Received by OCD: 6/16/2022 10:07:31 AM Form C-141 State of New Mexico Page 6 Oil Conservation Division

Incident ID

District RP
Facility ID

Application ID

Closure

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

Closure Report Attachment Checklist: Each of the following i	tems must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.1	I1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODG	C District office must be notified 2 days prior to final sampling)
☐ Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and remuman health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the coaccordance with 19.15.29.13 NMAC including notification to the O	ations. The responsible party acknowledges they must substantially anditions that existed prior to the release or their final land use in
Signature: Josh Grane	Date: 6/16/2022
email:jrguesnier@terracon.com	Telephone: _806-544-9276
OCD Only	
Received by: Robert Hamlet	Date:10/21/2022
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by: Robert Hamlet	Date: 10/21/2022
Printed Name: Robert Hamlet	Title: Environmental Specialist - Advanced

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Oil Conservation Division

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District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	(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 vert contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	ical extents of soil
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	s.
 ✓ 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	
EN Lucotator, data instanting statutes,	

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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Incident ID

District RP

Facility ID

Application ID

Closure

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

Closure Report Attachment Checklist: Each of the following	titems must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29	2.11 NMAC
Photographs of the remediated site prior to backfill or photomust be notified 2 days prior to liner inspection)	os of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate Of	OC District office must be notified 2 days prior to final sampling)
☐ Description of remediation activities	
and regulations all operators are required to report and/or file certa may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and re human health or the environment. In addition, OCD acceptance of	conditions. The responsible party acknowledges they must substantially conditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete. Senior Staff Scientist
OCD Only	
Received by:	Date:
	y of liability should their operations have failed to adequately investigate and e water, human health, or the environment nor does not relieve the responsible d/or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

Silverback Operating II, LLC
Marshall APH Battery
32.677195, -104.491865
NMOCD Reference # NAPP2208043246
Terracon Project # AR227085



Closure Plan

Attn: Mr. Mark Ritchie P: 210-874-2406

E: mritchie@silverbackexp.com

RE: Release Investigation and Remedial Action Plan

Marshall APH Battery Unit F, Section 9, Township 19 south, Range 25 east Eddy County, New Mexico Terracon Project No. AR227085

Dear Mr. Ritchie,

Terracon Consultants, Inc. (Terracon) is pleased to submit our 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 recommends the following actions be taken to achieve protection of fresh water and the environment in accordance with NMOCD regulations. Terracon executed this Closure Report in general accordance with our scope of work (AR227085) dated March 13, 2022.

Action Items

Completed Actions

- 1) Conducted delineation sample collection and analysis.
- 2) Excavated and removed impacted material from site and area of concern.
- 3) Confirmation samples collected from all side walls and floor of excavation.
- 4) Closure report delivered to the NMOCD.

Anticipated Actions

- 1) Treatment of exhumed soils with TB-2000 microbes for TPH remediation.
- 2) Backfill of the open excavation following successful soil treatment and NMOCD concurrence of this report.

Variance Requested

1) Not applicable.



Terracon appreciates this opportunity to provide environmental services to Silverback Operating II, LLC. Should you have any questions or require additional information, please do not hesitate to contact our office.

Sincerely,

Terracon Consultants, Inc.

Joseph Guesnier, NORM RSO

Senior Staff Scientist

Lubbock

Erin Loyd P.G. (TX)

Principal

Office Manager - Lubbock

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Incident Information	2
General Site Characteristics	3
Regulatory Framework and Response Action Levels	
Soil Investigation Discussion	5
Release Margins Data Evaluation	
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Termination of Reclamation Actions, Final Closure and Reporting	8
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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 Soil Sampling Map

Exhibit 6 - NMOSE POD Location Map

Exhibit 7 – Cave Karst Public UCP Map

Appendix B - Tables, Procedures, and Figures

Table 1 - Closure Criteria for Soils Impacted by a release

Procedure 1 - Soil Sampling Procedures

Table 2 – Soil Sample Analytical Results

Appendix C – Photographic Log

Appendix D – Analytical Report and Chain of Custody

Appendix E - Terracon Standard of Care, Limitation, and Reliance



Incident Information

The following table provides detailed information regarding the March 13, 2022 Marshall APH Battery site in Eddy County, New Mexico:

Required Information	Site and Release information						
Responsible party	The facility is operated by Silverback Operating II, LLC						
Local contact	Contact: Mr. Mark Ritchie	Contact: Mr. Mark Ritchie P: (210) 874-2406					
		E: mritchie@silverbackexp.com					
NMOCD Notification	Notice of the release was provided to the NMOCD District 2 Artesia Office by Mark Ritchie (Silverback) on March 13, 2022.						
Facility description Site Map – (Exhibit 2 in Appendix A)	Marshall APH Battery is in Eddy County, New Mexico. The facility encompasses an approximate 2-acre area located within Unit F, Section 9, Township 19 South, Range 25 East, approximately 16 miles southwest of Artesia, New Mexico. The site is comprised of three produced water tanks, one crude oil tank, 1 heater treater and 3 seperators, and is surrounded by predominantly undeveloped native pastureland.						
Time of incident	March 13, 2022, discovered at 10:00 a.m.						
Discharge event		The cause of the release is believed to be the result of a failed gasket on an heater treater and was discovered by the pumper. Site illustrated in Figure 2 of Appendix A.					
Type of discharge	tank battery pad and rem	The documented mixed fluids release occurred within the boundaries of the tank battery pad and remained within the earthen containment; surfaces were observed to be saturated to a depth of 1 ft. below grade surface (bgs).					
Quantity of spilled	Total Fluids: 10 bbls	Produced Water: mixed					
material		Total Petroleum Hydrocarbons: mixed					
	Relatively flat with drainage following the native ground surface; very gently sloping to the southeast.						
Site characteristics	Relatively flat with drainag sloping to the southeast.	e following the native ground surface; very gently					



	Site Ranking Criteria					
Remedial Determining Information	Site Ranking Characteristics					
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)	POD Number: (RA-05333) Depth to Groundwater: 260 ft. bgs Distance to Well: 0.54 miles to the northeast Date Drilled: April 4, 1967					
	<u>Groundwater Quality</u> : Groundwater quality at the site is predominately used for livestock production.					
Surface Water	Brantley Lake (South-eastern Eddy County, NM), approximately 8.1 miles to the southwest.					
Soil Characteristics	Soils at the site are mapped as Reagan loam soils, 0 to 3 percent slopes, well-drained, 0 to 60 inches loam. Restrictive features are present at 84 inches bgs resulting in the formation being categorized with a Low runoff classification and a well-drained, drainage classification.					
Karst Characterization Cave Karst Public UCP Map – (Exhibit 7 in Appendix A)	Terracon evaluated data from the NMOCD Public FTP Site, Karst map designations in reference to the site location. The site appears to be within a moderate-level Karst risk area. Based on on-site observations within the extent of the release margins the potential for Karst formations in this specific area are of low potential. The full extent of release quantities and excavation activities did extend greater than 84 inches bgs.					

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 Marshall APH Battery.

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 / on pad)

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 or on pad), 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		



Soil Investigation Discussion

During Terracon's April 02, 2022 and May 5, 2022 release investigation activities, a total of 20 soil samples were collected from the site and analyzed for BTEX, chloride, and/or TPH. All 20 samples were collected from within the release margins considering all fluids remained within the earthen containment at the battery.

Release Margins Data Evaluation

Reclamation Assessment Data Evaluation

Benzene was detected above applicable laboratory SDLs in nine of the 10 soil samples analyzed within Reclamation Assessment target depths. The Total Benzene concentrations ranged from was 0.0015 mg/kg in HA-1 (0.5 ft. bgs to 1 ft. bgs) to 147 mg/kg in HA-2 (3.5 ft. bgs to 4 ft. bgs). Of the 10 soil samples analyzed, five soil samples exhibited Benzene concentrations above the applicable NMOCD Reclamation Assessment limit (RAL) of 10 mg/kg, as summarized in Table 2.

Total BTEX was detected above applicable laboratory SDLs in seven of the 8 soil samples analyzed within Reclamation Assessment target depths. The Total BTEX concentrations ranged from 0.0025 mg/kg in in HA-1 (0.5 ft. bgs to 1 ft. bgs) to 1,080 mg/kg in HA-2 (0.5 ft. bgs to 1 ft. bgs). Of the eight soil samples analyzed, two soil samples exhibited Total BTEX concentrations above the applicable NMOCD RAL for Total BTEX of 50 mg/kg, as summarized in Table 2.

Total TPH was detected above applicable laboratory SDLs in nine of the 13 soil samples analyzed within the Reclamation Assessment target depths. The Total TPH concentrations ranged from 137 mg/kg in HA-1 (0.5 ft. bgs to 1 ft. bgs) to 18,500 mg/kg in HA-3 (0 ft. bgs to 0.5 ft. bgs). Of the 13 soil samples analyzed, 8 soil samples exhibited Total TPH concentrations above the applicable NMOCD RAL of 2,500 mg/kg for Total TPH, as summarized in Table 2.

Chloride was detected above applicable laboratory SDLs in each of the 10 soil samples analyzed within the Reclamation Assessment target depths. The chloride concentrations ranged from 64.9 mg/kg in soil sample HA-4 (0 ft. bgs to 0.5 ft. bgs) to 2,740 mg/kg in soil sample HA-1 (1.5 ft. bgs to 2 ft. bgs). Of the 10 soil samples analyzed, zero soil samples exhibited chloride concentrations above the applicable NMOCD RAL of 20,000 mg/kg, as summarized in Table 2.

Remediation Assessment Data Evaluation

At the soil boring location HA-2, soil samples was collected and analyzed from the 4.5 to 5 ft. bgs interval for the presence of constituents of concern. The other boring locations (HA-1, HA-3, HA-4, and HA-5) field data did not support sampling at deeper horizons and laboratory data in Table 2 supports those findings.



Benzene was detected above applicable laboratory SDLs in each of the two soil samples analyzed within Reclamation Assessment target depths. The Total Benzene concentrations ranged from was 0.00371 mg/kg in HA-2 (9 ft. bgs to 10 ft. bgs) to 41.5 mg/kg in HA-2 (4.5 ft. bgs to 5 ft. bgs). Of the two soil samples analyzed, one soil sample exhibited Benzene concentrations above the applicable NMOCD Reclamation Assessment limit (RAL) of 10 mg/kg, as summarized in Table 2.

Total BTEX was detected above applicable laboratory SDLs in one soil sample analyzed within Reclamation Assessment target depths. The Total BTEX concentrations was from 0.202 mg/kg in in HA-2 (9 ft. bgs to 10 ft. bgs). The soil sample analyzed, did not exhibit Total BTEX concentrations above the applicable NMOCD RAL for Total BTEX of 50 mg/kg, as summarized in Table 2.

Total TPH was detected above applicable laboratory SDLs in each of the seven soil samples analyzed within the Reclamation Assessment target depths. The Total TPH concentrations ranged from 113 mg/kg in HA-2 (8 ft. bgs to 9 ft. bgs) to 6,350 mg/kg in HA-2 (4.5 ft. bgs to 5 ft. bgs). Of the seven soil samples analyzed, 3 soil samples exhibited Total TPH concentrations above the applicable NMOCD RAL of 2,500 mg/kg for Total TPH, as summarized in Table 2.

Chloride was detected above applicable laboratory SDLs in each of the two soil samples analyzed within the Reclamation Assessment target depths. The chloride concentrations ranged from 629 mg/kg in soil sample HA-2 (9 ft. bgs to 10 ft. bgs) to 2,200 mg/kg in soil sample HA-2 (4.5 ft. bgs to 5 ft. bgs). Of the two soil samples analyzed, no soil samples exhibited chloride concentrations above the applicable NMOCD RAL of 20,000 mg/kg, as summarized in Table 2.

Release Investigation Data Summary

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

Of the 20 soil samples analyzed, 11 soil samples exhibited total petroleum hydrocarbon concentrations above the applicable NMOCD Reclamation Action Limit of 2,500 mg/kg. While horizontal and vertical delineation were achieved the Total TPH concentrations above an actionable limits were concentrated at the surface at HA-1 and HA-3, and the HA-2 boring location exhibited Total TPH concentrations above the Reclamation Action Limit of 2,500 mg/kg to a depth of 6 ft. bgs.

It is anticipated that released fluids and associated hydrocarbons consolidated around the boring location of HA-2 and saturated to a depth of 6ft. bgs. Terracon collected additional vertical delineation samples and analyzed for the presence of Total TPH in all samples and all NMOCD RAL constituents in our deepest sample

Responsive Resourceful Reliable



HA-2 (9 ft. bgs to 10 ft. bgs) to ensure that concentrations were not elevated further at this interphase.

Confirmation Data Evaluation

During Terracon's June 6, 2022 and June 7, 2022 remediation and confirmation sampling activities, a total of 125 cubic yards (cy) of soil was excavated from the site and staged on plastic for treatment and backfill following the acceptance of this closure report. Additionally, a total of 15 soil samples were collected from the site and analyzed for BTEX, chloride, and/or TPH. All 15 samples were collected from within the base and walls of the excavation.

Benzene was detected above applicable laboratory SDLs in five of the 15 soil samples analyzed within Confirmation Assessment target depths. The Total Benzene concentrations ranged from was 0.00942 mg/kg in F-1 (1 ft. bgs to 2 ft. bgs) to 1.94 mg/kg in F-3 (8 ft. bgs to 9 ft. bgs). Of the 15 soil samples analyzed, no soil samples exhibited Benzene concentrations above the applicable NMOCD Confirmation Assessment limit (RAL) of 10 mg/kg, as summarized in Table 2.

Total BTEX was detected above applicable laboratory SDLs in 9 of the 15 soil sample analyzed within Confirmation Assessment target depths. The Total BTEX concentrations ranged from 0.00428 mg/kg in SW (0.5 ft. bgs to 1 ft. bgs) to 26.4 mg/kg in F-3 (8 ft. bgs to 9 ft. bgs). The soil samples analyzed, did not exhibit Total BTEX concentrations above the applicable NMOCD RAL for Total BTEX of 50 mg/kg, as summarized in Table 2.

Total TPH was detected above applicable laboratory SDLs in nine of the 15 soil samples analyzed within the Confirmation Assessment target depths. The Total TPH concentrations ranged from 114 mg/kg in NWW (0.5 ft. bgs to 1 ft. bgs) to 4,880 mg/kg in SWW (0.5 ft. bgs to 1 ft. bgs). Of the 15 soil samples analyzed, one soil samples exhibited Total TPH concentrations above the applicable NMOCD RAL of 2,500 mg/kg for Total TPH this location was further excavated and resulted in a reduced concentration of 193 mg/kg in SWW (0.5 ft. bgs to 1 ft. bgs) sample collected on June 7, 2022, as summarized in Table 2.

GRO/DRO was detected above applicable laboratory SDLs in nine of the 15 soil samples analyzed within the Confirmation Assessment target depths. The GRO/DRO concentrations ranged from 114 mg/kg in NWW (0.5 ft. bgs to 1 ft. bgs) to 4,880 mg/kg in SWW (0.5 ft. bgs to 1 ft. bgs). Of the 15 soil samples analyzed, three soil samples exhibited Total TPH concentrations above the applicable NMOCD RAL of 1,000 mg/kg for GRO/DRO these locations was further excavated and resulted in reduced concentrations of 193 mg/kg in SWW (0.5 ft. bgs to 1 ft. bgs) and 260 mg/kg in WW (0.5 ft. bgs to 1 ft. bgs) and 842 mg/kg in F-3 (8 ft. bgs to 9 ft. bgs)samples collected on June 7, 2022, as summarized in Table 2.

Chloride was detected above applicable laboratory SDLs in each of the 15 soil samples analyzed within the Confirmation Assessment target depths. The chloride concentrations ranged from 15.8 mg/kg in soil sample

Responsive - Resourceful - Reliable



EW (3 ft. bgs to 4 ft. bgs) to 6,680 mg/kg in soil sample SWW (0.5 ft. bgs to ft. bgs). Of the 15 soil samples analyzed, no soil samples exhibited chloride concentrations above the applicable NMOCD RAL of 20,000 mg/kg, as summarized in Table 2.

Confirmation 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. No further remedial action appears warranted at this time.

Termination of Reclamation Actions, Final Closure and Reporting

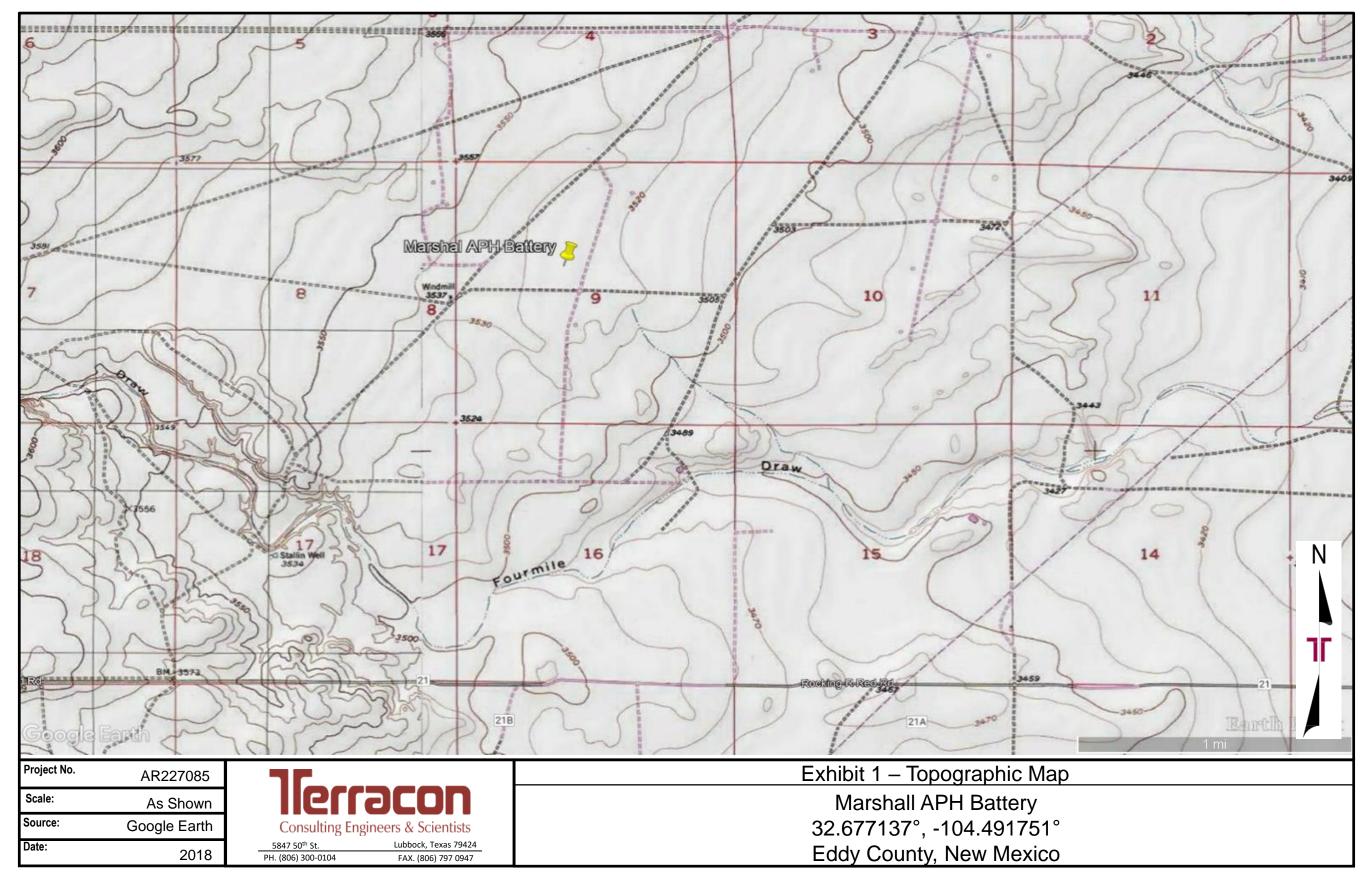
Reclamation and remedial actions at the site were terminated when the confirmation samples indicate that the above objectives had been completed within the reclamation and remedial depth designations. The intent of the reclamation and remedial approaches were to achieve compliance with NMOCD regulatory objectives in ensuring that any remaining contaminants will not pose a threat to present or foreseeable beneficial use of fresh water, the public health and the environment.

Upon termination of remedial actions, the area of the release will be closed by backfilling the excavated area with the previously exhumed and treated soils, and contouring to surrounding area topography and constructing the previous earthen berm that surrounded the site.

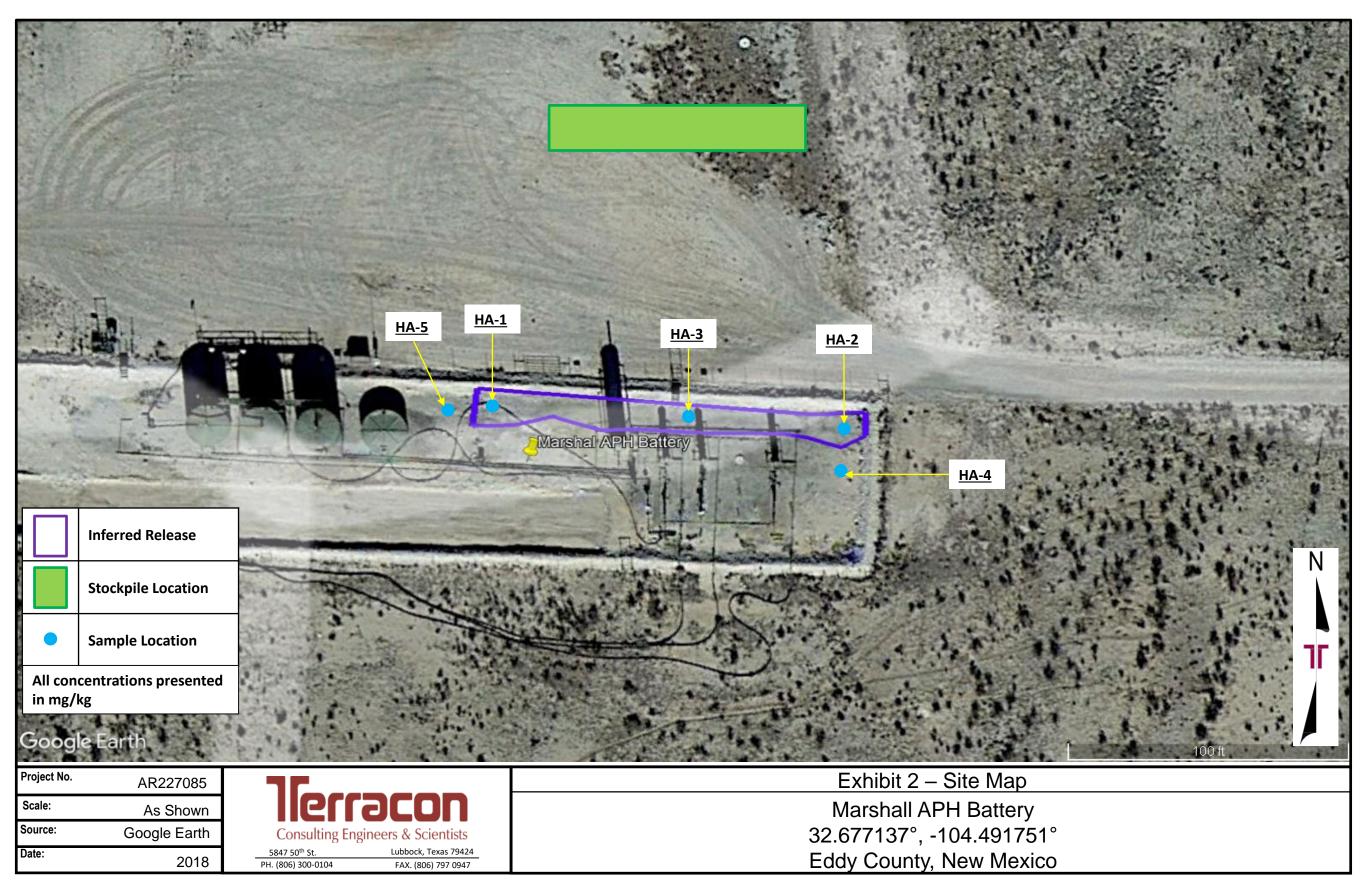
Upon completion of remedial activities, a final report summarizing actions taken to mitigate environmental damage related to the release has been provided to NMOCD for approval.

