope Limitations

Development of this RAP is based upon information provided by the Client and Terracon's remediation and construction services line. Such information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, nondetectable, or not present during these services. We cannot represent that the site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those by information provided by the Client. The data, interpretations, findings, and our recommendations are based solely upon reformation executed within the scope of these services.

Reliance

This report has been prepared for the exclusive use of Solaris Water Midstream, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the site) is prohibited without the express written authorization of Solaris Water Midstream and Terracon. Any unauthorized distribution or reuse is at Solaris Water Midstream sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions, and limitations stated in the proposal and Solaris Water Midstream and Terracon's Master Services Agreement. The limitation of liability defined in the terms and conditions is the aggregate limit of Terracon's liability to Solaris Water Midstream and all relying parties unless otherwise agreed in writing.

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 157489

CONDITIONS

Operator: SOLARIS WATER MIDSTREAM, LLC 907 Tradewinds Blvd, Suite B Midland, TX 79706	OGRID: 371643
	Action Number: 157489
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	12/9/2022