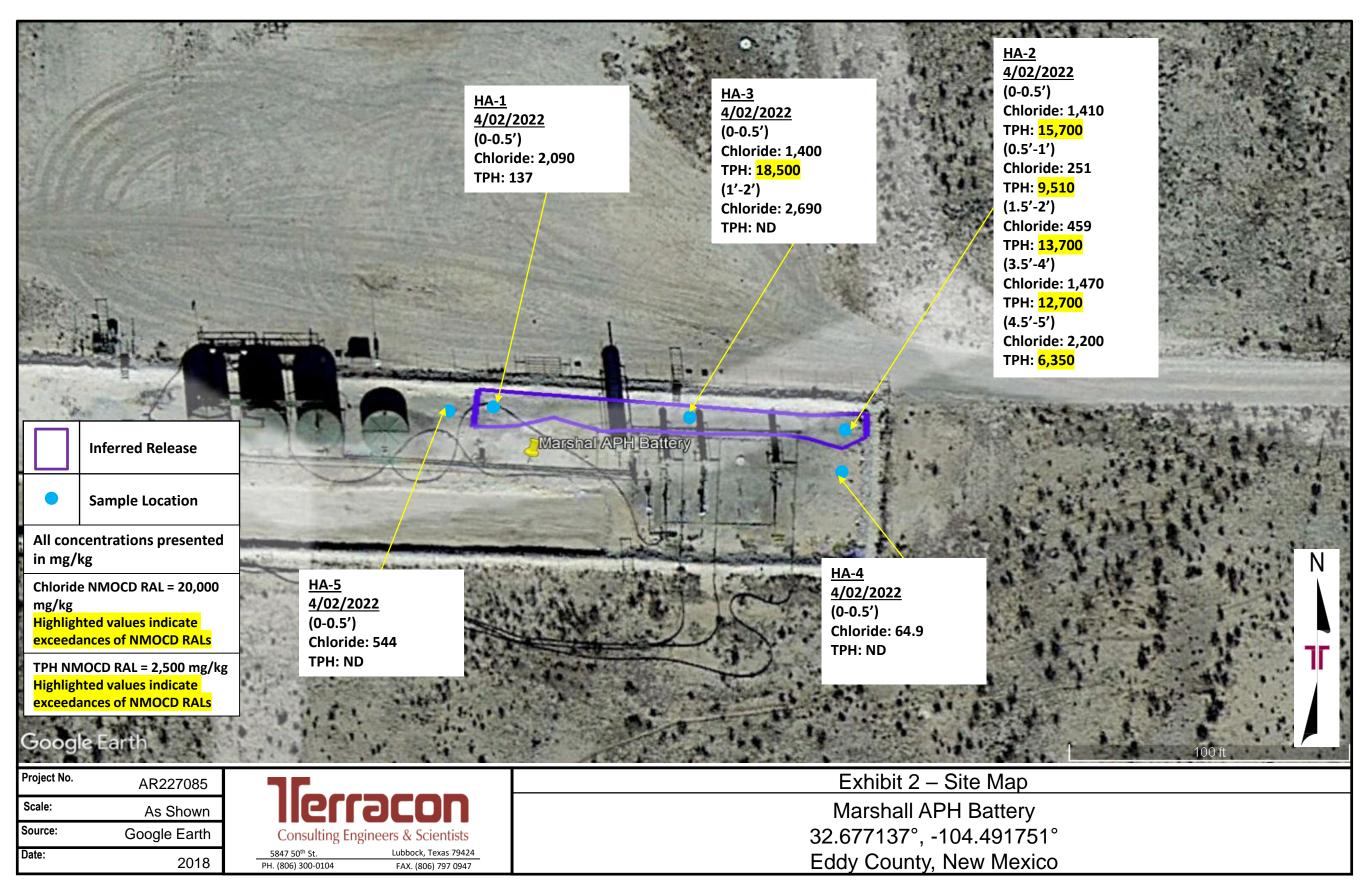
APPENDIX A - EXHIBITS

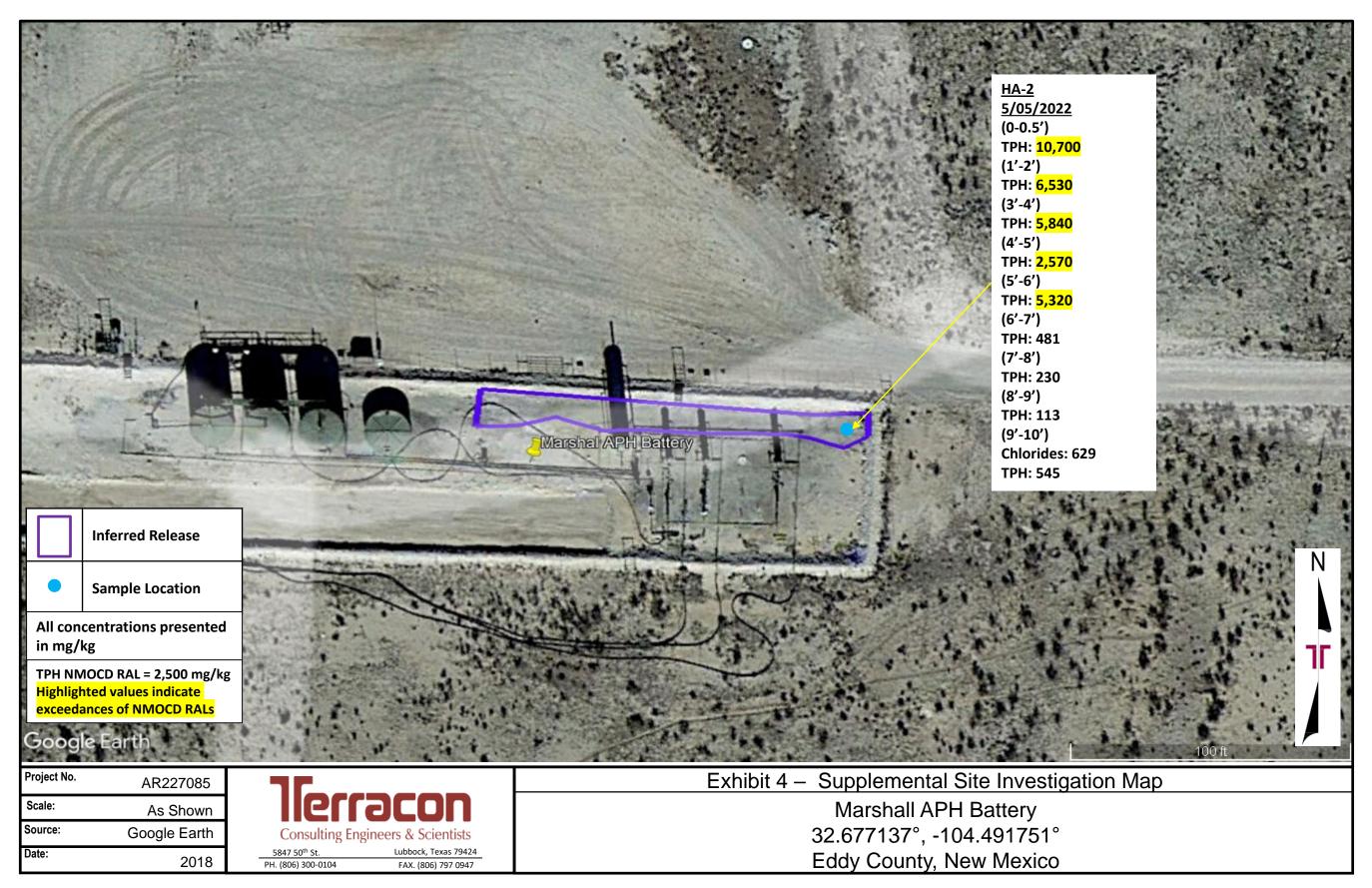
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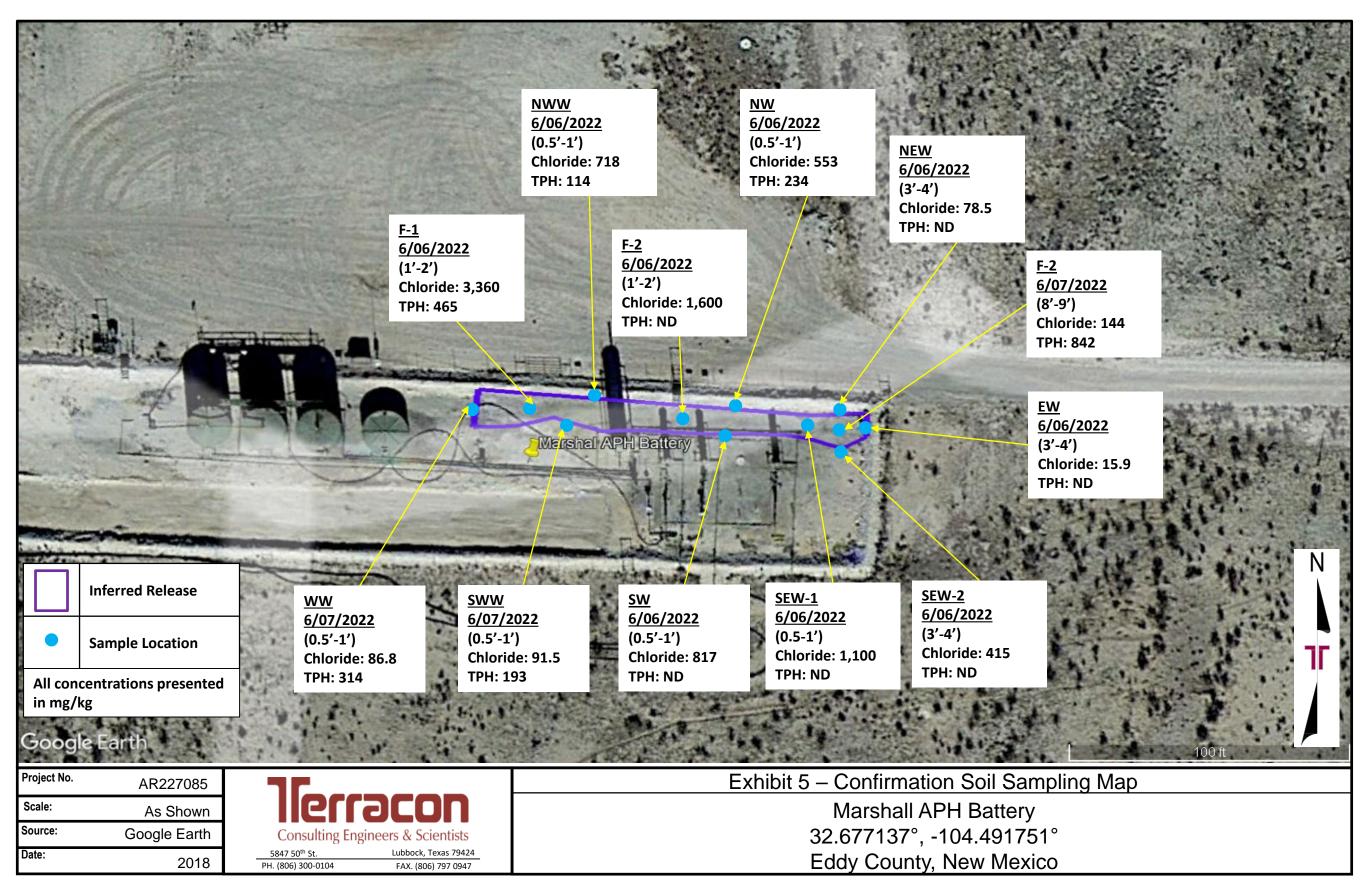


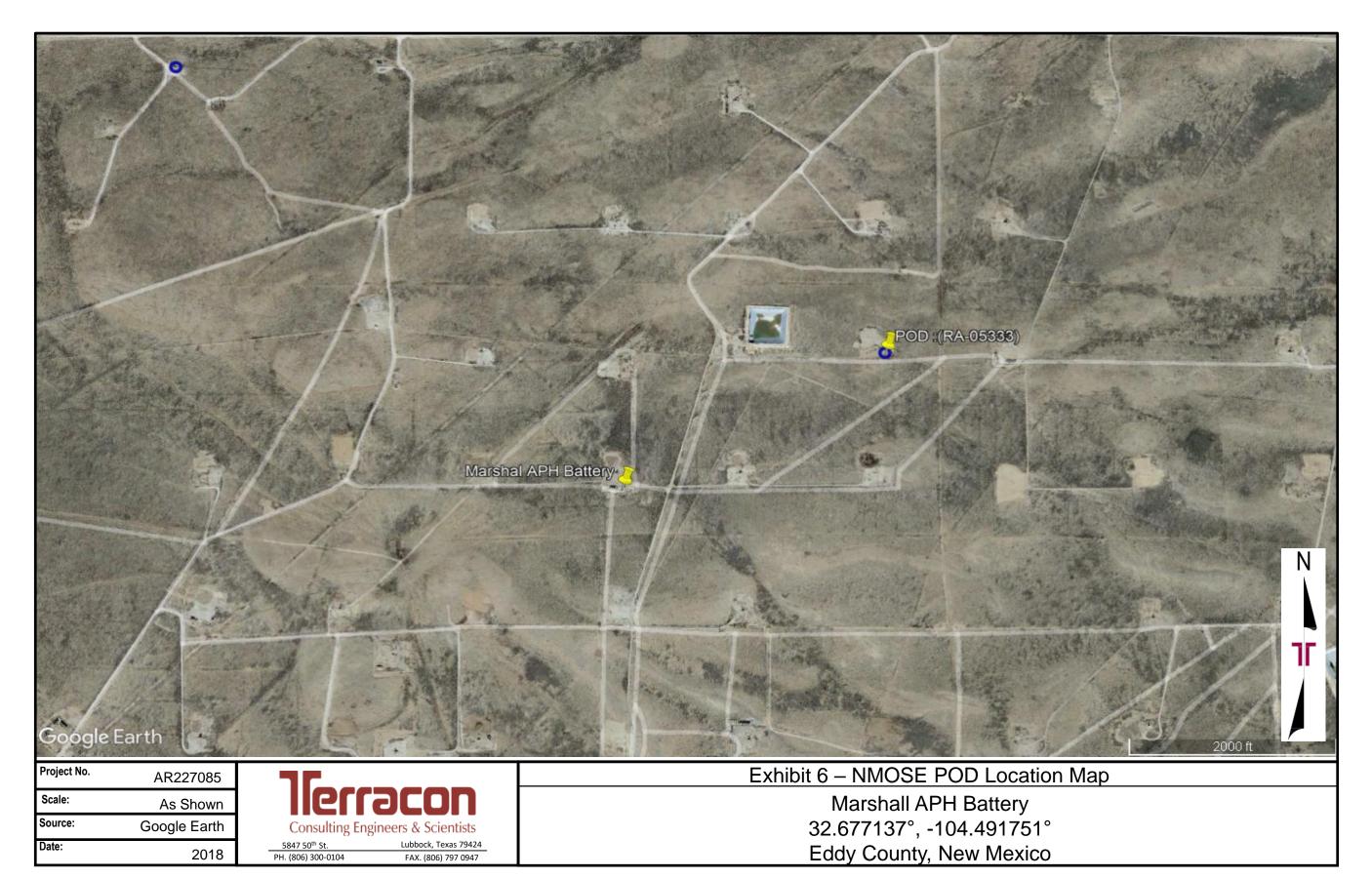
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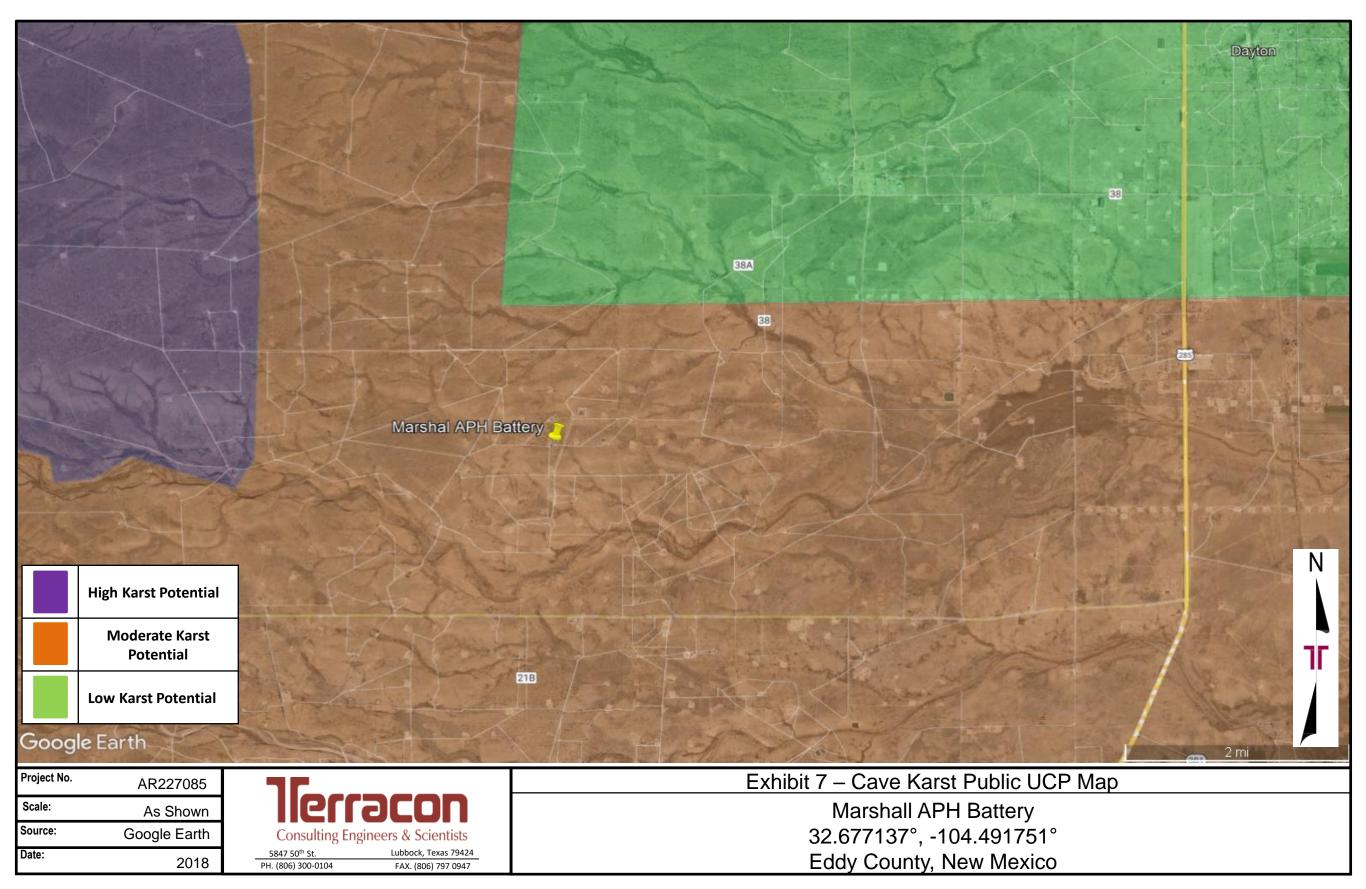








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APPENDIX B - TABLES, PROCEDURES, AND FIGURES

Table 1							
Closure Criteria for Soils Impacted by a Release							
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/L TDS	Constituent	Method*	Limit**				
	Chloride***	EPA 300.0 or SM4500 CI B	600 mg/kg				
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015 M	100 mg/kg				
<50 feet	втех	EPA SW-846 Method 8021B or 8260B	50 mg/kg				
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg				
	Chloride***	EPA 300.0 or SM4500 CI B	10,000 mg/kg				
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015 M	2,500 mg/kg				
51 feet – 100 feet	GRO+DRO	EPA SW-846 Method 8015 M	1,000 mg/kg				
31 1661 – 100 1661	втех	EPA SW-846 Method 8021B or 8260B	50 mg/kg				
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg				
	Chloride***	EPA 300.0 or SM4500 CI B	20,000 mg/kg				
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015 M	2,500 mg/kg				
>100 feet	TPH (GRO+DRO)	EPA SW-846 Method 8015 M	1,000 mg/kg				
>100 1661	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg				
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg				

PROCEDURE 1 - SOIL SAMPLING PROCEDURES

Soil sampling procedures are detailed as follows:

Soil Sampling Procedures for Laboratory Analysis

Soil Sampling Procedures

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

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

Analytical Methods

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

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

				TABLE 2					
		S	SOIL SAMPLE A	NALYTICAL RESULTS - BTEX ¹ , Chlorid Marshall APH Battery	e ² , and TPH ³				
Sample I.D. Sample Depth Sample Type Sample Date			Terracon Project No. AR227085 BTEX	Chloride		•	3015M) 1/kg)		
·	(bgs)			(mg/kg)	(mg/kg)	GRO	DRO	ORO	TOTAL
	I		ı	Release Investigation Samples		1	1	1	
HA-1 (0.5-1)	0.5' - 1'	Delineation	04/02/22	Benzene - 0.0015 Total BTEX - 0.0025	2,090	ND	137	ND	137
HA-1 (1.5-2)	1.5' - 2'	Delineation	04/02/22	Benzene - 0.00333 Total BTEX - 0.00921	2,740	ND	ND	ND	ND
HA-2 (0-0.5)	0' - 0.5'	Delineation	04/02/22	Benzene - 12.1 Total BTEX - 212	1,410	2,310	13,400	ND	15,700
HA-2 (0.5-1)	0.5' - 1'	Delineation	04/02/22	Benzene - 96.2 Total BTEX - 1,080	251	4,910	4,600	ND	9,510
HA-2 (1.5-2)	1.5' - 2'	Delineation	04/02/22	Benzene - 134 Total BTEX - NA	459	5,830	7,880	ND	13,700
HA-2 (3.5-4)	3.5' - 4'	Delineation	04/02/22	Benzene - 147 Total BTEX - NA	1,470	5,780	6,940	ND	12,700
HA-2 (4.5-5)	4.5' - 5'	Delineation	04/02/22	Benzene - <mark>41.5</mark> Total BTEX - NA	2,200	2,580	3,770	ND	6,350
HA-3 (0-0.5)	0' - 0.5'	Delineation	04/02/22	Benzene - 0.979 Total BTEX - 28.4	1,400	1,060	17,400	ND	18,500
HA-3 (0.5-1)	0.5' - 1'	Delineation	04/02/22	Benzene - ND Total BTEX - ND	2,690	ND	ND	ND	ND
HA-4 (0-0.5)	0' - 0.5'	Delineation	04/02/22	Benzene - 0.0121 Total BTEX - 0.0216	64.9	ND	ND	ND	ND
HA-5 (0-0.5)	0' - 0.5'	Delineation	04/02/22	Benzene - 0.00908 Total BTEX - 0.0152	544	ND	ND	ND	ND
			Supp	lemental Release Investigation Sample	s				
HA-2 (0-0.5)	0' - 0.5'	Delineation	05/05/22	Benzene - NA Total BTEX - NA	NA	1,380	8,300	970	10,700
HA-2 (1-2)	1' - 2'	Delineation	05/05/22	Benzene - NA Total BTEX - NA	NA	2,930	3,260	339	6,530
HA-2 (3-4)	3' - 4'	Delineation	05/05/22	Benzene - NA Total BTEX - NA	NA	3,510	2,330	ND	5,840
HA-2 (4-5)	4' - 5'	Delineation	05/05/22	Benzene - NA Total BTEX - NA	NA	1,410	1,070	93.5	2,570
HA-2 (5-6)	5' - 6'	Delineation	05/05/22	Benzene - NA Total BTEX - NA	NA	1,880	3,180	260	5,320
HA-2 (6-7)	6' - 7'	Delineation	05/05/22	Benzene - NA Total BTEX - NA	NA	93.8	387	ND	481
HA-2 (7-8)	7' - 8'	Delineation	05/05/22	Benzene - NA Total BTEX - NA	NA	87.1	143	ND	230
HA-2 (8-9)	8' - 9'	Delineation	05/05/22	Benzene - NA Total BTEX - NA	NA	54.7	58.4	ND	113
HA-2 (9-10)	9' - 10'	Delineation	05/05/22	Benzene - 0.00371 Total BTEX - 0.202	629	157	388	ND	545
				Benzene - 10					
NMOCD	Remediation and		ndards ⁵	Toluene - N/A					
Gr	(Applicable for S eater than 4 ft. Bel)	Ethylbenzene - N/A Total Xylenes - N/A	20,000	1,	,000	N/A	2,500
			nalyzed by EPA M	Total BTEX - 50					

< = Constituent not detected above the indicated laboratory SDL</p>
NA = Not Analyzed
N/A= Not Analyzed
N/A= No Applicable reporting standards
Bold denotes concentrations that exceed the New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards.

^{2.} Chloride — Chloride analyzed by EPA Method 300.
3. TPH = Total petroleum hydrocarbons analyzed by EPA Method 8015M (GRO/DRO/ORO)
* = NMOCD Remediation and Delineation Standards are proposed in 19.15.29.12 NMAC - N, 8/14/2018

Sample I.D.	Sample Depth	Sample Type	Sample Date	Terracon Project No. AR227085 BTEX	Chloride		•	8015M) a/kg)	
oumpio iibi	(bgs)	Campic Type	Gampio Bato	(mg/kg)	(mg/kg)	GRO			ТОТ
				Confimation Samples					
ww	0.5' - 1'	Composite	06/06/22	Benzene - 0.0106 Total BTEX - 0.237	5,750	NA	1,040	NA	1,0
NWW	0.5' - 1'	Composite	06/06/22	Benzene - ND Total BTEX - 0.0825	718	NA	114	NA	11
SWW	0.5' - 1'	Composite	06/06/22	Benzene - 0.0599 Total BTEX - 0.51	6,680	NA	4,880	NA	4,8
F-1	1' - 2'	Composite	06/06/22	Benzene - 0.00942 Total BTEX - 0.164	3,360	NA	465	NA	46
NW	0.5' - 1'	Composite	06/06/22	Benzene - ND Total BTEX - 0.0294	553	NA	234	NA	23
F-2	1' - 2'	Composite	06/06/22	Benzene - ND Total BTEX - ND	1,600	NA	NA	NA	N
SW	0.5' - 1'	Composite	06/06/22	Benzene - ND Total BTEX - 0.00428	817	NA	NA	NA	N
SEW-1	3' - 4'	Composite	06/06/22	Benzene - ND Total BTEX - ND	1,100	NA	NA	NA	N
SEW-2	0.5'-1'	Composite	06/06/22	Benzene - ND Total BTEX - ND	415	NA	NA	NA	N
EW	3' - 4'	Composite	06/06/22	Benzene - ND Total BTEX - ND	15.9	NA	NA	NA	N
NEW	3' - 4'	Composite	06/06/22	Benzene - ND Total BTEX - ND	78.5	NA	NA	NA	N
F-3	6' - 7'	Composite	06/06/22	Benzene - ND Total BTEX - ND	1,970	646	1,240	NA	1,8
F-3	8' - 9'	Composite	06/07/22	Benzene - 1.94 Total BTEX - 26.4	144	284	558	NA	84
SWW	0.5' - 1'	Composite	06/07/22	Benzene - ND Total BTEX - 1.87	91.5	ND	193	ND	19
WW	0.5' - 1'	Composite	06/07/22	Benzene - 0.0504 Total BTEX - 5.99	86.8	53.9	260	ND	31
	Remediation and (Applicable for S reater than 4 ft. Bel	Soils at Depths		Benzene - 10 Toluene - N/A Ethylbenzene - N/A Total Xylenes - N/A Total BTEX - 50	20,000	1,	,000	N/A	2,5
Chloride = Chlo TPH = Total per NMOCD Remo	t detected above the	A Method 300. s analyzed by EPA ion Standards are p	Method 8015M (GF roposed in 19.15.29						

APPENDIX C - PHOTOGRAPHIC LOG





PHOTO 1: View of site sign



PHOTO 2: View of site, far west end of impacts





PHOTO 3: View of site



PHOTO 4: View of site, area of pooling far east end of impacts





PHOTO 5: View of site, area of pooling



PHOTO 6: View of site, HA-1





PHOTO 7: View of site, HA-5



PHOTO 8: View of site, HA-3





PHOTO 9: View of site, HA-4



PHOTO 10: View of site, HA-2





PHOTO 11: View of completed excavation/remediation.



PHOTO 12: View of initial staging site for exhumed soils

Responsive ■ Resourceful ■ Reliable





PHOTO 13: View of final stockpiled soils on plastic

APPENDIX D - ANALYTICAL REPORT AND CHAIN OF CUSTODY



Environment Testing America

ANALYTICAL REPORT

Eurofins Lubbock 6701 Aberdeen Ave. Suite 8

Lubbock, TX 79424 Tel: (806)794-1296

Laboratory Job ID: 820-4042-1

Laboratory Sample Delivery Group: AR227085 Client Project/Site: Marshall APH Battery

Revision: 1

For:

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

Attn: Joseph Guesnier

JURAMER

Authorized for release by: 5/3/2022 10:14:12 AM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

Review your project results through

Total Access

Have a Question?



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 10/21/2022 11:17:43 AM

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.

1

3

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6

9

11

12

IR

Client: Terracon Consulting Eng & Scientists Project/Site: Marshall APH Battery

Laboratory Job ID: 820-4042-1

SDG: AR227085

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

5/3/2022 10:14:12 AM

Released to Imaging: 10/21/2022 11:17:43 AM

RAMER

Page 2 of 43

Client: Terracon Consulting Eng & Scientists Project/Site: Marshall APH Battery

Laboratory Job ID: 820-4042-1 SDG: AR227085

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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Job ID: 820-4042-1

SDG: AR227085

Qualifiers

GC/MS 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. Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

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.

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

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) 100 Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCI 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) Toxicity Equivalent Quotient (Dioxin) **TEQ**

TNTC Too Numerous To Count

Case Narrative

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Job ID: 820-4042-1 SDG: AR227085

Job ID: 820-4042-1

Laboratory: Eurofins Lubbock

Narrative

Job Narrative 820-4042-1

REVISION

The report being provided is a revision of the original report sent on 4/28/2022. The report (revision 1) is being revised due to Per client email, added samples 007-009 for all methods.

Report revision history

Receipt

The samples were received on 4/25/2022 1:53 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 -2.0°C

GC/MS VOA

Method 8260C: The matrix spike (MS) recoveries for preparation batch 860-50410 and analytical batch 860-50469 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260C: The following samples were diluted due to the nature of the sample matrix: HA-2 (0-0.5) (820-4042-5) and HA-2 (0.5-1) (820-4042-6). Elevated reporting limits (RLs) are provided.

Method 8260C: Surrogate Toluene-d8 (Surrogate) recovery for the following sample was outside control limits: HA-2 (0-0.5) (820-4042-5). Evidence of matrix interference is present.

Method 8260C: Surrogate Toluene-d8 (Surrogate) and 4-Bromofluorobenzene (Surrogate) recovery for the following sample was outside control limits: HA-2 (0.5-1) (820-4042-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8260C: The following sample was diluted due to the nature of the sample matrix: HA-3 (0-0.5) (820-4042-10). Elevated reporting limits (RLs) are provided. Sample has strong smell.

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: HA-2 (0-0.5) (820-4042-5) and HA-2 (0.5-1) (820-4042-6). Elevated reporting limits (RLs) are provided.

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: HA-2 (0-0.5) (820-4042-5), HA-2 (0.5-1) (820-4042-6) and HA-3 (0-0.5) (820-4042-10). Elevated reporting limits (RLs) are provided.

Method 8260C: The following samples were diluted due to it being grease and matrix(860-24846-A-1-A) and (860-24846-A-1-A MS). Elevated reporting limits (RL) are provided.

Method 8260C: The following samples were diluted due to the nature of the sample matrix: HA-2 (1.5-2) (820-4042-7), HA-2 (3.5-4) (820-4042-8) and HA-2 (4.5-5) (820-4042-9). Elevated reporting limits (RLs) are provided.

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: HA-2 (1.5-2) (820-4042-7), HA-2 (3.5-4) (820-4042-8) and (880-14096-A-1-B). Elevated reporting limits (RLs) are provided.

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

GC Semi VOA

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: HA-2 (0-0.5) (820-4042-5) and HA-3

Case Narrative

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Job ID: 820-4042-1 SDG: AR227085

Job ID: 820-4042-1 (Continued)

Laboratory: Eurofins Lubbock (Continued)

(0-0.5) (820-4042-10). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: The following samples were diluted due to the nature of the sample matrix: HA-2 (0-0.5) (820-4042-5) and HA-3 (0-0.5) (820-4042-10). Elevated reporting limits (RLs) are provided.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: HA-2 (0.5-1) (820-4042-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: The following sample was diluted due to the nature of the sample matrix: HA-2 (0.5-1) (820-4042-6). Elevated reporting limits (RLs) are provided.

Method 8015MOD NM: The following samples were diluted due to the nature of the sample matrix: HA-2 (1.5-2) (820-4042-7), HA-2 (3.5-4) (820-4042-8) and HA-2 (4.5-5) (820-4042-9). Elevated reporting limits (RLs) are provided.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: HA-2 (3.5-4) (820-4042-8) and HA-2 (4.5-5) (820-4042-9). 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: Spike compounds were inadvertently omitted during the extraction process for the matrix spike/matrix spike duplicate (MS/MSD); therefore, matrix spike recoveries are unavailable for preparation batch 860-50614 and analytical batch 860-50552. The associated laboratory control sample (LCS) met acceptance criteria.

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

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

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

Date Collected: 04/22/22 12:20 Date Received: 04/25/22 13:53

Sample Depth: 0.5 - 1

Job ID: 820-4042-1 SDG: AR227085

Lab Sample ID: 820-4042-1

Matrix: Solid

Method: 8260C - Volatile Organic Compounds by GC/MS Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 04/26/22 13:01 04/27/22 06:43 **Benzene** 0.00150 0.000998 mg/Kg Toluene <0.00499 U 0.00499 mg/Kg 04/26/22 13:01 04/27/22 06:43 04/26/22 13:01 04/27/22 06:43 **Ethylbenzene** 0.000998 mg/Kg 0.00100 m,p-Xylenes <0.00200 U 0.00200 mg/Kg 04/26/22 13:01 04/27/22 06:43 o-Xylene <0.000998 U 0.000998 mg/Kg 04/26/22 13:01 04/27/22 06:43 Xylenes, Total <0.00200 U 0.00200 mg/Kg 04/26/22 13:01 04/27/22 06:43 MTBE <0.00499 U 0.00499 mg/Kg 04/26/22 13:01 04/27/22 06:43 Surrogate %Recovery I imits Dil Fac Qualifier Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 04/26/22 13:01 04/27/22 06:43 56 - 150 94 4-Bromofluorobenzene (Surr) 93 68 - 152 04/26/22 13:01 04/27/22 06:43 Dibromofluoromethane (Surr) 109 53 - 142 04/26/22 13:01 04/27/22 06:43 Toluene-d8 (Surr) 94 70 - 130 04/26/22 13:01 04/27/22 06:43

Method: Total BTEX - Total BTEX Calculation Result Qualifier RL **MDL** Unit D Analyte Prepared Dil Fac Analyzed **Total BTEX** 0.00250 0.00200 mg/Kg 04/27/22 16:58

Method: 8015 NM - Diesel Range Organics (DRO) (GC) Result Qualifier MDL Unit Analyte RL D Prepared Analyzed Dil Fac **Total TPH** 87.7 137 04/27/22 18:22 mg/Kg

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac C6-C10 <87.7 U 87.7 mg/Kg 04/26/22 18:45 04/26/22 20:36 87.7 mg/Kg 04/26/22 18:45 04/26/22 20:36 Over C10-C28 137 04/26/22 18:45 04/26/22 20:36 Over C28-C36 <87.7 U 87.7 mg/Kg

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane (Surr) 112 65 - 13004/26/22 18:45 04/26/22 20:36 o-Terphenyl (Surr) 94 65 - 130 04/26/22 18:45 04/26/22 20:36

Method: 300.0 - Anions, Ion Chromatography Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 04/26/22 13:23 04/27/22 15:40 10 1 Chloride 2090 mg/Kg

Client Sample ID: HA-1 (1.5-2) Lab Sample ID: 820-4042-2 Date Collected: 04/22/22 12:25 Matrix: Solid Date Received: 04/25/22 13:53

Sample Depth: 1.5 - 2

Method: 8260C - Volat Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00333		0.00100		mg/Kg		04/26/22 13:01	04/27/22 06:20	1
Toluene	0.00588		0.00502		mg/Kg		04/26/22 13:01	04/27/22 06:20	1
Ethylbenzene	<0.00100	U F1	0.00100		mg/Kg		04/26/22 13:01	04/27/22 06:20	1
m,p-Xylenes	<0.00201	U F1	0.00201		mg/Kg		04/26/22 13:01	04/27/22 06:20	1
o-Xylene	<0.00100	U F1	0.00100		mg/Kg		04/26/22 13:01	04/27/22 06:20	1
Xylenes, Total	<0.00201	U	0.00201		mg/Kg		04/26/22 13:01	04/27/22 06:20	1
MTBE	<0.00502	U	0.00502		mg/Kg		04/26/22 13:01	04/27/22 06:20	1

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Client Sample ID: HA-1 (1.5-2) Date Collected: 04/22/22 12:25

Date Received: 04/25/22 13:53

Sample Depth: 1.5 - 2

Client	Samp	e R	esults
--------	------	-----	--------

Job ID: 820-4042-1 SDG: AR227085

Lab Sample ID: 820-4042-2

04/26/22 18:45 04/27/22 05:40

Matrix: Solid

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92	56 - 150	04/26/22 13:01	04/27/22 06:20	1
4-Bromofluorobenzene (Surr)	99	68 - 152	04/26/22 13:01	04/27/22 06:20	1
Dibromofluoromethane (Surr)	109	53 - 142	04/26/22 13:01	04/27/22 06:20	1
Toluene-d8 (Surr)	106	70 - 130	04/26/22 13:01	04/27/22 06:20	1

Method: Total BTEX - Total BTEX Calculation Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 0.00201 04/27/22 16:58 **Total BTEX** 0.00921 mg/Kg

Method: 8015 NM - Diesel Range Organics (DRO) (GC) Result Qualifier **MDL** Unit Analyte RL D Prepared Analyzed Dil Fac Total TPH <51.5 U 51.5 04/27/22 18:22 mg/Kg

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Dil Fac Analyte Result Qualifier RL MDL Unit D Prepared Analyzed C6-C10 <51.5 U 51.5 mg/Kg 04/26/22 18:45 04/27/22 05:40 Over C10-C28 <51.5 U 51.5 mg/Kg 04/26/22 18:45 04/27/22 05:40 Over C28-C36 <51.5 U 51.5 mg/Kg 04/26/22 18:45 04/27/22 05:40 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane (Surr) 95 65 - 130 04/26/22 18:45 04/27/22 05:40

Method: 300.0 - Anions, Ion Chromatography Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Chloride 2740 10.2 mg/Kg 04/26/22 13:23 04/27/22 15:49

65 - 130

108

Client Sample ID: HA-2 (0-0.5) Lab Sample ID: 820-4042-5 **Matrix: Solid**

Date Collected: 04/22/22 12:40 Date Received: 04/25/22 13:53

Sample Depth: 0 - 0.5

o-Terphenyl (Surr)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MTBE	<0.125	U	0.125		mg/Kg		04/26/22 13:01	04/27/22 08:16	25
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		<u>56 - 150</u>				04/26/22 13:01	04/27/22 08:16	25
4-Bromofluorobenzene (Surr)	115		68 - 152				04/26/22 13:01	04/27/22 08:16	25
Dibromofluoromethane (Surr)	88		53 - 142				04/26/22 13:01	04/27/22 08:16	25
Toluene-d8 (Surr)	134	S1+	70 - 130				04/26/22 13:01	04/27/22 08:16	25

Method: 8260C - Volatile O	rganic Compo	unds by G	C/MS - DL						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	12.1		0.500		mg/Kg		04/26/22 13:01	04/27/22 11:41	500
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		56 - 150				04/26/22 13:01	04/27/22 11:41	500
4-Bromofluorobenzene (Surr)	102		68 - 152				04/26/22 13:01	04/27/22 11:41	500
Dibromofluoromethane (Surr)	93		53 - 142				04/26/22 13:01	04/27/22 11:41	500
Toluene-d8 (Surr)	108		70 - 130				04/26/22 13:01	04/27/22 11:41	500

Matrix: Solid

Lab Sample ID: 820-4042-5

Client: Terracon Consulting Eng & Scientists Job ID: 820-4042-1 Project/Site: Marshall APH Battery SDG: AR227085

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

Date Collected: 04/22/22 12:40 Date Received: 04/25/22 13:53

Sample Depth: 0 - 0.5

Analyte	Result Q	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	50.4		25.0		mg/Kg		04/26/22 13:01	04/27/22 14:28	5000
Ethylbenzene	63.0		5.00		mg/Kg		04/26/22 13:01	04/27/22 14:28	5000
m,p-Xylenes	58.4		10.0		mg/Kg		04/26/22 13:01	04/27/22 14:28	5000
o-Xylene	28.1		5.00		mg/Kg		04/26/22 13:01	04/27/22 14:28	5000
Xylenes, Total	86.5		10.0		mg/Kg		04/26/22 13:01	04/27/22 14:28	5000
Surrogate	%Recovery Q	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		56 - 150				04/26/22 13:01	04/27/22 14:28	5000
4-Bromofluorobenzene (Surr)	96		68 - 152				04/26/22 13:01	04/27/22 14:28	5000
Dibromofluoromethane (Surr)	95		53 - 142				04/26/22 13:01	04/27/22 14:28	5000
Toluene-d8 (Surr)	97		70 - 130				04/26/22 13:01	04/27/22 14:28	5000

Method: Total BTEX - Total BTE	X Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	212		10.0		mg/Kg			04/27/22 16:58	1

	Method: 8015 NM - Diesel Ra	inge Organics (DRO) (GC)					
	Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
l	Total TPH	15700	517	mg/Kg			04/27/22 18:22	1

Method: 8015B NM - Dies	sel Range Organ	ics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	2310		517		mg/Kg		04/26/22 18:45	04/26/22 20:55	10
Over C10-C28	13400		517		mg/Kg		04/26/22 18:45	04/26/22 20:55	10
Over C28-C36	<517	U	517		mg/Kg		04/26/22 18:45	04/26/22 20:55	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	154	S1+	65 - 130				04/26/22 18:45	04/26/22 20:55	10
o-Terphenyl (Surr)	277	S1+	65 - 130				04/26/22 18:45	04/26/22 20:55	10

Method: 300.0 - Anions, Ion C	hromatography						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1410	10.0	mg/Kg		04/26/22 13:23	04/27/22 15:57	1

Client Sample ID: HA-2 (0.5-1) Lab Sample ID: 820-4042-6 Date Collected: 04/22/22 12:45 Matrix: Solid Date Received: 04/25/22 13:53

Sample Depth: 0.5 - 1

Analyte	Result	Qualifier	RL	MDL Uni	it D	Prepared	Analyzed	Dil Fac
MTBE	<0.126	U	0.126	mg/	g/Kg	04/26/22 13:01	04/27/22 08:40	25
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		56 - 150			04/26/22 13:01	04/27/22 08:40	25
4-Bromofluorobenzene (Surr)	160	S1+	68 - 152			04/26/22 13:01	04/27/22 08:40	25
Dibromofluoromethane (Surr)	83		53 - 142			04/26/22 13:01	04/27/22 08:40	25
Toluene-d8 (Surr)	449	S1+	70 - 130			04/26/22 13:01	04/27/22 08:40	25

Matrix: Solid

Client Sample Results

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

SDG: AR227085 Client Sample ID: HA-2 (0.5-1) Lab Sample ID: 820-4042-6

Date Collected: 04/22/22 12:45 Date Received: 04/25/22 13:53

Sample Depth: 0.5 - 1

Ethylbenzene	Dil Fac	Analyzed	Prepared	D	Unit	MDL	RL	Qualifier	Result	Analyte
March Marc	2000	04/27/22 12:04	04/26/22 13:01		mg/Kg		2.01		96.2	Benzene
Name	1 2000	04/27/22 12:04	04/26/22 13:01		mg/Kg		2.01		252	Ethylbenzene
Surrogate %Recovery Qualiffer Limits Prepared Analyzed Analyzed	1 2000	04/27/22 12:04	04/26/22 13:01		mg/Kg		4.02		212	m,p-Xylenes
Surrogate %Recovery Qualifier Limits 56.150 04/26/22 13:01 04/27/22 12:01 04/26/22 13:01 04/27/22 12:01 04/26/22 13:01 04/27/22 12:01 04/26/22 13:01 04/27/22 12:01 04/26/22 13:01 04/27/22 12:01 04/26/22 13:01 04/27/22 12:01 04/26/22 13:01 04/27/22 12:01 04/26/22 13:01 04/27/22 12:01 04/26/22 13:01 04/27/22 12:01 04/26/22 13:01 04/27/22 12:01 04/26/22 13:01 04/27/22 12:01 04/26/22 13:01 04/27/22 12:01 04/27/22 12:01 04/27/22 12:01 04/27/22 12:01 04/27/22 12:01 04/27/22 13:01 04/27/22 14:01 04/26/22 13:01 04/26/22 13:01 0	2000	04/27/22 12:04	04/26/22 13:01		mg/Kg		2.01		80.4	o-Xylene
1,2-Dichloroethane-d4 (Surr)	1 2000	04/27/22 12:04	04/26/22 13:01		mg/Kg		4.02		292	Xylenes, Total
### A-Bromofluorobenzene (Surr)	Dil Fac	Analyzed	Prepared				Limits	Qualifier	%Recovery	Surrogate
Dibromofluoromethane (Surr) 96 53 - 142 04/26/22 13:01 04/27/22 12: Toluene-d8 (Surr) 104 70 - 130 04/26/22 13:01 04/27/22 12: Toluene-d8 (Surr) 104 70 - 130 04/26/22 13:01 04/27/22 12: Toluene-d8 (Surr) 104 70 - 130 04/26/22 13:01 04/27/22 12: Toluene-d8 (Surr) 104 50.3 mg/Kg 04/26/22 13:01 04/27/22 14: Toluene 444 50.3 mg/Kg 04/26/22 13:01 04/27/22 14: Toluene-d8 (Surr) 100 68 - 152 04/26/22 13:01 04/27/22 14: Toluene-d8 (Surr) 95 53 - 142 04/26/22 13:01 04/27/22 14: Toluene-d8 (Surr) 99 70 - 130 04/26/22 13:01 04/27/22 14: Toluene-d8 (Surr) 99 70 - 130 04/26/22 13:01 04/27/22 14: Toluene-d8 (Surr) 99 70 - 130 04/26/22 13:01 04/27/22 14: Toluene-d8 (Surr) 99 70 - 130 04/26/22 13:01 04/27/22 14: Toluene-d8 (Surr) 99 70 - 130 04/26/22 13:01 04/27/22 14: Toluene-d8 (Surr) 99 70 - 130 04/26/22 13:01 04/27/22 14: Toluene-d8 (Surr) 99 70 - 130 04/26/22 13:01 04/27/22 14: Toluene-d8 (Surr) 99 70 - 130 04/26/22 13:01 04/27/22 14: Toluene-d8 (Surr) 99 70 - 130 04/26/22 13:01 04/27/22 14: Toluene-d8 (Surr) 04/26/22 13: T	2000	04/27/22 12:04	04/26/22 13:01				56 - 150		84	1,2-Dichloroethane-d4 (Surr)
Method: 8260C - Volatile Organic Compounds by GC/MS - DL2 Analyte Result Qualifier RL MDL Unit Method: 8260C Method: 8260C - Volatile Organic Compounds by GC/MS - DL2 Analyte Result Qualifier RL MDL Unit mg/Kg December Method: 8260C - Volatile Organic Compounds Method: 8260C - Volatile Organic Com	2000	04/27/22 12:04	04/26/22 13:01				68 - 152		97	4-Bromofluorobenzene (Surr)
Method: 8260C - Volatile Organic Compounds by GC/MS - DL2 Analyte Result Qualifier RL MDL mg/Kg D Prepared O4/26/22 13:01 Analyzed O4/27/22 14:01 Analyzed McHod: Total BTEX - Total BTEX Calculation Result Qualifier RL MDL Unit Mg/Kg D Prepared McHod: Malyzed O4/27/22 16:04 Analyzed McHod: S015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier Result Qualifier Result Qualifier Result Qualifier Result Qualifier Result Qualifier RL MDL Unit Mg/Kg D Prepared Malyzed O4/26/22 18:45 Analyzed O4/26/22 18:45 O4/26/22 18:45 O4/26/22 18:45 O4/26/22 20:04/26/22 20:04/26/22 20:04/26/22 20:04/26/22 18:45 O4/26/22 18:45 O4/26/22 18:45 O4/26/22 18:45 O4/26/22 20:04/26/22 20:04/26/22 20:04/26/22 18:45 O4/26/22 18:45 O4/26/22 18:45 O4/26/22 18:45 O4/26/22 20:04/26/22 20:04/26/22 20:04/26/22 20:04/26/22 18:45 O	2000	04/27/22 12:04	04/26/22 13:01				53 - 142		96	Dibromofluoromethane (Surr)
Analyte Result Qualifier RL MDL Unit D Prepared Analyzed 04/26/22 13:01 04/27/22 14:	2000	04/27/22 12:04	04/26/22 13:01				70 - 130		104	Toluene-d8 (Surr)
Toluene							C/MS - DL2	ınds by G	anic Compou	Method: 8260C - Volatile Org
Surrogate %Recovery Qualifier Limits Description Limits Description De	Dil Fac	Analyzed	Prepared	D	Unit	MDL	RL	Qualifier	Result	Analyte
1,2-Dichloroethane-d4 (Surr) 102 56 - 150 04/26/22 13:01 04/27/22 14:45 4-Bromofluorobenzene (Surr) 100 68 - 152 04/26/22 13:01 04/27/22 14:45 Dibromofluoromethane (Surr) 95 53 - 142 04/26/22 13:01 04/27/22 14:00 Toluene-d8 (Surr) 99 70 - 130 04/26/22 13:01 04/27/22 14:00 Method: Total BTEX - Total BTEX Calculation Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Total BTEX 1080 4.02 mg/Kg 04/27/22 16:00 04/27/22 16:00 Method: 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed C6-C10 4910 499 mg/Kg 04/26/22 18:45 04/26/22 20:04/26/22 20:04/26/22 20:04/26/22	10000	04/27/22 14:48	04/26/22 13:01		mg/Kg		50.3		444	Toluene
4-Bromofiluorobenzene (Surr) 100 68 - 152 04/26/22 13:01 04/27/22 14: Dibromofiluoromethane (Surr) 95 53 - 142 04/26/22 13:01 04/27/22 14: Toluene-d8 (Surr) 99 70 - 130 04/26/22 13:01 04/27/22 14: Method: Total BTEX - Total BTEX Calculation Analyte Result Qualifier RL MDL Unit D Prepared O4/27/22 16: Method: 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit D Prepared O4/27/22 18: Method: 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit D O4/27/22 18: Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit D O4/27/22 18: Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit D O4/26/22 18:45 04/26/22 18:45 04/26/22 20: Over C10-C28 4600 499 mg/Kg 04/26/22 18:45 04/26/22 20: Over C28-C36 499 U 499 mg/Kg 04/26/22 18:45 04/26/22 20: Surrogate %Recovery Qualifier Limits Prepared Analyzed O4/26/22 18:45 04/26/22 20: O-Terphenyl (Surr) 137 S1+ 65-130 04/26/22 18:45 04/26/22 20: O-Terphenyl (Surr) 142 S1+ 65-130 04/26/22 18:45 04/26/22 20: Method: 300.0 - Anions, Ion Chromatography	Dil Fac	Analyzed	Prepared				Limits	Qualifier	%Recovery	Surrogate
Dibromofiluoromethane (Surr) 95 53 - 142 04/26/22 13:01 04/27/22 14:00	10000	04/27/22 14:48	04/26/22 13:01				56 - 150		102	1,2-Dichloroethane-d4 (Surr)
Method: Total BTEX - Total BTEX Calculation Analyte Result Qualifier RL MDL Unit D Prepared Analyzed O4/27/22 18:15	3 10000	04/27/22 14:48	04/26/22 13:01				68 - 152		100	4-Bromofluorobenzene (Surr)
Method: Total BTEX - Total BTEX Calculation Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Total BTEX 1080 4.02 mg/Kg 04/27/22 16: Method: 8015 NM - Diesel Range Organics (DRO) (GC) MDL Unit D Prepared Analyzed Total TPH 9510 499 mg/Kg 04/27/22 18: Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed C6-C10 4910 499 mg/Kg 04/26/22 18:45 04/26/22 20: Over C10-C28 4600 499 mg/Kg 04/26/22 18:45 04/26/22 20: Over C28-C36 <499	3 10000	04/27/22 14:48	04/26/22 13:01				53 - 142		95	Dibromofluoromethane (Surr)
Analyte Result Qualifier RL MDL Unit D Prepared O4/27/22 16:: Method: 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed O4/27/22 18:: Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit D Prepared O4/27/22 18:: Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit D Prepared O4/26/22 18:45 O4/26/22 20:: Over C10	3 10000	04/27/22 14:48	04/26/22 13:01				70 - 130		99	Toluene-d8 (Surr)
Method: 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed								tion	TEX Calculat	Method: Total BTEX - Total B
Method: 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Total TPH 9510 499 mg/Kg 04/27/22 18: Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed C6-C10 4910 499 mg/Kg 04/26/22 18:45 04/26/22 20: Over C10-C28 4600 499 mg/Kg 04/26/22 18:45 04/26/22 20: Over C28-C36 <499	Dil Fac	Analyzed	Prepared	_ D	Unit	MDL		Qualifier	Result	Analyte
Result Qualifier RL MDL Unit D Prepared Analyzed Method: 8015B NM - Diesel Range Organics (DRO) (GC)	3 1	04/27/22 16:58			mg/Kg		4.02		1080	Total BTEX
Method: 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier RL MDL Unit D Prepared Mg/Kg Analyzed Analyzed Analyzed O4/26/22 18:45 O4/26/22 18:45 O4/26/22 20: O4/26/22 18:45 O4/26/22 18:45 O4/26/22 20: O4/26/22 18:45 O4/26/22 18:45 O4/26/22 20: O4/26/22 18:45 O4/26/22 20: O4/26/22 20: O4/26/22 18:45 O4/26/22 18:45 O4/26/22 20: O4/26/22 20: O4/26/22 18:45 O4/26/22 18:45 O4/26/22 20: O4/26/22 20: O4/26/22 18:45 O4/26/22 18:45 O4/26/22 20: O4/26/22 20: O4/26/22 20: O4/26/22 20: O4/26/22 18:45 O4/26/22 18:45 O4/26/22 20: O4/26/22 20: O4/26/22 20: O4/26/22 20: O4/26/22 20: O4/26/22 20: O4/26/22 18:45 Method: 300.0 - Anions, Ion Chromatography Anions, Ion Chromatography Anions, Ion Chromatography				_			•		•	
Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed C6-C10 4910 499 mg/Kg 04/26/22 18:45 04/26/22 20: Over C10-C28 4600 499 mg/Kg 04/26/22 18:45 04/26/22 20: Over C28-C36 <499	Dil Fac		Prepared	_ D		MDL		Qualifier		
Analyte Result C6-C10 Qualifier RL MDL MDL MDL MDL MDL MDL MDL MDL MDL MD	2 1	04/27/22 18:22			mg/Kg		499		9510	Total TPH
C6-C10 4910 499 mg/Kg 04/26/22 18:45 04/26/22 20: Over C10-C28 4600 499 mg/Kg 04/26/22 18:45 04/26/22 20: Over C28-C36 <499 U 499 mg/Kg 04/26/22 18:45 04/26/22 20: Surrogate %Recovery Qualifier Limits Prepared Analyzed 1-Chlorooctane (Surr) 137 S1+ 65 - 130 04/26/22 18:45 04/26/22 20: o-Terphenyl (Surr) 142 S1+ 65 - 130 04/26/22 18:45 04/26/22 20: Method: 300.0 - Anions, Ion Chromatography	Dil For	Amalumad	Dromored	_	11:4	MDI	• •			
Over C10-C28 4600 499 mg/Kg 04/26/22 18:45 04/26/22 20: Over C28-C36 <499 U	Dil Fac					MIDL		Quaimer		
Over C28-C36 <499 U 499 mg/Kg 04/26/22 18:45 04/26/22 20: Surrogate %Recovery [1:0] Limits [1:0] Prepared [0:0] Analyzed [0:0] 1-Chlorooctane (Surr) 137 S1+ 65-130 65-130 04/26/22 18:45 04/26/22 20: 0-Terphenyl (Surr) 142 S1+ 65-130 04/26/22 18:45 04/26/22 20: Method: 300.0 - Anions, Ion Chromatography										
Surrogate %Recovery Qualifier Limits Prepared Analyzed 1-Chlorooctane (Surr) 137 S1+ 65 - 130 04/26/22 18:45 04/26/22 20: o-Terphenyl (Surr) 142 S1+ 65 - 130 04/26/22 18:45 04/26/22 20: Method: 300.0 - Anions, lon Chromatography										
1-Chlorooctane (Surr) 137 S1+ 65 - 130 04/26/22 18:45 04/26/22 20: o-Terphenyl (Surr) 142 S1+ 65 - 130 04/26/22 18:45 04/26/22 20: Method: 300.0 - Anions, Ion Chromatography	3 10	04/20/22 20:16	04/20/22 18:45		mg/kg		499	U	<499	Over 028-030
o-Terphenyl (Surr) 142 S1+ 65 - 130 04/26/22 18:45 04/26/22 20: Method: 300.0 - Anions, Ion Chromatography	Dil Fac		<u> </u>				Limits		_ <u> </u>	Surrogate
Method: 300.0 - Anions, Ion Chromatography	5 10	04/26/22 20:16	04/26/22 18:45				65 - 130			1-Chlorooctane (Surr)
	5 10	04/26/22 20:16	04/26/22 18:45				65 - 130	S1+	142	o-Terphenyl (Surr)
Analyte Result Qualifier RI MDI Unit D Prepared Analyzed								phy	Chromatogra	Method: 300.0 - Anions, Ion (
Analyte Result Qualifier RE INDE Office De l'repareu Analyzeu	Dil Fac	Analyzed	Prepared	D	Unit	MDL	RL	Qualifier	Result	Analyte

Eurofins Lubbock

04/26/22 13:23 04/27/22 16:06

10.1

mg/Kg

251

Chloride

Client: Terracon Consulting Eng & Scientists

Method: 8260C - Volatile Organic Compounds by GC/MS

Project/Site: Marshall APH Battery

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

Date Collected: 04/22/22 12:50 Date Received: 04/25/22 13:53

Sample Depth: 1.5 - 2

Job ID: 820-4042-1 SDG: AR227085

Lab Sample ID: 820-4042-7

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	134		1.99		mg/Kg		04/28/22 10:08	04/28/22 19:13	2000
Ethylbenzene	169		1.99		mg/Kg		04/28/22 10:08	04/28/22 19:13	2000
m,p-Xylenes	138		3.98		mg/Kg		04/28/22 10:08	04/28/22 19:13	2000
o-Xylene	58.7		1.99		mg/Kg		04/28/22 10:08	04/28/22 19:13	2000
Xylenes, Total	197		3.98		mg/Kg		04/28/22 10:08	04/28/22 19:13	2000
MTBE	<9.96	U	9.96		mg/Kg		04/28/22 10:08	04/28/22 19:13	2000
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	99		56 - 150				04/28/22 10:08	04/28/22 19:13	2000
4-Bromofluorobenzene (Surr)	96		68 - 152				04/28/22 10:08	04/28/22 19:13	200
			53 - 142				04/28/22 10:08	04/28/22 19:13	200
Dibromofluoromethane (Surr)	92		JJ - 172						
Dibromofluoromethane (Surr) Toluene-d8 (Surr) Method: 8260C - Volatile O	98 rganic Compo	_	70 - 130 C/MS - DL				04/28/22 10:08	04/28/22 19:13	
Toluene-d8 (Surr) Method: 8260C - Volatile O	98 rganic Compo	_	70 - 130 C/MS - DL						
Toluene-d8 (Surr) Method: 8260C - Volatile O Analyte	98 rganic Compo	unds by G Qualifier	70 - 130 C/MS - DL RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fa
Toluene-d8 (Surr) Method: 8260C - Volatile O Analyte	98 rganic Compo	_	70 - 130 C/MS - DL	MDL	Unit mg/Kg	<u>D</u>	Prepared		Dil Fa
Toluene-d8 (Surr) Method: 8260C - Volatile O Analyte Toluene	98 rganic Compo	Qualifier	70 - 130 C/MS - DL RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fa
Toluene-d8 (Surr) Method: 8260C - Volatile O Analyte Toluene Surrogate	rganic Compo Result 473	Qualifier	70 - 130 C/MS - DL RL 24.9	MDL		<u>D</u>	Prepared 04/28/22 10:08	Analyzed 04/29/22 19:34 Analyzed	Dil Fac
Toluene-d8 (Surr) Method: 8260C - Volatile O Analyte Toluene Surrogate 1,2-Dichloroethane-d4 (Surr)	rganic Compo Result 473 %Recovery	Qualifier	70 - 130 C/MS - DL RL 24.9 Limits	MDL		<u>D</u>	Prepared 04/28/22 10:08 Prepared 04/28/22 10:08	Analyzed 04/29/22 19:34 Analyzed	Dil Fa 5000 Dil Fa 5000
Method: 8260C - Volatile O Analyte Toluene Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr)	rganic Compose Result 473 %Recovery 106	Qualifier	70 - 130 C/MS - DL RL 24.9 Limits 56 - 150	MDL		<u>D</u>	Prepared 04/28/22 10:08 Prepared 04/28/22 10:08 04/28/22 10:08	Analyzed 04/29/22 19:34 Analyzed 04/29/22 19:34	Dil Fa 500 Dil Fa 500 500
Method: 8260C - Volatile O Analyte Toluene Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Dibromofluoromethane (Surr)	798 Tiganic Composition Result 473	Qualifier	70 - 130 C/MS - DL RL 24.9 Limits 56 - 150 68 - 152	MDL		<u>D</u>	Prepared 04/28/22 10:08 Prepared 04/28/22 10:08 04/28/22 10:08 04/28/22 10:08	Analyzed 04/29/22 19:34 Analyzed 04/29/22 19:34 04/29/22 19:34	Dil Fa 500 Dil Fa 500 500
Toluene-d8 (Surr)	798 rganic Comporation Result 473 %Recovery 106 97 88 94	Qualifier Qualifier	70 - 130 C/MS - DL RL 24.9 Limits 56 - 150 68 - 152 53 - 142 70 - 130	MDL		<u>D</u>	Prepared 04/28/22 10:08 Prepared 04/28/22 10:08 04/28/22 10:08 04/28/22 10:08	Analyzed 04/29/22 19:34 Analyzed 04/29/22 19:34 04/29/22 19:34 04/29/22 19:34	Dil Fac 5000 Dil Fac 5000 5000 5000
Toluene-d8 (Surr) Method: 8260C - Volatile O Analyte Toluene Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Dibromofluoromethane (Surr) Toluene-d8 (Surr)	78 rganic Compose Result 473 %Recovery 106 97 88 94 Range Organic	Qualifier Qualifier	70 - 130 C/MS - DL RL 24.9 Limits 56 - 150 68 - 152 53 - 142 70 - 130	MDL	mg/Kg	<u>D</u>	Prepared 04/28/22 10:08 Prepared 04/28/22 10:08 04/28/22 10:08 04/28/22 10:08	Analyzed 04/29/22 19:34 Analyzed 04/29/22 19:34 04/29/22 19:34 04/29/22 19:34	Dil Fac 5000 Dil Fac 5000 5000

Surrogate 1-Chlorooctane (Surr) o-Terphenyl (Surr)	%Recovery Qualifier 129 77	Limits 65 - 130 65 - 130			Prepared 04/29/22 12:01 04/29/22 12:01	Analyzed 05/02/22 11:19 05/02/22 11:19	20 20
Method: 300.0 - Anions, Ion C Analyte	Chromatography Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac

RL

1000

1000

1000

MDL Unit

mg/Kg

mg/Kg

mg/Kg

Prepared

04/29/22 12:01 05/02/22 11:19

04/29/22 12:01 05/02/22 11:19

04/29/22 12:01 05/02/22 11:19

Analyzed

Dil Fac

20

20

20

04/28/22 14:09 04/28/22 17:00 9.94 Chloride 459 mg/Kg Client Sample ID: HA-2 (3.5-4) Lab Sample ID: 820-4042-8 Date Collected: 04/22/22 12:55

Result Qualifier

5830

7880

<1000 U

Date Received: 04/25/22 13:53 Sample Depth: 3.5 - 4

Analyte

C6-C10

Over C10-C28

Over C28-C36

Method: 8260C - Volatile Organic Compounds by GC/MS									
Analyte	Result Qua	alifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac		
Benzene	147	2.00	mg/Kg		04/28/22 10:08	04/28/22 19:34	2000		
Ethylbenzene	169	2.00	mg/Kg		04/28/22 10:08	04/28/22 19:34	2000		
m,p-Xylenes	141	3.99	mg/Kg		04/28/22 10:08	04/28/22 19:34	2000		

Eurofins Lubbock

Matrix: Solid

Matrix: Solid

Client Sample Results

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

SDG: AR227085 Client Sample ID: HA-2 (3.5-4) Lab Sample ID: 820-4042-8

Date Collected: 04/22/22 12:55 Date Received: 04/25/22 13:53

	Sa	mple	Depth:	3.5 - 4
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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	58.0		2.00		mg/Kg		04/28/22 10:08	04/28/22 19:34	2000
Xylenes, Total	199		3.99		mg/Kg		04/28/22 10:08	04/28/22 19:34	2000
MTBE	<9.98	U	9.98		mg/Kg		04/28/22 10:08	04/28/22 19:34	2000
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		56 - 150				04/28/22 10:08	04/28/22 19:34	2000
4-Bromofluorobenzene (Surr)	99		68 - 152				04/28/22 10:08	04/28/22 19:34	2000
Dibromofluoromethane (Surr)	97		53 - 142				04/28/22 10:08	04/28/22 19:34	2000
Toluene-d8 (Surr)	99		70 - 130				04/28/22 10:08	04/28/22 19:34	2000

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	417		25.0		mg/Kg		04/28/22 10:08	04/29/22 19:55	5000
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		56 - 150				04/28/22 10:08	04/29/22 19:55	5000
4-Bromofluorobenzene (Surr)	93		68 - 152				04/28/22 10:08	04/29/22 19:55	5000
Dibromofluoromethane (Surr)	90		53 - 142				04/28/22 10:08	04/29/22 19:55	5000
Toluene-d8 (Surr)	97		70 - 130				04/28/22 10:08	04/29/22 19:55	5000

Method: 8015 NM - Diesel Rang	ge Organics (DRO) (GC)					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	12700	998	mg/Kg			04/27/22 18:22	1

Method: 8015B NM - Die Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	5780		998		mg/Kg		04/29/22 12:01	05/02/22 11:38	20
Over C10-C28	6940		998		mg/Kg		04/29/22 12:01	05/02/22 11:38	20
Over C28-C36	<998	U	998		mg/Kg		04/29/22 12:01	05/02/22 11:38	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	117		65 - 130				04/29/22 12:01	05/02/22 11:38	20
o-Terphenyl (Surr)	156	S1+	65 - 130				04/29/22 12:01	05/02/22 11:38	20

Method: 300.0 - Anions, Ion Ch	romatography					
Analyte	Result Qualifier	r RL	MDL Unit	D Prepared	Analyzed	Dil Fac
Chloride	1470	9.88	mg/Kg	04/28/22 14:09	04/28/22 17:14	1

Client Sample ID: HA-2 (4.5-5) Lab Sample ID: 820-4042-9 Date Collected: 04/22/22 13:00 **Matrix: Solid** Date Received: 04/25/22 13:53

Meth	od: 8260C -	Volatile O	rganic C	ompounds	by GC	/MS

inic Compounds b	by GC/MS				
Result Qualifie	er RL MDL	Unit D	Prepared	Analyzed	Dil Fac
41.5	1.99	mg/Kg	04/28/22 10:08	04/28/22 19:54	2000
149	9.94	mg/Kg	04/28/22 10:08	04/28/22 19:54	2000
85.6	1.99	mg/Kg	04/28/22 10:08	04/28/22 19:54	2000
73.1	3.98	mg/Kg	04/28/22 10:08	04/28/22 19:54	2000
29.4	1.99	mg/Kg	04/28/22 10:08	04/28/22 19:54	2000
103	3.98	mg/Kg	04/28/22 10:08	04/28/22 19:54	2000
	Result Qualifi 41.5 149 85.6 73.1 29.4	41.5 1.99 149 9.94 85.6 1.99 73.1 3.98 29.4 1.99	Result Qualifier RL MDL Unit D 41.5 1.99 mg/Kg 149 9.94 mg/Kg 85.6 1.99 mg/Kg 73.1 3.98 mg/Kg 29.4 1.99 mg/Kg	Result 41.5 Qualifier RL 1.99 MDL mg/Kg mg/Kg D 04/28/22 10:08 149 9.94 mg/Kg mg/Kg 04/28/22 10:08 85.6 1.99 mg/Kg mg/Kg 04/28/22 10:08 73.1 3.98 mg/Kg mg/Kg 04/28/22 10:08 29.4 1.99 mg/Kg mg/Kg 04/28/22 10:08	Result 41.5 Qualifier RL 99 MDL mg/Kg D 04/28/22 10:08 Prepared 04/28/22 19:54 Analyzed 04/28/22 19:54 149 9.94 mg/Kg 04/28/22 10:08 04/28/22 19:54 85.6 1.99 mg/Kg 04/28/22 10:08 04/28/22 19:54 73.1 3.98 mg/Kg 04/28/22 10:08 04/28/22 19:54 29.4 1.99 mg/Kg 04/28/22 10:08 04/28/22 19:54

Sample Depth: 4.5 - 5

04/29/22 12:01 05/02/22 12:01

Lab Sample ID: 820-4042-10

Matrix: Solid

Matrix: Solid

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery SDG: AR227085 Lab Sample ID: 820-4042-9

Client Sample ID: HA-2 (4.5-5)

Date Collected: 04/22/22 13:00 Date Received: 04/25/22 13:53

Sample Depth: 4.5 - 5

C6-C10

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
MTBE	<9.94	U	9.94		mg/Kg		04/28/22 10:08	04/28/22 19:54	2000	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	102		56 - 150				04/28/22 10:08	04/28/22 19:54	2000	
4-Bromofluorobenzene (Surr)	96		68 - 152				04/28/22 10:08	04/28/22 19:54	2000	
Dibromofluoromethane (Surr)	95		53 - 142				04/28/22 10:08	04/28/22 19:54	2000	
Toluene-d8 (Surr)	98		70 - 130				04/28/22 10:08	04/28/22 19:54	2000	

Method: 8015 NM - Die	sel Range Organics (DRO) (G0	C)						
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	6350	998		mg/Kg			04/27/22 18:22	1
Method: 8015B NM - Di	esel Range Organics (DRO) (GC) - RA						
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Over C10-C28	3770		998	mg/Kg	04/29/22 12:01	05/02/22 12:01	20
Over C28-C36	<998	U	998	mg/Kg	04/29/22 12:01	05/02/22 12:01	20
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
	70110001019	Qualifici	Lilling		i reparea	Analyzea	
1-Chlorooctane (Surr)		S1+	65 - 130			05/02/22 12:01	20

998

mg/Kg

Method: 300.0 - Anions, Ion C	hromatography						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2200	9.84	mg/Kg		04/28/22 14:09	04/28/22 17:28	1

Client Sample ID: HA-3 (0-0.5) Date Collected: 04/22/22 13:05

2580

Date Received: 04/25/22 13:53

Sample Depth: 0 - 0.5	
Method: 8260C - Volatile Organic Compounds by GC/MS	

Analyte	Result	Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
Benzene	0.979		0.0250	mg/Kg	04/26/22 13:01	04/27/22 11:17	25
Toluene	0.844		0.125	mg/Kg	04/26/22 13:01	04/27/22 11:17	25
MTBE	<0.125	U	0.125	mg/Kg	04/26/22 13:01	04/27/22 11:17	25
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		56 - 150		04/26/22 13:01	04/27/22 11:17	25
4-Bromofluorobenzene (Surr)	111		68 - 152		04/26/22 13:01	04/27/22 11:17	25
Dibromofluoromethane (Surr)	90		53 - 142		04/26/22 13:01	04/27/22 11:17	25
Toluene-d8 (Surr)	99		70 - 130		04/26/22 13:01	04/27/22 11:17	25
1,2-Dichloroethane-d4 (Surr)	84	Qualifici	56 - 150		04/26/22 13:01	04/27/22 11:17	2

Analyte	Result Q	ualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	5.94	0.200		mg/Kg		04/26/22 13:01	04/27/22 14:07	200
m,p-Xylenes	12.3	0.399		mg/Kg		04/26/22 13:01	04/27/22 14:07	200
o-Xylene	8.29	0.200		mg/Kg		04/26/22 13:01	04/27/22 14:07	200
Xylenes, Total	20.6	0.399		mg/Kg		04/26/22 13:01	04/27/22 14:07	200

Eurofins Lubbock

20

SDG: AR227085

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Client Sample ID: HA-3 (0-0.5)

Date Collected: 04/22/22 13:05 Date Received: 04/25/22 13:53

Sample Depth: 0 - 0.5

Lab Sample ID: 820-4042-10

Lab Sample ID: 820-4042-11

Matrix: Solid

Matrix: Solid

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103	56 - 150	04/26/22 13:01	04/27/22 14:07	200
4-Bromofluorobenzene (Surr)	99	68 - 152	04/26/22 13:01	04/27/22 14:07	200
Dibromofluoromethane (Surr)	95	53 - 142	04/26/22 13:01	04/27/22 14:07	200
Toluene-d8 (Surr)	97	70 - 130	04/26/22 13:01	04/27/22 14:07	200

Method: Total BTEX - Total BTEX Calculation Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 0.399 04/27/22 16:58 **Total BTEX** mg/Kg 28.4

Method: 8015 NM - Diesel Range Organics (DRO) (GC) **MDL** Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac 498 04/27/22 18:22 **Total TPH** 18500 mg/Kg

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier MDL Unit Analyte RL D Prepared Analyzed Dil Fac C6-C10 1060 498 mg/Kg 04/26/22 18:45 04/26/22 20:36 10 498 Over C10-C28 17400 mg/Kg 04/26/22 18:45 04/26/22 20:36 10 Over C28-C36 <498 498 mg/Kg 04/26/22 18:45 04/26/22 20:36 10

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane (Surr) 161 S1+ 65 - 130 04/26/22 18:45 04/26/22 20:36 10 o-Terphenyl (Surr) 337 S1+ 65 - 130 04/26/22 18:45 04/26/22 20:36 10

Method: 300.0 - Anions, Ion Chromatography Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Chloride 9.96 mg/Kg 04/26/22 13:23 04/27/22 16:15 1400 Client Sample ID: HA-3 (0.5-1)

Date Collected: 04/22/22 13:10 Date Received: 04/25/22 13:53

Sample Depth: 0.5 - 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000996	U	0.000996		mg/Kg		04/26/22 13:01	04/27/22 07:07	1
Toluene	<0.00498	U	0.00498		mg/Kg		04/26/22 13:01	04/27/22 07:07	1
Ethylbenzene	< 0.000996	U	0.000996		mg/Kg		04/26/22 13:01	04/27/22 07:07	1
m,p-Xylenes	<0.00199	U	0.00199		mg/Kg		04/26/22 13:01	04/27/22 07:07	1
o-Xylene	< 0.000996	U	0.000996		mg/Kg		04/26/22 13:01	04/27/22 07:07	1
Xylenes, Total	< 0.00199	U	0.00199		mg/Kg		04/26/22 13:01	04/27/22 07:07	1
MTBE	<0.00498	U	0.00498		mg/Kg		04/26/22 13:01	04/27/22 07:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		56 - 150				04/26/22 13:01	04/27/22 07:07	1
4-Bromofluorobenzene (Surr)	84		68 - 152				04/26/22 13:01	04/27/22 07:07	1
Dibromofluoromethane (Surr)	105		53 - 142				04/26/22 13:01	04/27/22 07:07	1
Toluene-d8 (Surr)	100		70 - 130				04/26/22 13:01	04/27/22 07:07	1
	I RTEY Calcula	tion							
Method: Total BTEX - Total	I DI LA Calcula								
Method: Iotal BTEX - Iotal Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

SDG: AR227085

Client Sample Results

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Client Sample ID: HA-3 (0.5-1) Lab Sample ID: 820-4042-11 **Matrix: Solid**

Date Collected: 04/22/22 13:10 Date Received: 04/25/22 13:53

Sample Depth: 0.5 - 1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			04/27/22 18:22	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.5	U	50.5		mg/Kg		04/26/22 18:45	04/27/22 06:00	1
Over C10-C28	<50.5	U	50.5		mg/Kg		04/26/22 18:45	04/27/22 06:00	1
Over C28-C36	<50.5	U	50.5		mg/Kg		04/26/22 18:45	04/27/22 06:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	100		65 - 130				04/26/22 18:45	04/27/22 06:00	1
o-Terphenyl (Surr)	113		65 - 130				04/26/22 18:45	04/27/22 06:00	1

	Method: 300.0 - Anions, Ion Ch	romatogra	phy							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	2690		9.82		mg/Kg		04/26/22 13:23	04/27/22 16:24	1
C	Client Sample ID: HA-4 (0-0).5)					L	ab Sample	D: 820-40	42-12

Client Sample ID: HA-4 (0-0.5)

Date Collected: 04/22/22 13:15

Date Received: 04/25/22 13:53

Sample Depth: 0 - 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0121		0.00101		mg/Kg		04/26/22 13:01	04/27/22 07:30	1
Toluene	0.00844		0.00503		mg/Kg		04/26/22 13:01	04/27/22 07:30	1
Ethylbenzene	0.00106		0.00101		mg/Kg		04/26/22 13:01	04/27/22 07:30	1
m,p-Xylenes	<0.00201	U	0.00201		mg/Kg		04/26/22 13:01	04/27/22 07:30	1
o-Xylene	<0.00101	U	0.00101		mg/Kg		04/26/22 13:01	04/27/22 07:30	1
Xylenes, Total	<0.00201	U	0.00201		mg/Kg		04/26/22 13:01	04/27/22 07:30	1
MTBE	<0.00503	U	0.00503		mg/Kg		04/26/22 13:01	04/27/22 07:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		56 - 150				04/26/22 13:01	04/27/22 07:30	1
4-Bromofluorobenzene (Surr)	101		68 - 152				04/26/22 13:01	04/27/22 07:30	1
Dibromofluoromethane (Surr)	103		53 - 142				04/26/22 13:01	04/27/22 07:30	1
Toluene-d8 (Surr)	99		70 - 130				04/26/22 13:01	04/27/22 07:30	1
Method: Total BTEX - Total	BTEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0216		0.00201		mg/Kg			04/27/22 16:58	1
Method: 8015 NM - Diesel F	Range Organic	s (DRO) (0	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			04/27/22 18:22	1
Method: 8015B NM - Diese	Range Organ	ics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.4	U	50.4		mg/Kg		04/26/22 18:45	04/27/22 06:19	1
Over C10-C28	<50.4	U	50.4		mg/Kg		04/26/22 18:45	04/27/22 06:19	1
Over C28-C36	<50.4	U	50.4		mg/Kg		04/26/22 18:45	04/27/22 06:19	1

Eurofins Lubbock

Matrix: Solid

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Lab Sample ID: 820-4042-12

Lab Sample ID: 820-4042-13

Matrix: Solid

Matrix: Solid

SDG: AR227085

Job ID: 820-4042-1

Client Sample ID: HA-4 (0-0.5) Date Collected: 04/22/22 13:15 Date Received: 04/25/22 13:53

Sample Depth: 0 - 0.5

Surrogate	%Recovery Qualifier	Limits	Prepared Analyzed	Dil Fac
1-Chlorooctane (Surr)	100	65 - 130	04/26/22 18:45 04/27/22 06:19	1
o-Terphenyl (Surr)	112	65 - 130	04/26/22 18:45 04/27/22 06:19	1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64.9		9.86	_	mg/Kg		04/26/22 13:23	04/27/22 16:33	1

Client Sample ID: HA-5 (0-0.5)

Date Collected: 04/22/22 13:20 Date Received: 04/25/22 13:53

Sample Depth: 0 - 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00908	-	0.000998		mg/Kg		04/26/22 13:01	04/27/22 07:53	1
Toluene	0.00612		0.00499		mg/Kg		04/26/22 13:01	04/27/22 07:53	1
Ethylbenzene	<0.000998	U	0.000998		mg/Kg		04/26/22 13:01	04/27/22 07:53	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg		04/26/22 13:01	04/27/22 07:53	1
o-Xylene	<0.000998	U	0.000998		mg/Kg		04/26/22 13:01	04/27/22 07:53	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg		04/26/22 13:01	04/27/22 07:53	1
MTBE	<0.00499	U	0.00499		mg/Kg		04/26/22 13:01	04/27/22 07:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		56 - 150				04/26/22 13:01	04/27/22 07:53	1

currogate	701 to 00 to 1 g	Quannon		. roparca	,u.y = 0 u	2
1,2-Dichloroethane-d4 (Surr)	103		56 - 150	04/26/22 13:01	04/27/22 07:53	1
4-Bromofluorobenzene (Surr)	98		68 - 152	04/26/22 13:01	04/27/22 07:53	1
Dibromofluoromethane (Surr)	110		53 - 142	04/26/22 13:01	04/27/22 07:53	1
Toluene-d8 (Surr)	103		70 - 130	04/26/22 13:01	04/27/22 07:53	1
<u> </u>						

wethou.	IOIAI DIEA -	IUIAI DIEA	Calculation
Analyte			Result Quali

Analyte	Result Qualifier	RL	MDL Unit	_ D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0152	0.00200	mg/Kg			04/27/22 16:58	1

Method: 8015 NM - Diesel Rang	ge Organics	(DRO)	(GC)
A I 4 .	D 14 . 4	A 1161	

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.7 U	50.7	mg/Kg			04/27/22 18:22	1

Method: 8015B NM - Diese	Range Organics	(DRO) (GC)
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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.7	U	50.7		mg/Kg		04/26/22 18:45	04/27/22 06:57	1
Over C10-C28	<50.7	U	50.7		mg/Kg		04/26/22 18:45	04/27/22 06:57	1
Over C28-C36	<50.7	U	50.7		mg/Kg		04/26/22 18:45	04/27/22 06:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	106		65 - 130	04/26/22 18:45	04/27/22 06:57	1
o-Terphenyl (Surr)	119		65 - 130	04/26/22 18:45	04/27/22 06:57	1

Method: 300.0 - Anions, Ion Chromatography

Analyte		Qualifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	544	9.96	mg/Kg		04/27/22 15:19	04/27/22 16:42	1

Surrogate Summary

Client: Terracon Consulting Eng & Scientists

Job ID: 820-4042-1 Project/Site: Marshall APH Battery SDG: AR227085

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid Prep Type: Total/NA

			Pe	ercent Surre	ogate Rec
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(56-150)	(68-152)	(53-142)	(70-130)
820-4042-1	HA-1 (0.5-1)	94	93	109	94
820-4042-2	HA-1 (1.5-2)	92	99	109	106
820-4042-2 MS	HA-1 (1.5-2)	96	103	107	106
820-4042-5	HA-2 (0-0.5)	98	115	88	134 S1+
820-4042-5 - DL	HA-2 (0-0.5)	85	102	93	108
820-4042-5 - DL2	HA-2 (0-0.5)	100	96	95	97
820-4042-6	HA-2 (0.5-1)	102	160 S1+	83	449 S1+
820-4042-6 - DL	HA-2 (0.5-1)	84	97	96	104
820-4042-6 - DL2	HA-2 (0.5-1)	102	100	95	99
820-4042-7	HA-2 (1.5-2)	99	96	92	98
820-4042-7 - DL	HA-2 (1.5-2)	106	97	88	94
820-4042-8	HA-2 (3.5-4)	102	99	97	99
820-4042-8 - DL	HA-2 (3.5-4)	106	93	90	97
820-4042-9	HA-2 (4.5-5)	102	96	95	98
820-4042-10	HA-3 (0-0.5)	84	111	90	99
820-4042-10 - DL	HA-3 (0-0.5)	103	99	95	97
820-4042-11	HA-3 (0.5-1)	99	84	105	100
820-4042-12	HA-4 (0-0.5)	105	101	103	99
820-4042-13	HA-5 (0-0.5)	103	98	110	103
860-24846-A-1-A MS	Matrix Spike	94	98	100	104
880-14096-A-1-B MS	Matrix Spike	97	100	101	100
LCS 860-50469/3	Lab Control Sample	99	102	109	100
LCS 860-50523/3	Lab Control Sample	100	97	103	99
LCS 860-50685/3	Lab Control Sample	98	99	103	98
LCS 860-50886/3	Lab Control Sample	102	100	105	100
LCSD 860-50469/4	Lab Control Sample Dup	94	97	109	101
LCSD 860-50523/4	Lab Control Sample Dup	101	96	104	101
LCSD 860-50685/4	Lab Control Sample Dup	95	100	101	100
LCSD 860-50886/4	Lab Control Sample Dup	103	99	102	97
MB 860-50469/9	Method Blank	99	91	112	94
MB 860-50523/7	Method Blank	102	98	98	97
MB 860-50685/9	Method Blank	98	97	95	96
500 000000		00	98	103	94

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

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

Matrix: Solid Prep Type: Total/NA

			Pe
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(65-130)	(65-130)
820-4042-1	HA-1 (0.5-1)	112	94
820-4042-2	HA-1 (1.5-2)	95	108
820-4042-5	HA-2 (0-0.5)	154 S1+	277 S1+
820-4042-6	HA-2 (0.5-1)	137 S1+	142 S1+

Surrogate Summary

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Job ID: 820-4042-1

SDG: AR227085

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

Matrix: Solid Prep Type: Total/NA

Lab Sample ID Client Sample ID (65-130) (65-130) 820-4042-7 - RA HA-2 (1.5-2) 129 77 820-4042-8 - RA HA-2 (3.5-4) 117 156 S1+ 820-4042-9 - RA HA-2 (4.5-5) 151 S1+ 147 S1+ 820-4042-10 HA-3 (0-0.5) 161 S1+ 337 S1+ 820-4042-11 HA-3 (0.5-1) 100 113 820-4042-12 HA-4 (0-0.5) 100 112 820-4042-12 MS HA-4 (0-0.5) 120 109 820-4042-13 HA-5 (0-0.5) 106 119 LCS 860-50481/2-A Lab Control Sample 115 117 LCS 860-50951/2-A Lab Control Sample Dup 122 114 LCSD 860-50951/3-A Lab Control Sample Dup 114 117 MB 860-509481/1-A Method Blank 100 112 MB 860-50951/1-A Method Blank 110 112	s)
820-4042-7 - RA	
820-4042-8 - RA	
820-4042-9 - RA	
820-4042-10 HA-3 (0-0.5) 161 S1+ 337 S1+ 820-4042-11 HA-3 (0.5-1) 100 113 820-4042-12 HA-4 (0-0.5) 100 112 820-4042-12 MS HA-4 (0-0.5) 120 109 820-4042-13 HA-5 (0-0.5) 106 119 LCS 860-50481/2-A Lab Control Sample 118 105 LCS 860-50951/2-A Lab Control Sample 115 117 LCSD 860-50481/3-A Lab Control Sample Dup 122 114 LCSD 860-50951/3-A Lab Control Sample Dup 114 117 MB 860-50481/1-A Method Blank 100 112	
820-4042-11 HA-3 (0.5-1) 100 113 820-4042-12 HA-4 (0-0.5) 100 112 820-4042-12 MS HA-4 (0-0.5) 120 109 820-4042-13 HA-5 (0-0.5) 106 119 LCS 860-50481/2-A Lab Control Sample 118 105 LCS 860-50951/2-A Lab Control Sample 115 117 LCSD 860-50481/3-A Lab Control Sample Dup 122 114 LCSD 860-50951/3-A Lab Control Sample Dup 114 117 MB 860-50481/1-A Method Blank 100 112	
820-4042-12 HA-4 (0-0.5) 100 112 820-4042-12 MS HA-4 (0-0.5) 120 109 820-4042-13 HA-5 (0-0.5) 106 119 LCS 860-50481/2-A Lab Control Sample 118 105 LCS 860-50951/2-A Lab Control Sample 115 117 LCSD 860-50481/3-A Lab Control Sample Dup 122 114 LCSD 860-50951/3-A Lab Control Sample Dup 114 117 MB 860-50481/1-A Method Blank 100 112	
820-4042-12 MS HA-4 (0-0.5) 120 109 820-4042-13 HA-5 (0-0.5) 106 119 LCS 860-50481/2-A Lab Control Sample 118 105 LCS 860-50951/2-A Lab Control Sample 115 117 LCSD 860-50481/3-A Lab Control Sample Dup 122 114 LCSD 860-50951/3-A Lab Control Sample Dup 114 117 MB 860-50481/1-A Method Blank 100 112	
820-4042-13 HA-5 (0-0.5) 106 119 LCS 860-50481/2-A Lab Control Sample 115 117 LCSD 860-50481/3-A Lab Control Sample Dup 122 114 LCSD 860-50951/3-A Lab Control Sample Dup 114 117 MB 860-50481/1-A Method Blank 100 112	
LCS 860-50481/2-A Lab Control Sample 118 105 LCS 860-50951/2-A Lab Control Sample 115 117 LCSD 860-50481/3-A Lab Control Sample Dup 122 114 LCSD 860-50951/3-A Lab Control Sample Dup 114 117 MB 860-50481/1-A Method Blank 100 112	
LCS 860-50951/2-A Lab Control Sample 115 117 LCSD 860-50481/3-A Lab Control Sample Dup 122 114 LCSD 860-50951/3-A Lab Control Sample Dup 114 117 MB 860-50481/1-A Method Blank 100 112	
LCSD 860-50481/3-A Lab Control Sample Dup 122 114 LCSD 860-50951/3-A Lab Control Sample Dup 114 117 MB 860-50481/1-A Method Blank 100 112	
LCSD 860-50951/3-A Lab Control Sample Dup 114 117 MB 860-50481/1-A Method Blank 100 112	
MB 860-50481/1-A Method Blank 100 112	
MB 860-50951/1-A Method Blank 112 112	
Surrogate Legend	
1CO = 1-Chlorooctane (Surr)	

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Client: Terracon Consulting Eng & Scientists Job ID: 820-4042-1 Project/Site: Marshall APH Battery

SDG: AR227085

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: 860-24846-A-1-A MS

Matrix: Solid

Analysis Batch: 50685

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 49788

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	29.2		25.3	48.26		mg/Kg		76	71 - 119	
Toluene	<2.53	U	25.3	26.45		mg/Kg		101	74 - 122	
Ethylbenzene	56.7	F1	25.3	70.45	F1	mg/Kg		54	80 - 123	
m,p-Xylenes	55.5	F1	25.3	68.73	F1	mg/Kg		52	78 - 127	
o-Xylene	17.7		25.3	38.66		mg/Kg		83	79 - 125	
MTBE	<2.53	U	25.3	25.86		mg/Kg		102	64 - 148	

MS MS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		56 - 150
4-Bromofluorobenzene (Surr)	98		68 - 152
Dibromofluoromethane (Surr)	100		53 - 142
Toluene-d8 (Surr)	104		70 - 130

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

Prep Type: Total/NA Prep Batch: 50410

Lab Sample ID: 820-4042-2 MS **Matrix: Solid**

Analysis Batch: 50469

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier D %Rec Limits Unit Benzene 0.00333 0.0502 0.03999 73 71 - 119 mg/Kg Toluene 0.00588 0.0502 0.04367 mg/Kg 75 74 - 122 Ethylbenzene <0.00100 UF1 0.0502 0.03969 F1 78 80 - 123 mg/Kg 0.0502 77 78 - 127 m,p-Xylenes <0.00201 UF1 0.03887 F1 mg/Kg o-Xylene <0.00100 UF1 0.0502 0.03938 F1 mg/Kg 78 79 - 125 MTBE <0.00502 U 0.0502 0.04475 89 mg/Kg 64 - 148

MS MS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		56 - 150
4-Bromofluorobenzene (Surr)	103		68 - 152
Dibromofluoromethane (Surr)	107		53 - 142
Toluene-d8 (Surr)	106		70 - 130

Client Sample ID: Method Blank

Prep Type: Total/NA

Analysis Batch: 50469

Matrix: Solid

Lab Sample ID: MB 860-50469/9

MB N	
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Analyte	Result (Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100 U	U	0.00100		mg/Kg			04/27/22 05:57	1
Toluene	<0.00500 l	U	0.00500		mg/Kg			04/27/22 05:57	1
Ethylbenzene	<0.00100 l	U	0.00100		mg/Kg			04/27/22 05:57	1
m,p-Xylenes	<0.00200 l	U	0.00200		mg/Kg			04/27/22 05:57	1
o-Xylene	<0.00100 l	U	0.00100		mg/Kg			04/27/22 05:57	1
Xylenes, Total	<0.00200 l	U	0.00200		mg/Kg			04/27/22 05:57	1
MTBE	<0.00500 l	U	0.00500		mg/Kg			04/27/22 05:57	1

MB MB

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1,2-Dichloroethane-d4 (Surr)	99		56 - 150		04/27/22 05:57	1
l	4-Bromofluorobenzene (Surr)	91		68 - 152	(04/27/22 05:57	1

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Job ID: 820-4042-1 SDG: AR227085

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-50469/9

Matrix: Solid

Analysis Batch: 50469

Client Sample ID: Method Blank

Prep Type: Total/NA

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	112		53 - 142		04/27/22 05:57	1
Toluene-d8 (Surr)	94		70 - 130		04/27/22 05:57	1

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 860-50469/3

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 50469** 0...!!... 0/ D - -

	Spike	LUS	LUS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	 0.0500	0.04468		mg/Kg		89	66 - 142	
Toluene	0.0500	0.04241		mg/Kg		85	74 - 130	
Ethylbenzene	0.0500	0.04380		mg/Kg		88	80 - 130	
m,p-Xylenes	0.0500	0.04209		mg/Kg		84	78 - 130	
o-Xylene	0.0500	0.04417		mg/Kg		88	79 - 130	
MTBE	0.0500	0.04534		mg/Kg		91	64 - 148	

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 99 56 - 150 4-Bromofluorobenzene (Surr) 102 68 - 152 Dibromofluoromethane (Surr) 109 53 - 142 Toluene-d8 (Surr) 100 70 - 130

Lab Sample ID: LCSD 860-50469/4 Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 50469

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier %Rec RPD **Analyte** Unit Limits Limit Benzene 0.0500 0.04495 mg/Kg 90 66 - 142 25 Toluene 0.0500 0.04501 90 74 - 130 25 mg/Kg 6 Ethylbenzene 0.0500 0.04520 mg/Kg 90 80 - 130 3 25 m,p-Xylenes 0.0500 0.04521 mg/Kg 90 78 - 130 25 o-Xylene 0.0500 0.04700 mg/Kg 94 79 - 130 6 25 MTBE 0.0500 0.05056 mg/Kg 101 64 - 148 25

LCSD LCSD %Recovery Qualifier Limits Surrogate 1,2-Dichloroethane-d4 (Surr) 94 56 - 150 97 68 - 152 4-Bromofluorobenzene (Surr) Dibromofluoromethane (Surr) 109 53 - 142 Toluene-d8 (Surr) 101 70 - 130

Lab Sample ID: MB 860-50523/7 Client Sample ID: Method Blank **Matrix: Solid**

Analysis Batch: 50523

	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg			04/27/22 13:19	1
Toluene	<0.00500	U	0.00500		mg/Kg			04/27/22 13:19	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg			04/27/22 13:19	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg			04/27/22 13:19	1
	Benzene Toluene Ethylbenzene	Analyte Result Benzene <0.00100 Toluene <0.00500 Ethylbenzene <0.00100	Analyte Result Qualifier Benzene <0.00100 U Toluene <0.00500 U Ethylbenzene <0.00100 U	Analyte Result Benzene Qualifier RL 0.00100 Toluene <0.00500 U 0.00500 Ethylbenzene <0.00100 U 0.00100	Analyte Result Qualifier RL MDL Benzene <0.00100 U 0.00100 Toluene <0.00500 U 0.00500 Ethylbenzene <0.00100 U 0.00100	Analyte Result Benzene Qualifier RL O.00100 MDL Unit Unit MDL Unit Unit Unit MDL Unit Unit Unit Unit Unit Unit Unit Unit	Analyte Result Benzene Qualifier RL O.00100 MDL Unit D.00100 D mg/Kg Toluene <0.00500 U 0.00500 mg/Kg Ethylbenzene <0.00100 U 0.00100 mg/Kg	Analyte Result Benzene Qualifier RL 0.00100 MDL mg/Kg D mg/Kg Tolluene <0.00500 U 0.00500 mg/Kg Ethylbenzene <0.00100 U 0.00100 mg/Kg	Analyte Result Description Qualifier RL Description MDL Unit Description D Description Prepared Prepared Prepared Analyzed Description Benzene <0.00100 U 0.00100 mg/Kg 004/27/22 13:19 Tolluene <0.00500 U 0.00500 mg/Kg 004/27/22 13:19 Ethylbenzene <0.00100 U 0.00100 mg/Kg 004/27/22 13:19

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Prep Type: Total/NA

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Job ID: 820-4042-1 SDG: AR227085

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-50523/7

Matrix: Solid

Analysis Batch: 50523

Client Sample ID: Method Blank

Prep Type: Total/NA

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00100	U	0.00100		mg/Kg			04/27/22 13:19	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg			04/27/22 13:19	1
MTBE	<0.00500	U	0.00500		mg/Kg			04/27/22 13:19	1

MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 56 - 150 04/27/22 13:19 102 4-Bromofluorobenzene (Surr) 98 68 - 152 04/27/22 13:19 Dibromofluoromethane (Surr) 98 53 - 142 04/27/22 13:19 Toluene-d8 (Surr) 97 70 - 130 04/27/22 13:19

Lab Sample ID: LCS 860-50523/3

Matrix: Solid

Analysis Batch: 50523

Client Sample ID: Lab Control Sample Prep Type: Total/NA

LCS LCS %Rec Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.0500 0.04908 98 66 - 142 mg/Kg Toluene 0.0500 0.04730 95 74 - 130 mg/Kg Ethylbenzene 0.0500 0.04913 98 80 - 130 mg/Kg m,p-Xylenes 0.0500 0.04807 mg/Kg 96 78 - 130 o-Xylene 0.0500 0.04940 99 79 - 130 mg/Kg MTBE 0.0500 0.05180 mg/Kg 104 64 - 148

LCS LCS Limits Surrogate %Recovery Qualifier 56 - 150 1,2-Dichloroethane-d4 (Surr) 100 4-Bromofluorobenzene (Surr) 97 68 - 152 Dibromofluoromethane (Surr) 103 53 - 142 Toluene-d8 (Surr) 99 70 - 130

Lab Sample ID: LCSD 860-50523/4

Matrix: Solid

Analysis Batch: 50523

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Spike LCSD LCSD %Rec RPD **Analyte** Added Result Qualifier Limits **RPD** Limit Unit %Rec Benzene 0.0500 0.05035 101 66 - 142 25 mq/Kq 0.0500 74 - 130 Toluene 0.04884 mg/Kg 98 25 3 Ethylbenzene 0.0500 0.05043 mg/Kg 101 80 - 130 25 m,p-Xylenes 0.0500 0.05008 mg/Kg 100 78 - 130 25 o-Xylene 0.0500 0.05029 mg/Kg 101 79 - 130 25 MTBE 0.0500 0.05482 mg/Kg 110 64 - 148 25

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		56 - 150
4-Bromofluorobenzene (Surr)	96		68 - 152
Dibromofluoromethane (Surr)	104		53 - 142
Toluene-d8 (Surr)	101		70 - 130

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Job ID: 820-4042-1

SDG: AR227085

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-50685/9

Matrix: Solid

Analysis Batch: 50685

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MR						
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100	mg/Kg			04/28/22 12:34	1
Toluene	<0.00500	U	0.00500	mg/Kg			04/28/22 12:34	1
Ethylbenzene	<0.00100	U	0.00100	mg/Kg			04/28/22 12:34	1
m,p-Xylenes	<0.00200	U	0.00200	mg/Kg			04/28/22 12:34	1
o-Xylene	<0.00100	U	0.00100	mg/Kg			04/28/22 12:34	1
Xylenes, Total	<0.00200	U	0.00200	mg/Kg			04/28/22 12:34	1
MTBE	<0.00500	U	0.00500	mg/Kg			04/28/22 12:34	1

MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 98 56 - 150 04/28/22 12:34 1,2-Dichloroethane-d4 (Surr) 68 - 152 97 4-Bromofluorobenzene (Surr) 04/28/22 12:34 Dibromofluoromethane (Surr) 95 53 - 142 04/28/22 12:34 Toluene-d8 (Surr) 96 70 - 130 04/28/22 12:34

Lab Sample ID: LCS 860-50685/3

Matrix: Solid

Analysis Batch: 50685

Client Sample ID: Lab Control Sample Prep Type: Total/NA

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.0500	0.05397		mg/Kg		108	66 - 142	
Toluene	0.0500	0.05220		mg/Kg		104	74 - 130	
Ethylbenzene	0.0500	0.05436		mg/Kg		109	80 - 130	
m,p-Xylenes	0.0500	0.05374		mg/Kg		107	78 - 130	
o-Xylene	0.0500	0.05300		mg/Kg		106	79 - 130	
MTBE	0.0500	0.05186		mg/Kg		104	64 - 148	

	LCS LCS					
Surrogate	%Recovery	Qualifier	Limits			
1,2-Dichloroethane-d4 (Surr)	98		56 - 150			
4-Bromofluorobenzene (Surr)	99		68 - 152			
Dibromofluoromethane (Surr)	103		53 - 142			
Toluene-d8 (Surr)	98		70 - 130			

Lab Sample ID: LCSD 860-50685/4

Matrix: Solid

Analysis Batch: 50685

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Limits **RPD** Limit Unit D %Rec Benzene 0.0500 0.05019 100 66 - 142 25 mg/Kg Toluene 0.0500 0.04921 mg/Kg 98 74 - 130 6 25 Ethylbenzene 0.0500 0.05144 mg/Kg 103 80 - 130 25 m,p-Xylenes 0.0500 0.05129 mg/Kg 103 78 - 130 25 o-Xylene 0.0500 0.05103 mg/Kg 102 79 - 130 25 MTBE 0.0500 0.04738 95 64 - 148 25 mg/Kg

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		56 - 150
4-Bromofluorobenzene (Surr)	100		68 - 152

Client Sample ID: Matrix Spike

Prep Type: Total/NA

QC Sample Results

Client: Terracon Consulting Eng & Scientists

Job ID: 820-4042-1 Project/Site: Marshall APH Battery SDG: AR227085

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-50685/4 Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 50685

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	101		53 - 142
Toluene-d8 (Surr)	100		70 - 130

Matrix: Solid

Analysis Batch: 50886

Lab Sample ID: 880-14096-A-1-B MS

MR MR

Prep Batch: 50802 %Rec Sample Sample Spike MS MS Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Benzene <0.0502 U 2.51 2.412 96 71 - 119 mg/Kg Toluene <0.251 U 2.51 2.378 mg/Kg 95 74 - 122 mg/Kg Ethylbenzene <0.0502 U 2.51 2.436 97 80 - 123 m,p-Xylenes <0.100 U 2.51 2.416 mg/Kg 96 78 - 127 o-Xylene <0.0502 U 2.51 2.445 mg/Kg 97 79 - 125 MTBE <0.251 U 2.51 109 2.737 mg/Kg 64 - 148

MS MS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 97 56 - 150 4-Bromofluorobenzene (Surr) 100 68 - 152 Dibromofluoromethane (Surr) 101 53 - 142 Toluene-d8 (Surr) 100 70 - 130

Lab Sample ID: MB 860-50886/9 Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 50886

	1410	1410							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg			04/29/22 12:23	1
Toluene	<0.00500	U	0.00500		mg/Kg			04/29/22 12:23	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg			04/29/22 12:23	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg			04/29/22 12:23	1
o-Xylene	<0.00100	U	0.00100		mg/Kg			04/29/22 12:23	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg			04/29/22 12:23	1
MTBE	<0.00500	U	0.00500		mg/Kg			04/29/22 12:23	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		56 - 150		04/29/22 12:23	1
4-Bromofluorobenzene (Surr)	98		68 - 152		04/29/22 12:23	1
Dibromofluoromethane (Surr)	103		53 - 142		04/29/22 12:23	1
Toluene-d8 (Surr)	94		70 - 130		04/29/22 12:23	1

Lab Sample ID: LCS 860-50886/3

Matrix: Solid

Analysis Batch: 50886

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.0500	0.04774		mg/Kg		95	66 - 142	
Toluene	0.0500	0.04675		mg/Kg		93	74 - 130	
Ethylbenzene	0.0500	0.04810		mg/Kg		96	80 - 130	

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Client Sample ID: Lab Control Sample Prep Type: Total/NA

Released to Imaging: 10/21/2022 11:17:43 AM

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Job ID: 820-4042-1 SDG: AR227085

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-50886/3

Matrix: Solid

Analysis Batch: 50886

Client	Sample	ID:	Lab	Control	Sample
			Des	. Tumar	Total/NIA

Prep Type: Total/NA

		Spike	LCS	LCS				%Rec	
Α	nalyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
m	,p-Xylenes	0.0500	0.04774		mg/Kg		95	78 - 130	
0-	Xylene	0.0500	0.04878		mg/Kg		98	79 - 130	
M	TBE	0.0500	0.05673		mg/Kg		113	64 - 148	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		56 - 150
4-Bromofluorobenzene (Surr)	100		68 - 152
Dibromofluoromethane (Surr)	105		53 - 142
Toluene-d8 (Surr)	100		70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analysis Batch: 50886

Matrix: Solid

Lab Sample ID: LCSD 860-50886/4

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.0500	0.04787		mg/Kg		96	66 - 142	0	25
Toluene	0.0500	0.04515		mg/Kg		90	74 - 130	3	25
Ethylbenzene	0.0500	0.04817		mg/Kg		96	80 - 130	0	25
m,p-Xylenes	0.0500	0.04761		mg/Kg		95	78 - 130	0	25
o-Xylene	0.0500	0.04808		mg/Kg		96	79 - 130	1	25
MTBE	0.0500	0.04793		mg/Kg		96	64 - 148	17	25

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		56 - 150
4-Bromofluorobenzene (Surr)	99		68 - 152
Dibromofluoromethane (Surr)	102		53 - 142
Toluene-d8 (Surr)	97		70 - 130

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

Lab Sample ID: MB 860-50481/1-A

Matrix: Solid

Surrogate

1-Chlorooctane (Surr)

o-Terphenyl (Surr)

Analysis Batch: 50377

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 50481

-	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C10	<50.0	U	50.0		mg/Kg		04/26/22 18:45	04/27/22 05:20	1
Over C10-C28	<50.0	U	50.0		mg/Kg		04/26/22 18:45	04/27/22 05:20	1
Over C28-C36	<50.0	U	50.0		mg/Kg		04/26/22 18:45	04/27/22 05:20	1

65 - 130

%Recovery Qualifier Limits 65 - 130 100

MB MB

112

Prepared	Analyzed	Dil Fac
04/26/22 18:45	04/27/22 05:20	1
04/26/22 18:45	04/27/22 05:20	1

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Job ID: 820-4042-1

SDG: AR227085

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

Lab Sample ID: LCS 860-50481/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 50377

Prep Batch: 50481

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
C6-C10	996	1002		mg/Kg		101	70 - 135	
Over C10-C28	999	1037		mg/Kg		104	70 - 135	

LCS LCS

%Recovery Qualifier Limits 118 65 - 130 105 65 - 130

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 860-50481/3-A

Prep Type: Total/NA

Matrix: Solid

o-Terphenyl (Surr)

1-Chlorooctane (Surr)

Surrogate

Prep Batch: 50481

Analysis Batch: 50377

		Spike	LCSD	LCSD				%Rec		RPD	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
C6-C10		 996	1034		mg/Kg		104	70 - 135	3	35	
Over C10-	-C28	999	1096		mg/Kg		110	70 - 135	6	35	

Prep Type: Total/NA

LCSD LCSD

Surrogate %Recovery Qualifier Limits 1-Chlorooctane (Surr) 65 - 130 122 65 - 130 o-Terphenyl (Surr) 114

Client Sample ID: HA-4 (0-0.5)

Matrix: Solid

Prep Batch: 50481

Analysis Batch: 50377

Lab Sample ID: 820-4042-12 MS

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
C6-C10	<50.4	U	1000	1045		mg/Kg		104	70 - 135	
Over C10-C28	<50.4	U	1010	1101		mg/Kg		109	70 - 135	

MS MS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane (Surr)	120	65 - 130
o-Terphenyl (Surr)	109	65 - 130

Client Sample ID: Method Blank

Matrix: Solid

Analyte

C6-C10

Over C10-C28

Over C28-C36

Prep Batch: 50951

Analysis Batch: 50925

Lab Sample ID: MB 860-50951/1-A

MB MB

Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac <50.0 U 50.0 04/29/22 12:01 04/29/22 18:47 mg/Kg <50.0 U 50.0 mg/Kg 04/29/22 12:01 04/29/22 18:47 <50.0 U mg/Kg 04/29/22 12:01 04/29/22 18:47 50.0

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	112	65 - 130	04/29/22 12:01	04/29/22 18:47	1
o-Terphenyl (Surr)	112	65 - 130	04/29/22 12:01	04/29/22 18:47	1

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Prep Type: Total/NA

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Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Job ID: 820-4042-1 SDG: AR227085

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

Lab Sample ID: LCS 860-50951/2-A

Matrix: Solid

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 50951

Analysis Batch: 50925

Spike LCS LCS %Rec Result Qualifier Added %Rec Limits Unit 996 1033 mg/Kg 104 70 - 135

mg/Kg

999 997.7 mg/Kg 100 70 - 135

LCS LCS

Surrogate %Recovery Qualifier I imite 1-Chlorooctane (Surr) 115 65 - 130 o-Terphenyl (Surr) 117 65 - 130

Lab Sample ID: LCSD 860-50951/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Over C10-C28

Analyte

C6-C10

Over C10-C28

Analysis Batch: 50925

Prep Type: Total/NA

98

Prep Batch: 50951

2

LCSD LCSD %Rec **RPD** Spike Added Result Qualifier Unit %Rec Limits **RPD** Limit **Analyte** C6-C10 996 1066 107 70 - 135 3 35 mg/Kg

999

LCSD LCSD

%Recovery Qualifier Limits Surrogate 1-Chlorooctane (Surr) 114 65 - 130 o-Terphenyl (Surr) 117 65 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-50614/2-A

Matrix: Solid

Analysis Batch: 50552

Client Sample ID: Method Blank

70 - 135

Prep Type: Total/NA Prep Batch: 50614

980.0

MB MB

MDL Unit Result Qualifier RL Analyte Prepared Analyzed Dil Fac 04/27/22 15:19 04/27/22 17:08 Chloride <10.0 U 10.0 mg/Kg

Lab Sample ID: LCS 860-50614/3-A

Matrix: Solid

Analysis Batch: 50552

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Prep Batch: 50614

Spike LCS LCS %Rec Added Result Qualifier Limits Analyte Unit D %Rec Chloride 100 109.9 110 80 - 120 mg/Kg

Lab Sample ID: LCSD 860-50614/4-A

Matrix: Solid Analysis Batch: 50552 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 50614

LCSD LCSD Spike %Rec **RPD** Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 100 107.2 mg/Kg 107 80 - 120

Lab Sample ID: 820-4046-A-1-G MS

Matrix: Solid

Analysis Batch: 50552

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 50614

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 1530 98.6 1431 4 -98 80 - 120 mg/Kg

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35

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Job ID: 820-4042-1

SDG: AR227085

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 820-4046-A-1-H MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 50552** Prep Batch: 50614 Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Result Qualifier Unit Limits RPD Limit Analyte D %Rec 98.4 Chloride 1530 1430 4 mg/Kg -99 80 - 120 0 20

Lab Sample ID: MB 860-50799/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA Prep Batch: 50799

Analysis Batch: 50784 MD MD

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg	_	04/28/22 14:09	04/28/22 13:39	1

Lab Sample ID: LCS 860-50799/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 50784** Prep Batch: 50799 Spike LCS LCS %Rec Added Result Qualifier Limits Analyte Unit %Rec Chloride 100 97.06 97 80 - 120 mg/Kg

Lab Sample ID: LCSD 860-50799/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 50784** Prep Batch: 50799 Spike LCSD LCSD %Rec **RPD** Added Analyte Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 100 100.6 80 - 120 mg/Kg

Lab Sample ID: 820-4042-9 MS Client Sample ID: HA-2 (4.5-5) **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 50784

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	2200		98.2	2260	4	ma/Ka		62	80 - 120	Т

Lab Sample ID: 820-4042-9 MSD Client Sample ID: HA-2 (4.5-5) **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 50784** Prep Batch: 50799 Sample Sample Spike MSD MSD %Rec **RPD**

Result Qualifier Added Result Qualifier Limits **RPD** Limit Analyte Unit %Rec 2200 98.0 2260 4 Chloride mg/Kg 62 80 - 120 0 20

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Prep Batch: 50799

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Job ID: 820-4042-1 SDG: AR227085

GC/MS VOA

Prep Batch: 49788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-24846-A-1-A MS	Matrix Spike	Total/NA	Solid	5030C	

Prep Batch: 50410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4042-1	HA-1 (0.5-1)	Total/NA	Solid	5035	
820-4042-2	HA-1 (1.5-2)	Total/NA	Solid	5035	
820-4042-5 - DL2	HA-2 (0-0.5)	Total/NA	Solid	5035	
820-4042-5	HA-2 (0-0.5)	Total/NA	Solid	5035	
820-4042-5 - DL	HA-2 (0-0.5)	Total/NA	Solid	5035	
820-4042-6 - DL2	HA-2 (0.5-1)	Total/NA	Solid	5035	
820-4042-6	HA-2 (0.5-1)	Total/NA	Solid	5035	
820-4042-6 - DL	HA-2 (0.5-1)	Total/NA	Solid	5035	
820-4042-10 - DL	HA-3 (0-0.5)	Total/NA	Solid	5035	
820-4042-10	HA-3 (0-0.5)	Total/NA	Solid	5035	
820-4042-11	HA-3 (0.5-1)	Total/NA	Solid	5035	
820-4042-12	HA-4 (0-0.5)	Total/NA	Solid	5035	
820-4042-13	HA-5 (0-0.5)	Total/NA	Solid	5035	
820-4042-2 MS	HA-1 (1.5-2)	Total/NA	Solid	5035	

Analysis Batch: 50469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4042-1	HA-1 (0.5-1)	Total/NA	Solid	8260C	50410
820-4042-2	HA-1 (1.5-2)	Total/NA	Solid	8260C	50410
820-4042-5	HA-2 (0-0.5)	Total/NA	Solid	8260C	50410
820-4042-5 - DL	HA-2 (0-0.5)	Total/NA	Solid	8260C	50410
820-4042-6	HA-2 (0.5-1)	Total/NA	Solid	8260C	50410
820-4042-6 - DL	HA-2 (0.5-1)	Total/NA	Solid	8260C	50410
820-4042-10	HA-3 (0-0.5)	Total/NA	Solid	8260C	50410
820-4042-11	HA-3 (0.5-1)	Total/NA	Solid	8260C	50410
820-4042-12	HA-4 (0-0.5)	Total/NA	Solid	8260C	50410
820-4042-13	HA-5 (0-0.5)	Total/NA	Solid	8260C	50410
MB 860-50469/9	Method Blank	Total/NA	Solid	8260C	
LCS 860-50469/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-50469/4	Lab Control Sample Dup	Total/NA	Solid	8260C	
820-4042-2 MS	HA-1 (1.5-2)	Total/NA	Solid	8260C	50410

Analysis Batch: 50523

Lab Sample ID 820-4042-5 - DL2	Client Sample ID HA-2 (0-0.5)	Prep Type Total/NA	Matrix Solid	Method 8260C	Prep Batch 50410
820-4042-6 - DL2	HA-2 (0.5-1)	Total/NA	Solid	8260C	50410
820-4042-10 - DL	HA-3 (0-0.5)	Total/NA	Solid	8260C	50410
MB 860-50523/7	Method Blank	Total/NA	Solid	8260C	
LCS 860-50523/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-50523/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 50644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
820-4042-1	HA-1 (0.5-1)	Total/NA	Solid	Total BTEX
820-4042-2	HA-1 (1.5-2)	Total/NA	Solid	Total BTEX
820-4042-5	HA-2 (0-0.5)	Total/NA	Solid	Total BTEX
820-4042-6	HA-2 (0.5-1)	Total/NA	Solid	Total BTEX

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Job ID: 820-4042-1 SDG: AR227085

GC/MS VOA (Continued)

Analysis Batch: 50644 (Continued)

Lab Sample ID 820-4042-10	Client Sample ID HA-3 (0-0.5)	Prep Type Total/NA	Matrix Solid	Method Total BTEX	Prep Batch
820-4042-11	HA-3 (0.5-1)	Total/NA	Solid	Total BTEX	
820-4042-12	HA-4 (0-0.5)	Total/NA	Solid	Total BTEX	
820-4042-13	HA-5 (0-0.5)	Total/NA	Solid	Total BTEX	

Analysis Batch: 50685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4042-7	HA-2 (1.5-2)	Total/NA	Solid	8260C	50730
820-4042-8	HA-2 (3.5-4)	Total/NA	Solid	8260C	50730
820-4042-9	HA-2 (4.5-5)	Total/NA	Solid	8260C	50730
MB 860-50685/9	Method Blank	Total/NA	Solid	8260C	
LCS 860-50685/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-50685/4	Lab Control Sample Dup	Total/NA	Solid	8260C	
860-24846-A-1-A MS	Matrix Spike	Total/NA	Solid	8260C	49788

Prep Batch: 50730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4042-7 - DL	HA-2 (1.5-2)	Total/NA	Solid	5035	
820-4042-7	HA-2 (1.5-2)	Total/NA	Solid	5035	
820-4042-8 - DL	HA-2 (3.5-4)	Total/NA	Solid	5035	
820-4042-8	HA-2 (3.5-4)	Total/NA	Solid	5035	
820-4042-9	HA-2 (4.5-5)	Total/NA	Solid	5035	

Prep Batch: 50802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14096-A-1-B MS	Matrix Spike	Total/NA	Solid	5030C	

Analysis Batch: 50886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4042-7 - DL	HA-2 (1.5-2)	Total/NA	Solid	8260C	50730
820-4042-8 - DL	HA-2 (3.5-4)	Total/NA	Solid	8260C	50730
MB 860-50886/9	Method Blank	Total/NA	Solid	8260C	
LCS 860-50886/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-50886/4	Lab Control Sample Dup	Total/NA	Solid	8260C	
880-14096-A-1-B MS	Matrix Spike	Total/NA	Solid	8260C	50802

GC Semi VOA

Analysis Batch: 50366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4042-1	HA-1 (0.5-1)	Total/NA	Solid	8015B NM	50481
820-4042-6	HA-2 (0.5-1)	Total/NA	Solid	8015B NM	50481

Analysis Batch: 50368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4042-5	HA-2 (0-0.5)	Total/NA	Solid	8015B NM	50481
820-4042-10	HA-3 (0-0.5)	Total/NA	Solid	8015B NM	50481

Analysis Batch: 50377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4042-2	HA-1 (1.5-2)	Total/NA	Solid	8015B NM	50481

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Job ID: 820-4042-1 SDG: AR227085

GC Semi VOA (Continued)

Analysis Batch: 50377 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4042-11	HA-3 (0.5-1)	Total/NA	Solid	8015B NM	50481
820-4042-12	HA-4 (0-0.5)	Total/NA	Solid	8015B NM	50481
820-4042-13	HA-5 (0-0.5)	Total/NA	Solid	8015B NM	50481
MB 860-50481/1-A	Method Blank	Total/NA	Solid	8015B NM	50481
LCS 860-50481/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	50481
LCSD 860-50481/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	50481
820-4042-12 MS	HA-4 (0-0.5)	Total/NA	Solid	8015B NM	50481

Prep Batch: 50481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4042-1	HA-1 (0.5-1)	Total/NA	Solid	8015NM Prep	
820-4042-2	HA-1 (1.5-2)	Total/NA	Solid	8015NM Prep	
820-4042-5	HA-2 (0-0.5)	Total/NA	Solid	8015NM Prep	
820-4042-6	HA-2 (0.5-1)	Total/NA	Solid	8015NM Prep	
820-4042-10	HA-3 (0-0.5)	Total/NA	Solid	8015NM Prep	
820-4042-11	HA-3 (0.5-1)	Total/NA	Solid	8015NM Prep	
820-4042-12	HA-4 (0-0.5)	Total/NA	Solid	8015NM Prep	
820-4042-13	HA-5 (0-0.5)	Total/NA	Solid	8015NM Prep	
MB 860-50481/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-50481/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-50481/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
820-4042-12 MS	HA-4 (0-0.5)	Total/NA	Solid	8015NM Prep	

Analysis Batch: 50664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4042-1	HA-1 (0.5-1)	Total/NA	Solid	8015 NM	
820-4042-2	HA-1 (1.5-2)	Total/NA	Solid	8015 NM	
820-4042-5	HA-2 (0-0.5)	Total/NA	Solid	8015 NM	
820-4042-6	HA-2 (0.5-1)	Total/NA	Solid	8015 NM	
820-4042-7	HA-2 (1.5-2)	Total/NA	Solid	8015 NM	
820-4042-8	HA-2 (3.5-4)	Total/NA	Solid	8015 NM	
820-4042-9	HA-2 (4.5-5)	Total/NA	Solid	8015 NM	
820-4042-10	HA-3 (0-0.5)	Total/NA	Solid	8015 NM	
820-4042-11	HA-3 (0.5-1)	Total/NA	Solid	8015 NM	
820-4042-12	HA-4 (0-0.5)	Total/NA	Solid	8015 NM	
820-4042-13	HA-5 (0-0.5)	Total/NA	Solid	8015 NM	

Analysis Batch: 50925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-50951/1-A	Method Blank	Total/NA	Solid	8015B NM	50951
LCS 860-50951/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	50951
LCSD 860-50951/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	50951

Prep Batch: 50951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4042-7 - RA	HA-2 (1.5-2)	Total/NA	Solid	8015NM Prep	<u> </u>
820-4042-8 - RA	HA-2 (3.5-4)	Total/NA	Solid	8015NM Prep	
820-4042-9 - RA	HA-2 (4.5-5)	Total/NA	Solid	8015NM Prep	
MB 860-50951/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-50951/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-50951/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Job ID: 820-4042-1 SDG: AR227085

GC Semi VOA

Analysis Batch: 51155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4042-7 - RA	HA-2 (1.5-2)	Total/NA	Solid	8015B NM	50951
820-4042-8 - RA	HA-2 (3.5-4)	Total/NA	Solid	8015B NM	50951
820-4042-9 - RA	HA-2 (4.5-5)	Total/NA	Solid	8015B NM	50951

HPLC/IC

Prep Batch: 50417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4042-1	HA-1 (0.5-1)	Total/NA	Solid	300_Prep	
820-4042-2	HA-1 (1.5-2)	Total/NA	Solid	300_Prep	
820-4042-5	HA-2 (0-0.5)	Total/NA	Solid	300_Prep	
820-4042-6	HA-2 (0.5-1)	Total/NA	Solid	300_Prep	
820-4042-10	HA-3 (0-0.5)	Total/NA	Solid	300_Prep	
820-4042-11	HA-3 (0.5-1)	Total/NA	Solid	300_Prep	
820-4042-12	HA-4 (0-0.5)	Total/NA	Solid	300_Prep	

Analysis Batch: 50552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4042-1	HA-1 (0.5-1)	Total/NA	Solid	300.0	50417
820-4042-2	HA-1 (1.5-2)	Total/NA	Solid	300.0	50417
820-4042-5	HA-2 (0-0.5)	Total/NA	Solid	300.0	50417
820-4042-6	HA-2 (0.5-1)	Total/NA	Solid	300.0	50417
820-4042-10	HA-3 (0-0.5)	Total/NA	Solid	300.0	50417
820-4042-11	HA-3 (0.5-1)	Total/NA	Solid	300.0	50417
820-4042-12	HA-4 (0-0.5)	Total/NA	Solid	300.0	50417
820-4042-13	HA-5 (0-0.5)	Total/NA	Solid	300.0	50614
MB 860-50614/2-A	Method Blank	Total/NA	Solid	300.0	50614
LCS 860-50614/3-A	Lab Control Sample	Total/NA	Solid	300.0	50614
LCSD 860-50614/4-A	Lab Control Sample Dup	Total/NA	Solid	300.0	50614
820-4046-A-1-G MS	Matrix Spike	Total/NA	Solid	300.0	50614
820-4046-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	300.0	50614

Prep Batch: 50614

Lab Sample ID 820-4042-13	Client Sample ID HA-5 (0-0.5)	Prep Type Total/NA	Matrix Solid	Method 300 Prep	Prep Batch
MB 860-50614/2-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-50614/3-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-50614/4-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
820-4046-A-1-G MS	Matrix Spike	Total/NA	Solid	300_Prep	
820-4046-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	300_Prep	

Analysis Batch: 50784

Released to Imaging: 10/21/2022 11:17:43 AM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4042-7	HA-2 (1.5-2)	Total/NA	Solid	300.0	50799
820-4042-8	HA-2 (3.5-4)	Total/NA	Solid	300.0	50799
820-4042-9	HA-2 (4.5-5)	Total/NA	Solid	300.0	50799
MB 860-50799/1-A	Method Blank	Total/NA	Solid	300.0	50799
LCS 860-50799/2-A	Lab Control Sample	Total/NA	Solid	300.0	50799
LCSD 860-50799/3-A	Lab Control Sample Dup	Total/NA	Solid	300.0	50799
820-4042-9 MS	HA-2 (4.5-5)	Total/NA	Solid	300.0	50799
820-4042-9 MSD	HA-2 (4.5-5)	Total/NA	Solid	300.0	50799

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Job ID: 820-4042-1 SDG: AR227085

HPLC/IC

Prep Batch: 50799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4042-7	HA-2 (1.5-2)	Total/NA	Solid	300_Prep	
820-4042-8	HA-2 (3.5-4)	Total/NA	Solid	300_Prep	
820-4042-9	HA-2 (4.5-5)	Total/NA	Solid	300_Prep	
MB 860-50799/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-50799/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-50799/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
820-4042-9 MS	HA-2 (4.5-5)	Total/NA	Solid	300_Prep	
820-4042-9 MSD	HA-2 (4.5-5)	Total/NA	Solid	300 Prep	

Lab Chronicle

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Lab Sample ID: 820-4042-1

Matrix: Solid

Job ID: 820-4042-1

SDG: AR227085

Client Sample ID: HA-1 (0.5-1) Date Collected: 04/22/22 12:20

Date Received: 04/25/22 13:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	50410	04/26/22 13:01	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	50469	04/27/22 06:43	KLV	XEN STF
Total/NA	Analysis	Total BTEX		1			50644	04/27/22 16:58	MC	XEN STF
Total/NA	Analysis	8015 NM		1			50664	04/27/22 18:22	DD	XEN STF
Total/NA	Prep	8015NM Prep			5.7 g	10 mL	50481	04/26/22 18:45	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			50366	04/26/22 20:36	T1S	XEN STF
Total/NA	Prep	300_Prep			4.94 g	50 mL	50417	04/26/22 13:23	ANP	XEN STF
Total/NA	Analysis	300.0		1			50552	04/27/22 15:40	ANP	XEN STF

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

Date Collected: 04/22/22 12:25

Date Received: 04/25/22 13:53

Lab Sample ID: 820-4042-2

Lab Sample ID: 820-4042-5

Matrix: Solid

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Method **Prep Type** Type Run **Factor Amount** Amount Number or Analyzed **Analyst** Lab Total/NA 5035 50410 04/26/22 13:01 MTMG XEN STF Prep 4.98 g 5 mL 8260C Total/NA 5 mL 04/27/22 06:20 KLV Analysis 5 mL 50469 XEN STF 1 Total/NA Total BTEX Analysis 1 50644 04/27/22 16:58 MC XEN STF Total/NA 8015 NM 50664 Analysis 1 04/27/22 18:22 DD XEN STF Total/NA Prep 8015NM Prep 9.7 g 10 mL 50481 04/26/22 18:45 SAR XEN STF Total/NA 8015B NM 04/27/22 05:40 T1S Analysis 1 50377 XEN STF Total/NA Prep 50 mL 50417 04/26/22 13:23 ANP 300_Prep 4.92 g XEN STF Total/NA 300.0 50552 04/27/22 15:49 ANP Analysis 1 XEN STF

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

Date Collected: 04/22/22 12:40

Date Received: 04/25/22 13:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035	DL2		5.00 g	5 mL	50410	04/26/22 13:01	MTMG	XEN ST
Total/NA	Analysis	8260C	DL2	5000	5 mL	5 mL	50523	04/27/22 14:28	KLV	XEN ST
Total/NA	Prep	5035			5.00 g	5 mL	50410	04/26/22 13:01	MTMG	XEN ST
Total/NA	Analysis	8260C		25	5 mL	5 mL	50469	04/27/22 08:16	KLV	XEN ST
Total/NA	Prep	5035	DL		5.00 g	5 mL	50410	04/26/22 13:01	MTMG	XEN ST
Total/NA	Analysis	8260C	DL	500	5 mL	5 mL	50469	04/27/22 11:41	KLV	XEN ST
Total/NA	Analysis	Total BTEX		1			50644	04/27/22 16:58	MC	XEN ST
Total/NA	Analysis	8015 NM		1			50664	04/27/22 18:22	DD	XEN ST
Total/NA	Prep	8015NM Prep			9.68 g	10 mL	50481	04/26/22 18:45	SAR	XEN ST
Total/NA	Analysis	8015B NM		10			50368	04/26/22 20:55	T1S	XEN ST
Total/NA	Prep	300_Prep			4.98 g	50 mL	50417	04/26/22 13:23	ANP	XEN ST
Total/NA	Analysis	300.0		1			50552	04/27/22 15:57	ANP	XEN ST

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Job ID: 820-4042-1 SDG: AR227085

Client Sample ID: HA-2 (0.5-1)

Date Received: 04/25/22 13:53

Lab Sample ID: 820-4042-6 Date Collected: 04/22/22 12:45

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035	DL2		4.97 g	5 mL	50410	04/26/22 13:01	MTMG	XEN STF
Total/NA	Analysis	8260C	DL2	10000	5 mL	5 mL	50523	04/27/22 14:48	KLV	XEN STF
Total/NA	Prep	5035			4.97 g	5 mL	50410	04/26/22 13:01	MTMG	XEN STF
Total/NA	Analysis	8260C		25	5 mL	5 mL	50469	04/27/22 08:40	KLV	XEN STF
Total/NA	Prep	5035	DL		4.97 g	5 mL	50410	04/26/22 13:01	MTMG	XEN STF
Total/NA	Analysis	8260C	DL	2000	5 mL	5 mL	50469	04/27/22 12:04	KLV	XEN STF
Total/NA	Analysis	Total BTEX		1			50644	04/27/22 16:58	MC	XEN STF
Total/NA	Analysis	8015 NM		1			50664	04/27/22 18:22	DD	XEN STF
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	50481	04/26/22 18:45	SAR	XEN STF
Total/NA	Analysis	8015B NM		10			50366	04/26/22 20:16	T1S	XEN STF
Total/NA	Prep	300_Prep			4.97 g	50 mL	50417	04/26/22 13:23	ANP	XEN STF
Total/NA	Analysis	300.0		1			50552	04/27/22 16:06	ANP	XEN STF

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

Lab Sample ID: 820-4042-7 Date Collected: 04/22/22 12:50 **Matrix: Solid**

Date Received: 04/25/22 13:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	50730	04/28/22 10:08	MTMG	XEN STF
Total/NA	Analysis	8260C		2000	5 mL	5 mL	50685	04/28/22 19:13	MTMG	XEN STF
Total/NA	Prep	5035	DL		5.02 g	5 mL	50730	04/28/22 10:08	MTMG	XEN STF
Total/NA	Analysis	8260C	DL	5000	5 mL	5 mL	50886	04/29/22 19:34	MTMG	XEN STF
Total/NA	Analysis	8015 NM		1			50664	04/27/22 18:22	DD	XEN STF
Total/NA	Prep	8015NM Prep	RA		9.98 g	10 mL	50951	04/29/22 12:01	SYH	XEN STF
Total/NA	Analysis	8015B NM	RA	20			51155	05/02/22 11:19	DD	XEN STF
Total/NA	Prep	300_Prep			5.03 g	50 mL	50799	04/28/22 14:09	ANP	XEN STF
Total/NA	Analysis	300.0		1			50784	04/28/22 17:00	WP	XEN STF

Client Sample ID: HA-2 (3.5-4) Lab Sample ID: 820-4042-8 Date Collected: 04/22/22 12:55 **Matrix: Solid**

Date Received: 04/25/22 13:53

Released to Imaging: 10/21/2022 11:17:43 AM

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 g	50730	04/28/22 10:08	MTMG	XEN STF
Total/NA	Analysis	8260C		2000	5 mL	5 mL	50685	04/28/22 19:34	MTMG	XEN STF
Total/NA	Prep	5035	DL		5.01 g	5 g	50730	04/28/22 10:08	MTMG	XEN STF
Total/NA	Analysis	8260C	DL	5000	5 mL	5 mL	50886	04/29/22 19:55	MTMG	XEN STF
Total/NA	Analysis	8015 NM		1			50664	04/27/22 18:22	DD	XEN STF
Total/NA	Prep	8015NM Prep	RA		10.02 g	10 mL	50951	04/29/22 12:01	SYH	XEN STF
Total/NA	Analysis	8015B NM	RA	20			51155	05/02/22 11:38	DD	XEN STF
Total/NA	Prep	300_Prep			5.06 g	50 mL	50799	04/28/22 14:09	ANP	XEN STF
Total/NA	Analysis	300.0		1			50784	04/28/22 17:14	WP	XEN STF

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

SDG: AR227085 Lab Sample ID: 820-4042-9

Client Sample ID: HA-2 (4.5-5) Date Collected: 04/22/22 13:00

Date Received: 04/25/22 13:53

_	Mat	rix: Solid

Job ID: 820-4042-1

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 g	50730	04/28/22 10:08	MTMG	XEN STF
Total/NA	Analysis	8260C		2000	5 mL	5 mL	50685	04/28/22 19:54	MTMG	XEN STF
Total/NA	Analysis	8015 NM		1			50664	04/27/22 18:22	DD	XEN STF
Total/NA	Prep	8015NM Prep	RA		10.02 g	10 mL	50951	04/29/22 12:01	SYH	XEN STF
Total/NA	Analysis	8015B NM	RA	20			51155	05/02/22 12:01	DD	XEN STF
Total/NA	Prep	300_Prep			5.08 g	50 mL	50799	04/28/22 14:09	ANP	XEN STF
Total/NA	Analysis	300.0		1			50784	04/28/22 17:28	WP	XEN STF

Lab Sample ID: 820-4042-10

Client Sample ID: HA-3 (0-0.5) Date Collected: 04/22/22 13:05

Date Received: 04/25/22 13:53

Matrix:	Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035	DL		5.01 g	5 mL	50410	04/26/22 13:01	MTMG	XEN STF
Total/NA	Analysis	8260C	DL	200	5 mL	5 mL	50523	04/27/22 14:07	KLV	XEN STF
Total/NA	Prep	5035			5.01 g	5 mL	50410	04/26/22 13:01	MTMG	XEN STF
Total/NA	Analysis	8260C		25	5 mL	5 mL	50469	04/27/22 11:17	KLV	XEN STF
Total/NA	Analysis	Total BTEX		1			50644	04/27/22 16:58	MC	XEN STF
Total/NA	Analysis	8015 NM		1			50664	04/27/22 18:22	DD	XEN STF
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	50481	04/26/22 18:45	SAR	XEN STF
Total/NA	Analysis	8015B NM		10			50368	04/26/22 20:36	T1S	XEN STF
Total/NA	Prep	300_Prep			5.02 g	50 mL	50417	04/26/22 13:23	ANP	XEN STF
Total/NA	Analysis	300.0		1			50552	04/27/22 16:15	ANP	XEN STF

Client Sample ID: HA-3 (0.5-1) Lab Sample ID: 820-4042-11

Date Collected: 04/22/22 13:10 **Matrix: Solid** Date Received: 04/25/22 13:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	50410	04/26/22 13:01	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	50469	04/27/22 07:07	KLV	XEN STF
Total/NA	Analysis	Total BTEX		1			50644	04/27/22 16:58	MC	XEN STF
Total/NA	Analysis	8015 NM		1			50664	04/27/22 18:22	DD	XEN STF
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	50481	04/26/22 18:45	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			50377	04/27/22 06:00	T1S	XEN STF
Total/NA	Prep	300_Prep			5.09 g	50 mL	50417	04/26/22 13:23	ANP	XEN STF
Total/NA	Analysis	300.0		1			50552	04/27/22 16:24	ANP	XEN STF

Client Sample ID: HA-4 (0-0.5)

Lab Sample ID: 820-4042-12 Date Collected: 04/22/22 13:15 **Matrix: Solid**

Date Received: 04/25/22 13:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	50410	04/26/22 13:01	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	50469	04/27/22 07:30	KLV	XEN STF

Date Received: 04/25/22 13:53

Lab Chronicle

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Client Sample ID: HA-4 (0-0.5) Lab Sample ID: 820-4042-12 Date Collected: 04/22/22 13:15

Matrix: Solid

Job ID: 820-4042-1

SDG: AR227085

Batch Batch Dil Initial Batch Final Prepared **Prep Type** Method **Factor** or Analyzed Type Run **Amount Amount** Number **Analyst** Lab Total/NA Total BTEX 50644 04/27/22 16:58 MC XEN STF Analysis Total/NA Analysis 8015 NM 1 50664 04/27/22 18:22 DD XEN STF Total/NA 04/26/22 18:45 SAR Prep 8015NM Prep 9.92 g 10 mL 50481 XEN STF 8015B NM 04/27/22 06:19 T1S Total/NA Analysis 50377 XEN STF 1 Total/NA Prep 300_Prep 5.07 g 50 mL 50417 04/26/22 13:23 ANP XEN STF Total/NA Analysis 300.0 50552 04/27/22 16:33 ANP 1 XEN STF

Lab Sample ID: 820-4042-13

Client Sample ID: HA-5 (0-0.5) Date Collected: 04/22/22 13:20 **Matrix: Solid**

Date Received: 04/25/22 13:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	50410	04/26/22 13:01	MTMG	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	50469	04/27/22 07:53	KLV	XEN STF
Total/NA	Analysis	Total BTEX		1			50644	04/27/22 16:58	MC	XEN STF
Total/NA	Analysis	8015 NM		1			50664	04/27/22 18:22	DD	XEN STF
Total/NA	Prep	8015NM Prep			9.86 g	10 mL	50481	04/26/22 18:45	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			50377	04/27/22 06:57	T1S	XEN STF
Total/NA	Prep	300_Prep			5.02 g	50 mL	50614	04/27/22 15:19	ANP	XEN STF
Total/NA	Analysis	300.0		1			50552	04/27/22 16:42	ANP	XEN STF

Laboratory References:

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

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists

Job ID: 820-4042-1 Project/Site: Marshall APH Battery SDG: AR227085

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Ī	Program	Identification Number	Expiration Date
Texas	1	NELAP	T104704215-21-44	06-30-22
the agency does not o	offer certification.	•	not certified by the governing authority.	This list may include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
8015B NM	8015NM Prep	Solid	C6-C10	
8015B NM	8015NM Prep	Solid	Over C10-C28	
8015B NM	8015NM Prep	Solid	Over C28-C36	
Total BTEX		Solid	Total BTEX	

Method Summary

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Job ID: 820-4042-1

SDG: AR227085

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	XEN STF
Total BTEX	Total BTEX Calculation	TAL SOP	XEN STF
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
300.0	Anions, Ion Chromatography	MCAWW	XEN STF
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	MCAWW	XEN STF
5035	Closed System Purge and Trap	SW846	XEN STF
8015NM Prep	Microextraction	SW846	XEN STF

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates. TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

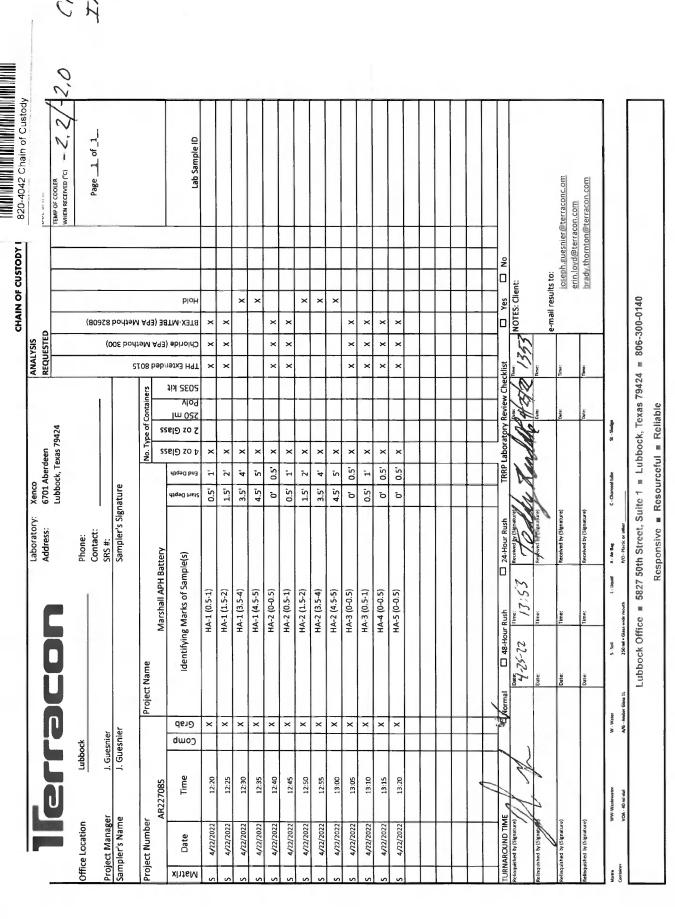
Sample Summary

Client: Terracon Consulting Eng & Scientists Project/Site: Marshall APH Battery

Job ID: 820-4042-1

SDG: AR227085

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
820-4042-1	HA-1 (0.5-1)	Solid	04/22/22 12:20	04/25/22 13:53	0.5 - 1
820-4042-2	HA-1 (1.5-2)	Solid	04/22/22 12:25	04/25/22 13:53	1.5 - 2
820-4042-5	HA-2 (0-0.5)	Solid	04/22/22 12:40	04/25/22 13:53	0 - 0.5
820-4042-6	HA-2 (0.5-1)	Solid	04/22/22 12:45	04/25/22 13:53	0.5 - 1
820-4042-7	HA-2 (1.5-2)	Solid	04/22/22 12:50	04/25/22 13:53	1.5 - 2
820-4042-8	HA-2 (3.5-4)	Solid	04/22/22 12:55	04/25/22 13:53	3.5 - 4
820-4042-9	HA-2 (4.5-5)	Solid	04/22/22 13:00	04/25/22 13:53	4.5 - 5
820-4042-10	HA-3 (0-0.5)	Solid	04/22/22 13:05	04/25/22 13:53	0 - 0.5
820-4042-11	HA-3 (0.5-1)	Solid	04/22/22 13:10	04/25/22 13:53	0.5 - 1
820-4042-12	HA-4 (0-0.5)	Solid	04/22/22 13:15	04/25/22 13:53	0 - 0.5
820-4042-13	HA-5 (0-0 5)	Solid	04/22/22 13:20	04/25/22 13:53	0 - 0 5



seurofins Environment Testing America

Chain of Custody Record

Eurofins Lubbock 6701 Aberdeen Ave. Suite 8 Lubbock, TX 79424 Phone: 808-794-1296

Ver 06/08/2021

					l	l						,
Client Information (Sub Contract Lab)	Sampler			Kramer	Jessica			Carrier Tracking No(s):	ıg No(s):	COC No: 820-3642.1		_
Client Confact: Shipping/Receiving	Phone:			E-Mail: Jessica	.Kramer(Net euro	E-Mail: Jessica. Kramer@et.eurofinsus.com	State of Origin: Texas		Page: Page 1 of 1		
Company: Eurofins Environment Testing South Centr				<u>₹ Z</u>	Accreditations Required (See note): NELAP Texas	Required 3Xas	(See note):			Job #. 820-4042-1		_
Address. 4145 Greenbriar Dr	Due Date Requested: 4/27/2022						Analysis	Analysis Requested		Preservation Codes:	des:	_
City:	TAT Requested (days)					E			 -	A HCL	M Hexane N None	_
Stafford						_	_ _		_		O AsNaO2	
State, Zp: 					HeT		-			D Nitric Acid	P Na2O4S Q Na2SO3	
Phone: 281-240-4200/Tell	PO#.											
Enail:	# OM			(1.8.		ebì	30.			H Ascorbic Acid		_
					(i+j)	лој4(LW P			- - ¬ :		
Project Name: General Soils	Project #: 82000340			1,840	(len)) de1	ns X3				W pH4-5 Z other (specify)	
Site:	SSOW#:				(e,Q)	d ⁻ 00	ITA :			Offiser		
					ist, j		Ole O.					
		Samole	Sample Type (C=comp.	Matrix (Www.ater, Sworld,	EMOD_UM/E	SMOD_Calc	OC/2032FP_			ग असमास्ता		
Sample Identification Client ID (Lab ID)	Sample Date	- 1			in .	-	978				Special Instructions/Note:	
HA-1 (0.5-1) (820-4042-1)	4/22/22	12:20 Central		Solid	×	×	×					_
HA-1 (1.5-2) (820-4042-2)	4/22/22	12:25 Central		Solid	×	×	×					
HA-2 (0-0.5) (820-4042-5)	4122122	12:40 Central		Solid	×	×	×		-			,
HA-2 (0.5-1) (820-4042-6)	4/22/22	12:45 Central		Solid	×	×	×		-			_
HA-3 (0-0.5) (820-4042-10)	4/22/22	13:05 Central		Solid	×	×	×	-			256-1101	4
HA-3 (0.5-1) (820-4042-11)	4122122	13:10 Central		Solid	×	×	×			2	7 IRIDIA	
HA-4 (0-0.5) (820-4042-12)	4/22/22	13:15 Central		Solid	×	×	×			Temp 7	1 2 1 2 mer - 60-112	
HA-5 (0-0.5) (820-4042-13)	4/22/22	13:20 Central		Solid	×	×	×			Corrected		_
Note: Since laboratory accreditation in the State of Ongin listed above for analysis/ests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC pleases the ownership of method, analyze & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory accreditation in the State of Ongin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to	nt Testing South Central,	LLC places the	he ownership of alyzed, the sam	method, analyte	& accredita	ition campl o the Euro	iance upon out si	Decontract laboratories	This sample shipm	ent is forwarded under contractions will be propertional to the propertion of the properties of the pr	hain-of-custody. If the rovided, Any changes to	
accreditation status should be brought to Eurofins Environment Testing South Ce	entral, LLC attention imme	ediately. If all	requested accr	reditations are co	ment to date	s, return th	signed Chain o	Custody attesting to	aid complicance to E	urofins Environment Tes	sting South Central, LLC.	
Tossione nazaro noemuncanon					Sample []	ample Disposal (A f	il (A fee ma) Client	/ De assessed if sam	samples are reti	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	month Months	
Deliverable Requested: I III, IV Other (specify)	Primary Deliverable Rank: 2	e Rank: 2			Special	Instruction	Special Instructions/QC Requirements.	rements.		5	Statom	_
Empty Kit Relinquished by:	٩	Date:			Time:			Method	Method of Shipment			_
Reinquignector Penergy lev	Date/Time: 122	[] (00	Company	Recei	Received by:	FedEx	\	Date/Time:		Company	
Relinquished by: FedEx F	Date/Time:		<u>8</u>	Company	Rece	Received by:	2		l	4/26/2022 10:50	Company EX	
	Date/Time.		8_ :	Company	Rece	Received by:	3		Date/Time:		Сотралу	
Custody Seals Intact. Custody Seal No.					Coole	r Tempera	Cooler Temperature(s) °C and Other Remarks:	her Remarks:				_

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists Job Number: 820-4042-1 SDG Number: AR227085

List Source: Eurofins Lubbock

Login Number: 4042 List Number: 1

Creator: Lee, Randell

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	N/A	

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<6mm (1/4").

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 820-4042-1

SDG Number: AR227085

List Source: Eurofins Houston

List Creation: 04/26/22 12:00 PM

Login Number: 4042 List Number: 2 Creator: Milone, Jeancarlo

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	

Eurofins Lubbock

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Environment Testing America

ANALYTICAL REPORT

Eurofins Lubbock 6701 Aberdeen Ave. Suite 8

Lubbock, TX 79424 Tel: (806)794-1296

Laboratory Job ID: 820-4212-1

Laboratory Sample Delivery Group: AR227085 Client Project/Site: Marshall APH Battery

For:

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

Attn: Joseph Guesnier

MEAMER

Authorized for release by: 5/11/2022 2:26:29 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

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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.

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Client: Terracon Consulting Eng & Scientists Project/Site: Marshall APH Battery

Laboratory Job ID: 820-4212-1 SDG: AR227085

G: AR227085

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 5/11/2022 2:26:29 PM

RAMER

Page 2 of 25

Client: Terracon Consulting Eng & Scientists Project/Site: Marshall APH Battery

Laboratory Job ID: 820-4212-1 SDG: AR227085

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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Job ID: 820-4212-1 SDG: AR227085

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

F1 MS and/or MSD recovery exceeds control limits. U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

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)

Dilution Factor Dil Fac

Detection Limit (DoD/DOE) DΙ

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**

Presumptive **PRES** 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: Marshall APH Battery

Job ID: 820-4212-1 SDG: AR227085

Job ID: 820-4212-1

Laboratory: Eurofins Lubbock

Narrative

Job Narrative 820-4212-1

Receipt

The samples were received on 5/9/2022 5:00 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 -1.5°C

GC VOA

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

GC Semi VOA

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-25270 and analytical batch 880-25229 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.

HPLC/IC

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

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

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

Lab Sample ID: 820-4212-1

Matrix: Soil

Job ID: 820-4212-1

SDG: AR227085

Date Collected: 05/05/22 15:15 Date Received: 05/09/22 17:00 Sample Depth: 0 - 0.5'

Method: 8015 NM - Diesel Ran	ge Organics (DRO) (GO	C)					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	10700	499	mg/Kg			05/11/22 13:40	1

Total TPH	10700		499	mg/Kg			05/11/22 13:40	1
Method: 8015B NM - Diesel	Range Organ	ics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1380		499	mg/Kg		05/10/22 11:04	05/10/22 14:36	10
Diesel Range Organics (Over C10-C28)	8300		499	mg/Kg		05/10/22 11:04	05/10/22 14:36	10
Oll Range Organics (Over C28-C36)	970		499	mg/Kg		05/10/22 11:04	05/10/22 14:36	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		70 - 130			05/10/22 11:04	05/10/22 14:36	10
o-Terphenyl (Surr)	72		70 - 130			05/10/22 11:04	05/10/22 14:36	10

Client Sample ID: HA-2 (1-2) Lab Sample ID: 820-4212-2

Date Collected: 05/05/22 15:20 **Matrix: Soil**

Date Received: 05/09/22 17:00

Sample Depth: 1' - 2'

Method: 8015 NM - Diesel Ra	ange Organics (DRO) (GC	;)						
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	6530	250		mg/Kg			05/11/22 13:40	1
Method: 8015B NM - Diesel I	Range Organics (DRO) (G	iC)						
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	2930	250		mg/Kg		05/10/22 11:04	05/10/22 14:58	5

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2930	250	mg/Kg		05/10/22 11:04	05/10/22 14:58	5
Diesel Range Organics (Over C10-C28)	3260	250	mg/Kg		05/10/22 11:04	05/10/22 14:58	5
Oll Range Organics (Over C28-C36)	339	250	mg/Kg		05/10/22 11:04	05/10/22 14:58	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	111		70 - 130	05/10/22 11:04	05/10/22 14:58	5
o-Terphenyl (Surr)	84		70 - 130	05/10/22 11:04	05/10/22 14:58	5

Date Collected: 05/05/22 15:25 Date Received: 05/09/22 17:00

Client Sample ID: HA-2 (3-4)

Sample Depth: 3' - 4'

Method: 8015 NM - Diesel Ran	ige Organics (DRO) (GO	;)					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	5840	250	mg/Kg			05/11/22 13:40	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	3510		250		mg/Kg		05/10/22 11:04	05/10/22 15:19	5
Diesel Range Organics (Over C10-C28)	2330		250		mg/Kg		05/10/22 11:04	05/10/22 15:19	5
Oll Range Organics (Over C28-C36)	<250	U	250		mg/Kg		05/10/22 11:04	05/10/22 15:19	5

Eurofins Lubbock

Lab Sample ID: 820-4212-3

Matrix: Soil

5/11/2022

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Lab Sample ID: 820-4212-3

Client Sample ID: HA-2 (3-4)
Date Collected: 05/05/22 15:25
Date Received: 05/09/22 17:00

Matrix: Soil

Matrix: Soil

Matrix: Soil

Job ID: 820-4212-1

SDG: AR227085

Sample Depth: 3' - 4'

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	110	70 - 130	05/10/22 11:04	05/10/22 15:19	5
o-Terphenyl (Surr)	94	70 - 130	05/10/22 11:04	05/10/22 15:19	5

Client Sample ID: HA-2 (4-5)

Date Collected: 05/05/22 15:30

Date Received: 05/09/22 17:00 Sample Depth: 4' - 5'

Lab Sample ID: 820-4212-4

Lab Sample ID: 820-4212-5

Method: 8015 NM - Diesel Range Organics (DRO) (GC)AnalyteResultQualifierRLMDLUnitDPreparedAnalyzedDil FacTotal TPH257050.0mg/Kg05/11/22 13:401

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac **Gasoline Range Organics** 1410 50.0 05/10/22 11:04 05/10/22 16:34 mg/Kg (GRO)-C6-C10 **Diesel Range Organics (Over** 1070 50.0 mg/Kg 05/10/22 11:04 05/10/22 16:34 C10-C28) **Oll Range Organics (Over** 50.0 mg/Kg 05/10/22 11:04 05/10/22 16:34 93.5 C28-C36) %Recovery Qualifier Limits

 Surrogate
 %Recovery 1-Chlorooctane (Surr)
 Qualifier 70 - 130
 Limits 70 - 130
 Prepared 70 - 130
 Analyzed 70 - 130
 Dil Fac 70 - 130

 o-Terphenyl (Surr)
 83
 70 - 130
 05/10/22 11:04
 05/10/22 16:34
 1

Client Sample ID: HA-2 (5-6)
Date Collected: 05/05/22 15:35

Date Received: 05/09/22 17:00

Sample Depth: 5' - 6'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	5320		249		mg/Kg			05/11/22 13:40	1
Method: 8015B NM - Diesel I	Range Organi	ics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1880		249		mg/Kg		05/10/22 11:04	05/10/22 16:13	5
Diesel Range Organics (Over C10-C28)	3180		249		mg/Kg		05/10/22 11:04	05/10/22 16:13	5
Oll Range Organics (Over C28-C36)	260		249		mg/Kg		05/10/22 11:04	05/10/22 16:13	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	109		70 - 130				05/10/22 11:04	05/10/22 16:13	5
o-Terphenyl (Surr)	95		70 - 130				05/10/22 11:04	05/10/22 16:13	5

Job ID: 820-4212-1 SDG: AR227085

Client: Terracon Consulting Eng & Scientists Project/Site: Marshall APH Battery

Client Sample ID: HA-2 (6-7) Date Collected: 05/05/22 15:40

Lab Sample ID: 820-4212-6

Matrix: Soil

Date Received: 05/09/22 17:00 Sample Depth: 6' - 7'

Method: 8015 NM - Diesel Rang	ge Organic	s (DRO) (G	C)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	481		49.9		mg/Kg			05/11/22 13:40	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	93.8		49.9		mg/Kg		05/10/22 11:04	05/10/22 16:55	1
Diesel Range Organics (Over C10-C28)	387		49.9		mg/Kg		05/10/22 11:04	05/10/22 16:55	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/10/22 11:04	05/10/22 16:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	90		70 - 130				05/10/22 11:04	05/10/22 16:55	1
o-Terphenyl (Surr)	92		70 - 130				05/10/22 11:04	05/10/22 16:55	1

Client Sample ID: HA-2 (7-8) Lab Sample ID: 820-4212-7 Date Collected: 05/05/22 15:45 **Matrix: Soil**

Date Received: 05/09/22 17:00

Sample Depth: 7' - 8'

Method: 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	230		50.0		mg/Kg			05/11/22 13:40	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	87.1		50.0		mg/Kg		05/10/22 11:04	05/10/22 18:00	1
Diesel Range Organics (Over C10-C28)	143		50.0		mg/Kg		05/10/22 11:04	05/10/22 18:00	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/10/22 11:04	05/10/22 18:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	89		70 - 130				05/10/22 11:04	05/10/22 18:00	1
o-Terphenyl (Surr)	96		70 - 130				05/10/22 11:04	05/10/22 18:00	1

Client Sample ID: HA-2 (8-9) Lab Sample ID: 820-4212-8 Matrix: Soil

Date Collected: 05/05/22 15:50 Date Received: 05/09/22 17:00

Sample Depth: 8' - 9'

Method: 8015 NM - Diesel Ran	;)						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	113	50.0	mg/Kg			05/11/22 13:40	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac				
Gasoline Range Organics (GRO)-C6-C10	54.7	50.0	mg/Kg	05/10/22 11:04	05/10/22 18:22	1				
Diesel Range Organics (Over C10-C28)	58.4	50.0	mg/Kg	05/10/22 11:04	05/10/22 18:22	1				
Oll Range Organics (Over C28-C36)	<50.0 U	50.0	mg/Kg	05/10/22 11:04	05/10/22 18:22	1				

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Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Client Sample ID: HA-2 (8-9)

Lab Sample ID: 820-4212-8

Lab Sample ID: 820-4212-9

Date Collected: 05/05/22 15:50 Date Received: 05/09/22 17:00 Matrix: Soil

Job ID: 820-4212-1

SDG: AR227085

Matrix: Soil

Sample Depth: 8' - 9'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	91		70 - 130	05/10/22 11:04	05/10/22 18:22	1
o-Terphenyl (Surr)	98		70 - 130	05/10/22 11:04	05/10/22 18:22	1

Client Sample ID: HA-2 (9-10)

Date Collected: 05/05/22 15:55

Date Received: 05/09/22 17:00

Sample Depth: 9' - 10'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00371		0.00199		mg/Kg		05/10/22 10:52	05/11/22 05:56	1
Toluene	0.0543		0.00199		mg/Kg		05/10/22 10:52	05/11/22 05:56	1
Ethylbenzene	0.0611		0.00199		mg/Kg		05/10/22 10:52	05/11/22 05:56	1
m,p-Xylenes	0.0581		0.00398		mg/Kg		05/10/22 10:52	05/11/22 05:56	1
o-Xylene	0.0252		0.00199		mg/Kg		05/10/22 10:52	05/11/22 05:56	1
Xylenes, Total	0.0833		0.00398		mg/Kg		05/10/22 10:52	05/11/22 05:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				05/10/22 10:52	05/11/22 05:56	1
1,4-Difluorobenzene (Surr)	83		70 - 130				05/10/22 10:52	05/11/22 05:56	1

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.202	0.00398	mg/Kg			05/11/22 08:13	1

Method: 8015 NM - Diesel Ran	ge Organics (DRO) (GC	;)					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	545	50.0	mg/Kg			05/11/22 13:40	1

Method: 8015B NM - Diesel Ra	nge Organics (DRO) (0	GC)					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	157	50.0	mg/Kg		05/10/22 11:04	05/10/22 17:39	1
Diesel Range Organics (Over C10-C28)	388	50.0	mg/Kg		05/10/22 11:04	05/10/22 17:39	1
OII Range Organics (Over C28-C36)	<50.0 U	50.0	mg/Kg		05/10/22 11:04	05/10/22 17:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	94		70 - 130	05/10/22 11:04	05/10/22 17:39	1
o-Terphenyl (Surr)	96		70 - 130	05/10/22 11:04	05/10/22 17:39	1

Method: 300.0 - Anions, Ion C	ble								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	629		4.99		mg/Kg			05/10/22 17:30	1

Eurofins Lubbock

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Surrogate Summary

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Job ID: 820-4212-1 SDG: AR227085

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Soil Prep Type: Total/NA

Γ				Pe	ercent Surrogate Recovery (Acceptance Limits)
			BFB1	DFBZ1	
La	ab Sample ID	Client Sample ID	(70-130)	(70-130)	
82	20-4212-9	HA-2 (9-10)	88	83	

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)						
		BFB1	DFBZ1					
Lab Sample ID	Client Sample ID	(70-130)	(70-130)					
880-14580-A-4-B MS	Matrix Spike	104	98					
880-14580-A-4-C MSD	Matrix Spike Duplicate	106	101					
LCS 880-25266/1-A	Lab Control Sample	99	99					
LCSD 880-25266/2-A	Lab Control Sample Dup	100	97					
MB 880-25110/5-A	Method Blank	101	95					
MB 880-25266/5-A	Method Blank	98	95					

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Soil Prep Type: Total/NA

		1CO1	ОТРН1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
820-4212-1	HA-2 (0-0.5)	103	72	
820-4212-2	HA-2 (1-2)	111	84	
820-4212-3	HA-2 (3-4)	110	94	
820-4212-4	HA-2 (4-5)	97	83	
820-4212-5	HA-2 (5-6)	109	95	
820-4212-6	HA-2 (6-7)	90	92	
820-4212-7	HA-2 (7-8)	89	96	
820-4212-8	HA-2 (8-9)	91	98	
820-4212-9	HA-2 (9-10)	94	96	

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

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

Matrix: Solid Prep Type: Total/NA

Г				Perce	ent Surrogate Recovery (Acceptance Limits)
			1CO1	OTPH1	
1	Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
{	380-14580-A-1-F MS	Matrix Spike	81	73	
8	380-14580-A-1-G MSD	Matrix Spike Duplicate	82	74	
1	_CS 880-25270/2-A	Lab Control Sample	102	99	

Surrogate Summary

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Job ID: 820-4212-1

SDG: AR227085

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

Matrix: Solid Prep Type: Total/NA

			Perce	ent Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
LCSD 880-25270/3-A	Lab Control Sample Dup	103	101	
MB 880-25270/1-A	Method Blank	88	99	
Surrogate Legend				
1CO = 1-Chlorooctane	(Surr)			
OTPH = o-Terphenyl (Surr)			

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Job ID: 820-4212-1 SDG: AR227085

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-25110/5-A

Matrix: Solid

Analysis Batch: 25224

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25110

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/09/22 13:08	05/10/22 12:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/09/22 13:08	05/10/22 12:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/09/22 13:08	05/10/22 12:02	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		05/09/22 13:08	05/10/22 12:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/09/22 13:08	05/10/22 12:02	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/09/22 13:08	05/10/22 12:02	1
	440	440							

MB MB

Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 101 1,4-Difluorobenzene (Surr) 95 70 - 130

Prepared Analyzed Dil Fac 05/09/22 13:08 05/10/22 12:02 05/09/22 13:08 05/10/22 12:02

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 25266

Lab Sample ID: MB 880-25266/5-A **Matrix: Solid**

Analysis Batch: 25224

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/10/22 10:52	05/11/22 03:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/10/22 10:52	05/11/22 03:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/10/22 10:52	05/11/22 03:04	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		05/10/22 10:52	05/11/22 03:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/10/22 10:52	05/11/22 03:04	1
Xylenes, Total	< 0.00400	U	0.00400		mg/Kg		05/10/22 10:52	05/11/22 03:04	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98	70 - 130	05/10/22 10:52	05/11/22 03:04	1
1,4-Difluorobenzene (Surr)	95	70 - 130	05/10/22 10:52	05/11/22 03:04	1

Lab Sample ID: LCS 880-25266/1-A

Matrix: Solid

Analysis Batch: 25224

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

Prep Batch: 25266

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08603		mg/Kg		86	70 - 130	
Toluene	0.100	0.08465		mg/Kg		85	70 - 130	
Ethylbenzene	0.100	0.08620		mg/Kg		86	70 - 130	
m,p-Xylenes	0.200	0.1796		mg/Kg		90	70 - 130	
o-Xylene	0.100	0.09780		mg/Kg		98	70 - 130	

LCS LCS

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

Lab Sample ID: LCSD 880-25266/2-A

Matrix: Solid

Analyte Benzene

Analysis Batch: 25224

						Prep Ty	al/NA	
						Prep E	25266	
Spike	LCSD	LCSD				%Rec		RPD
Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
0.100	0.07230		mg/Kg		72	70 - 130	17	35

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Job ID: 820-4212-1 SDG: AR227085

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

Lab Sample ID: LCSD 880-25266/2-A

Matrix: Solid

Analysis Batch: 25224

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 25266

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.07434		mg/Kg		74	70 - 130	13	35
Ethylbenzene	0.100	0.07575		mg/Kg		76	70 - 130	13	35
m,p-Xylenes	0.200	0.1592		mg/Kg		80	70 - 130	12	35
o-Xylene	0.100	0.08755		mg/Kg		88	70 - 130	11	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 880-14580-A-4-B MS

Matrix: Solid

Analysis Batch: 25224

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 25266

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.0998	0.07959		mg/Kg		80	70 - 130	
Toluene	<0.00201	U	0.0998	0.07831		mg/Kg		78	70 - 130	
Ethylbenzene	<0.00201	U	0.0998	0.08032		mg/Kg		80	70 - 130	
m,p-Xylenes	<0.00402	U	0.200	0.1674		mg/Kg		84	70 - 130	
o-Xylene	<0.00201	U	0.0998	0.09136		mg/Kg		92	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	104	70 - 130
1,4-Difluorobenzene (Surr)	98	70 - 130

Lab Sample ID: 880-14580-A-4-C MSD

Matrix: Solid

Analysis Batch: 25224

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 25266

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-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U	0.100	0.08680		mg/Kg		87	70 - 130	9	35
Toluene	<0.00201	U	0.100	0.08529		mg/Kg		85	70 - 130	9	35
Ethylbenzene	<0.00201	U	0.100	0.08679		mg/Kg		87	70 - 130	8	35
m,p-Xylenes	<0.00402	U	0.200	0.1811		mg/Kg		90	70 - 130	8	35
o-Xylene	<0.00201	U	0.100	0.09802		mg/Kg		98	70 - 130	7	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

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

Lab Sample ID: MB 880-25270/1-A

Matrix: Solid

Analysis Batch: 25229

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 25270

MB MB Result Qualifier RL MDL Unit Analyte Prepared Analyzed Gasoline Range Organics <50.0 U 50.0 mg/Kg 05/10/22 11:04 05/10/22 11:21 (GRO)-C6-C10

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Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Job ID: 820-4212-1 SDG: AR227085

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

Lab Sample ID: MB 880-25270/1-A

Matrix: Solid

Analysis Batch: 25229

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 25270

•	MB	MB						•	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/10/22 11:04	05/10/22 11:21	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/10/22 11:04	05/10/22 11:21	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	88		70 - 130	05/10/22 11:04	05/10/22 11:21	1
o-Terphenyl (Surr)	99		70 - 130	05/10/22 11:04	05/10/22 11:21	1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 880-25270/2-A **Matrix: Solid Prep Type: Total/NA** Prep Batch: 25270

Analysis Batch: 25229

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	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	871.9		mg/Kg		87	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	978.6		mg/Kg		98	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	r Limits
1-Chlorooctane (Surr)	102	70 - 130
o-Terphenyl (Surr)	99	70 - 130

Lab Sample ID: LCSD 880-25270/3-A Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 25229						Prep Batch: 25270			
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	814.5		mg/Kg		81	70 - 130	7	20
Diesel Range Organics (Over	1000	987.6		mg/Kg		99	70 - 130	1	20

C10-C28)

C10-C28)

LCSD LCSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane (Surr) 103 70 - 130 o-Terphenyl (Surr) 101 70 - 130

Lab Sample ID: 880-14580-A-1-F MS

Matrix: Solid

Analysis Batch: 25229

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 25270

•	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	1003		mg/Kg		98	70 - 130	
Diesel Range Organics (Over	81.9	F1	1000	747.7	F1	mg/Kg		67	70 - 130	

C10-C28)

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	81		70 - 130
o-Terphenvl (Surr)	73		70 - 130

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Job ID: 820-4212-1

SDG: AR227085

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

Lab Sample ID: 880-14580-A-1-G MSD

Matrix: Solid

Analysis Batch: 25229

Client Sample ID: Matrix Spike Duplicate

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Total/NA

Prep Batch: 25270

	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	<50.0	U	998	1026		mg/Kg		100	70 - 130	2	20
Diesel Range Organics (Over	81.9	F1	998	761.4	F1	mg/Kg		68	70 - 130	2	20

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	82		70 - 130
o-Terphenyl (Surr)	74		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-25241/1-A **Client Sample ID: Method Blank Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 25278

MB MB

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00 U	5.00	mg/Kg			05/10/22 16:07	1

Lab Sample ID: LCS 880-25241/2-A

Matrix: Solid

Analysis Batch: 25278

	Spike	LCS LCS				%Rec
Analyte	Added	Result Qualif	ier Unit	D	%Rec	Limits
Chloride	250	257.0	mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-25241/3-A

Matrix: Solid

Analysis Batch: 25278

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	254.6		mg/Kg		102	90 - 110	1	20

QC Association Summary

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Job ID: 820-4212-1 SDG: AR227085

GC VOA

Prep Batch: 25110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-25110/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 25224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4212-9	HA-2 (9-10)	Total/NA	Soil	8021B	25266
MB 880-25110/5-A	Method Blank	Total/NA	Solid	8021B	25110
MB 880-25266/5-A	Method Blank	Total/NA	Solid	8021B	25266
LCS 880-25266/1-A	Lab Control Sample	Total/NA	Solid	8021B	25266
LCSD 880-25266/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	25266
880-14580-A-4-B MS	Matrix Spike	Total/NA	Solid	8021B	25266
880-14580-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	25266

Prep Batch: 25266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4212-9	HA-2 (9-10)	Total/NA	Soil	5035	
MB 880-25266/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-25266/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-25266/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-14580-A-4-B MS	Matrix Spike	Total/NA	Solid	5035	
880-14580-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 25302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4212-9	HA-2 (9-10)	Total/NA	Soil	Total BTEX	-

GC Semi VOA

Analysis Batch: 25229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4212-1	HA-2 (0-0.5)	Total/NA	Soil	8015B NM	25270
820-4212-2	HA-2 (1-2)	Total/NA	Soil	8015B NM	25270
820-4212-3	HA-2 (3-4)	Total/NA	Soil	8015B NM	25270
820-4212-4	HA-2 (4-5)	Total/NA	Soil	8015B NM	25270
820-4212-5	HA-2 (5-6)	Total/NA	Soil	8015B NM	25270
820-4212-6	HA-2 (6-7)	Total/NA	Soil	8015B NM	25270
820-4212-7	HA-2 (7-8)	Total/NA	Soil	8015B NM	25270
820-4212-8	HA-2 (8-9)	Total/NA	Soil	8015B NM	25270
820-4212-9	HA-2 (9-10)	Total/NA	Soil	8015B NM	25270
MB 880-25270/1-A	Method Blank	Total/NA	Solid	8015B NM	25270
LCS 880-25270/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	25270
LCSD 880-25270/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	25270
880-14580-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	25270
880-14580-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	25270

Prep Batch: 25270

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4212-1	HA-2 (0-0.5)	Total/NA	Soil	8015NM Prep	
820-4212-2	HA-2 (1-2)	Total/NA	Soil	8015NM Prep	
820-4212-3	HA-2 (3-4)	Total/NA	Soil	8015NM Prep	
820-4212-4	HA-2 (4-5)	Total/NA	Soil	8015NM Prep	
820-4212-5	HA-2 (5-6)	Total/NA	Soil	8015NM Prep	

Eurofins Lubbock

Page 16 of 25

QC Association Summary

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Job ID: 820-4212-1 SDG: AR227085

GC Semi VOA (Continued)

Prep Batch: 25270 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4212-6	HA-2 (6-7)	Total/NA	Soil	8015NM Prep	
820-4212-7	HA-2 (7-8)	Total/NA	Soil	8015NM Prep	
820-4212-8	HA-2 (8-9)	Total/NA	Soil	8015NM Prep	
820-4212-9	HA-2 (9-10)	Total/NA	Soil	8015NM Prep	
MB 880-25270/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-25270/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-25270/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-14580-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-14580-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 25356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4212-1	HA-2 (0-0.5)	Total/NA	Soil	8015 NM	
820-4212-2	HA-2 (1-2)	Total/NA	Soil	8015 NM	
820-4212-3	HA-2 (3-4)	Total/NA	Soil	8015 NM	
820-4212-4	HA-2 (4-5)	Total/NA	Soil	8015 NM	
820-4212-5	HA-2 (5-6)	Total/NA	Soil	8015 NM	
820-4212-6	HA-2 (6-7)	Total/NA	Soil	8015 NM	
820-4212-7	HA-2 (7-8)	Total/NA	Soil	8015 NM	
820-4212-8	HA-2 (8-9)	Total/NA	Soil	8015 NM	
820-4212-9	HA-2 (9-10)	Total/NA	Soil	8015 NM	

HPLC/IC

Leach Batch: 25241

Lab Sample ID 820-4212-9	Client Sample ID HA-2 (9-10)	Prep Type Soluble	Matrix Soil	Method DI Leach	Prep Batch
MB 880-25241/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-25241/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-25241/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 25278

Lab Sample ID 820-4212-9	Client Sample ID HA-2 (9-10)	Prep Type Soluble	Matrix	Method 300.0	Prep Batch 25241
MB 880-25241/1-A	Method Blank	Soluble	Soil Solid	300.0	25241 25241
LCS 880-25241/2-A	Lab Control Sample	Soluble	Solid	300.0	25241
LCSD 880-25241/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	25241

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

Date Collected: 05/05/22 15:15 Date Received: 05/09/22 17:00

Lab Sample ID: 820-4212-1

Matrix: Soil

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			25356	05/11/22 13:40	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	25270	05/10/22 11:04	DM	XEN MID
Total/NA	Analysis	8015B NM		10			25229	05/10/22 14:36	SM	XEN MID

Client Sample ID: HA-2 (1-2) Lab Sample ID: 820-4212-2

Date Collected: 05/05/22 15:20 Date Received: 05/09/22 17:00

Matrix: Soil

Prep Type Total/NA	Batch Type Analysis	Batch Method 8015 NM	Run	Pactor 1	Initial Amount	Final Amount	Batch Number 25356	Prepared or Analyzed 05/11/22 13:40	Analyst SM	Lab XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		5	10.02 g	10 mL	25270 25229	05/10/22 11:04 05/10/22 14:58		XEN MID XEN MID

Client Sample ID: HA-2 (3-4) Lab Sample ID: 820-4212-3 Date Collected: 05/05/22 15:25

Date Received: 05/09/22 17:00

Matrix: Soil

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			25356	05/11/22 13:40	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	25270	05/10/22 11:04	DM	XEN MID
Total/NA	Analysis	8015B NM		5			25229	05/10/22 15:19	SM	XEN MID

Client Sample ID: HA-2 (4-5) Lab Sample ID: 820-4212-4 **Matrix: Soil**

Date Collected: 05/05/22 15:30 Date Received: 05/09/22 17:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			25356	05/11/22 13:40	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	25270	05/10/22 11:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25229	05/10/22 16:34	SM	XEN MID

Client Sample ID: HA-2 (5-6) Lab Sample ID: 820-4212-5

Date Collected: 05/05/22 15:35 Matrix: Soil Date Received: 05/09/22 17:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			25356	05/11/22 13:40	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	25270	05/10/22 11:04	DM	XEN MID
Total/NA	Analysis	8015B NM		5			25229	05/10/22 16:13	SM	XEN MID

Client Sample ID: HA-2 (6-7) Lab Sample ID: 820-4212-6

Date Collected: 05/05/22 15:40 Date Received: 05/09/22 17:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			25356	05/11/22 13:40	SM	XEN MID

Eurofins Lubbock

Matrix: Soil

Job ID: 820-4212-1 SDG: AR227085

Client Sample ID: HA-2 (6-7) Lab Sample ID: 820-4212-6

Matrix: Soil

Date Collected: 05/05/22 15:40 Date Received: 05/09/22 17:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	25270	05/10/22 11:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25229	05/10/22 16:55	SM	XEN MID

Lab Sample ID: 820-4212-7 Client Sample ID: HA-2 (7-8)

Date Collected: 05/05/22 15:45 Matrix: Soil

Date Received: 05/09/22 17:00

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			25356	05/11/22 13:40	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25270		DM	XEN MID
Total/NA	Analysis	8015B NM		1			25229	05/10/22 18:00	SM	XEN MID

Client Sample ID: HA-2 (8-9)

Lab Sample ID: 820-4212-8 Date Collected: 05/05/22 15:50 **Matrix: Soil**

Date Received: 05/09/22 17:00

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			25356	05/11/22 13:40	SM	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.00 g	10 mL	25270 25229	05/10/22 11:04 05/10/22 18:22	DM SM	XEN MID XEN MID

Lab Sample ID: 820-4212-9 Client Sample ID: HA-2 (9-10)

Date Collected: 05/05/22 15:55 Date Received: 05/09/22 17:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	25266	05/10/22 10:52	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25224	05/11/22 05:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25302	05/11/22 08:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			25356	05/11/22 13:40	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25270	05/10/22 11:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25229	05/10/22 17:39	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	25241	05/10/22 10:39	SC	XEN MID
Soluble	Analysis	300.0		1			25278	05/10/22 17:30	CH	XEN MID

Laboratory References:

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

Eurofins Lubbock

Matrix: Soil

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Job ID: 820-4212-1 SDG: AR227085

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pro	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-21-22	06-30-22
The following analyte:	s are included in this repo	ort, but the laboratory is r	not certified by the governing authority.	This list may include analytes for w
the agency does not	•	,	not continue by the governing dutherty.	This list may include analytes for wh
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Method Summary

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Job ID: 820-4212-1 SDG: AR227085

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Lubbock

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Sample Summary

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Job ID: 820-4212-1 SDG: AR227085

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
820-4212-1	HA-2 (0-0.5)	Soil	05/05/22 15:15	05/09/22 17:00	0 - 0.5'
820-4212-2	HA-2 (1-2)	Soil	05/05/22 15:20	05/09/22 17:00	1' - 2'
820-4212-3	HA-2 (3-4)	Soil	05/05/22 15:25	05/09/22 17:00	3' - 4'
820-4212-4	HA-2 (4-5)	Soil	05/05/22 15:30	05/09/22 17:00	4' - 5'
820-4212-5	HA-2 (5-6)	Soil	05/05/22 15:35	05/09/22 17:00	5' - 6'
820-4212-6	HA-2 (6-7)	Soil	05/05/22 15:40	05/09/22 17:00	6' - 7'
820-4212-7	HA-2 (7-8)	Soil	05/05/22 15:45	05/09/22 17:00	7' - 8'
820-4212-8	HA-2 (8-9)	Soil	05/05/22 15:50	05/09/22 17:00	8' - 9'
820-4212-9	HA-2 (9-10)	Soil	05/05/22 15:55	05/09/22 17:00	9' - 10'

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Loc: 820 **4212**

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists Job Number: 820-4212-1 SDG Number: AR227085

List Source: Eurofins Lubbock

Login Number: 4212 List Number: 1

Creator: Ruggles, Ashley

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: 820-4212-1 SDG Number: AR227085

Login Number: 4212
List Source: Eurofins Midland
List Number: 2
List Creation: 05/10/22 10:37 AM

Creator: Teel, Brianna

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	

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Environment Testing America

ANALYTICAL REPORT

Eurofins Lubbock 6701 Aberdeen Ave. Suite 8

Lubbock, TX 79424 Tel: (806)794-1296

Laboratory Job ID: 820-4502-1

Laboratory Sample Delivery Group: AR227085 Client Project/Site: Marshall APH Battery

Revision: 1

For:

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

Attn: Joseph Guesnier

MRAMER

Authorized for release by: 6/14/2022 8:40:57 AM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

Review your project results through

·····LINKS ·······

Have a Question?



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Released to Imaging: 10/21/2022 11:17:43 AM

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.

Client: Terracon Consulting Eng & Scientists Project/Site: Marshall APH Battery

Laboratory Job ID: 820-4502-1

SDG: AR227085

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

Coliform MCLs

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

Warranties, Terms, and Conditions

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

> ERF = field staff performs tests under NJ State certification #02015 VL = field staff performs tests under NJ State certification #06005 WG = field staff performs tests under NJ State certification #PA001

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

05499

- · Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.
- · The report shall not be reproduced, except in full, without the written consent of the laboratory
- · All samples are collected as "grab" samples unless otherwise identified.
- · Reported results related only to the samples as tested. EQC is not responsible for sample integrity unless sampling has been performed by a member of our staff.
- · EQC is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.
- · Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.
- The following personnel or their deputies have approved the results of the tests performed by EQC: Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).

Jessica Kramer

Project Manager

6/14/2022 8:40:57 AM

RAMER

Page 2 of 34

Client: Terracon Consulting Eng & Scientists Project/Site: Marshall APH Battery

Laboratory Job ID: 820-4502-1 SDG: AR227085

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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists

Job ID: 820-4502-1 Project/Site: Marshall APH Battery

SDG: AR227085

Qualifiers

GC VOA Qualifier

F1 MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

Qualifier Description

S1-Surrogate recovery exceeds control limits, low 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.

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.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery Contains Free Liquid **CFL** 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" Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

MDI 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

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TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: Terracon Consulting Eng & Scientists

Job ID: 820-4502-1 SDG: AR227085 Project/Site: Marshall APH Battery

Job ID: 820-4502-1

Laboratory: Eurofins Lubbock

Narrative

Job Narrative 820-4502-1

REVISION

The report being provided is a revision of the original report sent on 6/13/2022. The report (revision 1) is being revised due to Per client email, requesting sample ID change N to NW.

Report revision history

Receipt

The samples were received on 6/7/2022 9:30 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 6.0°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-27132 and analytical batch 880-27214 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

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 880-27175 and analytical batch 880-27311 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.

Date Collected: 06/06/22 15:30

Date Received: 06/07/22 09:30

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Client Sample ID: WW Lab Sam

Lab Sample ID: 820-4502-1

Matrix: Soil

Job ID: 820-4502-1

SDG: AR227085

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0106	F1	0.00199		mg/Kg		06/09/22 08:48	06/09/22 19:39	1
Toluene	0.128	F1	0.00199		mg/Kg		06/09/22 08:48	06/09/22 19:39	1
Ethylbenzene	0.0492	F1 F2	0.00199		mg/Kg		06/09/22 08:48	06/09/22 19:39	1
m,p-Xylenes	0.0374	F1 F2	0.00398		mg/Kg		06/09/22 08:48	06/09/22 19:39	1
o-Xylene	0.0117	F1 F2	0.00199		mg/Kg		06/09/22 08:48	06/09/22 19:39	1
Xylenes, Total	0.0491	F1 F2	0.00398		mg/Kg		06/09/22 08:48	06/09/22 19:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				06/09/22 08:48	06/09/22 19:39	1
1,4-Difluorobenzene (Surr)	104		70 - 130				06/09/22 08:48	06/09/22 19:39	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.237	0.00398	mg/Kg			06/10/22 11:39	1

Method: 8015 NM - Diesel Rai	nge Organics (DRO) (GC	3)					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1040	50.0	mg/Kg			06/10/22 08:41	1

Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/08/22 17:20	06/10/22 04:35	1
Diesel Range Organics (Over C10-C28)	1040		50.0		mg/Kg		06/08/22 17:20	06/10/22 04:35	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/08/22 17:20	06/10/22 04:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	115		70 - 130				06/08/22 17:20	06/10/22 04:35	1

o-Terphenyl (Surr)	114	70 - 130		0	06/08/22 17:20	06/10/22 04:35	1
Method: 300.0 - Anions, Ion Chrom	natography - Solubl	le					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: NWW

Date Collected: 06/06/22 15:35

Lab Sample ID: 820-4502-2

Matrix: Soil

50.0

mg/Kg

5750 F1

Date Received: 06/07/22 09:30

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/09/22 08:48	06/09/22 20:06	1
Toluene	0.0343		0.00198		mg/Kg		06/09/22 08:48	06/09/22 20:06	1
Ethylbenzene	0.0178		0.00198		mg/Kg		06/09/22 08:48	06/09/22 20:06	1
m,p-Xylenes	0.0179		0.00397		mg/Kg		06/09/22 08:48	06/09/22 20:06	1
o-Xylene	0.0125		0.00198		mg/Kg		06/09/22 08:48	06/09/22 20:06	1
Xylenes, Total	0.0304		0.00397		mg/Kg		06/09/22 08:48	06/09/22 20:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130				06/09/22 08:48	06/09/22 20:06	1
1.4-Difluorobenzene (Surr)	103		70 - 130				06/09/22 08:48	06/09/22 20:06	1

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Eurofins Lubbock

06/10/22 20:11

Client Sample Results

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Date Received: 06/07/22 09:30

Lab Sample ID: 820-4502-2

Client Sample ID: NWW Date Collected: 06/06/22 15:35

Matrix: Soil

Job ID: 820-4502-1

SDG: AR227085

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Total BTEX	0.0825		0.00397		mg/Kg			06/10/22 11:39	1

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

Result Qualifier Analyte RL **MDL** Unit Analyzed Dil Fac Prepared **Total TPH** 06/10/22 08:41 114 49.9 mg/Kg

Method: 8015B NM - I	Diesel Range Organics (DRO) (GC)
Analyte	Result Qualifier

ı	Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
	Gasoline Range Organics	<49.9	U	49.9	mg/Kg		06/08/22 17:20	06/10/22 05:18	1
١	(GRO)-C6-C10								
ı	Diesel Range Organics (Over	114		49.9	mg/Kg		06/08/22 17:20	06/10/22 05:18	1
١	C10-C28)								
ı	OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/08/22 17:20	06/10/22 05:18	1
١									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	122		70 - 130	06/08/22 17:20	06/10/22 05:18	1
o-Terphenyl (Surr)	126		70 - 130	06/08/22 17:20	06/10/22 05:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	718	5.05	mg/Kg			06/10/22 20:38	1

Client Sample ID: SWW Lab Sample ID: 820-4502-3 Date Collected: 06/06/22 15:40 **Matrix: Soil**

Date Received: 06/07/22 09:30

Method: 8021B - Volatile Organic Compounds ((GC)	
	. – – ,	,

Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0559		0.00199		mg/Kg		06/09/22 08:48	06/09/22 20:33	1
Toluene	0.303		0.00199		mg/Kg		06/09/22 08:48	06/09/22 20:33	1
Ethylbenzene	0.0750		0.00199		mg/Kg		06/09/22 08:48	06/09/22 20:33	1
m,p-Xylenes	0.0608		0.00398		mg/Kg		06/09/22 08:48	06/09/22 20:33	1
o-Xylene	0.0157		0.00199		mg/Kg		06/09/22 08:48	06/09/22 20:33	1
Xylenes, Total	0.0765		0.00398		mg/Kg		06/09/22 08:48	06/09/22 20:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1 Promofluorobenzone (Surr)	106		70 120				06/00/22 08:48	06/00/22 20:33	

ı	Surrogate	/ortecovery	Qualifiei	Liiiits	r repared Analyzed	Diriac
	4-Bromofluorobenzene (Surr)	106		70 - 130	06/09/22 08:48 06/09/22 20:33	1
	1,4-Difluorobenzene (Surr)	101		70 - 130	06/09/22 08:48 06/09/22 20:33	1
ì	<u> </u>					

Method: Total BTEX - Total BTEX Calculation

Released to Imaging: 10/21/2022 11:17:43 AM

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.510	0.00398	mg/Kg			06/10/22 11:39	1

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

Analyte	Result	Qualifier	RL	MDL U	nit	D	Prepared	Analyzed	Dil Fac	
Total TPH	4880		250	m	ıg/Kg			06/10/22 08:41	1	

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

	9	(-::-) (-	/					
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<250	U	250	mg/Kg		06/08/22 17:20	06/10/22 04:13	5
(GRO)-C6-C10								
Diesel Range Organics (Over	4880		250	mg/Kg		06/08/22 17:20	06/10/22 04:13	5
C10-C28)								

Job ID: 820-4502-1

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

SDG: AR227085 Lab Sample ID: 820-4502-3

Client Sample ID: SWW

Date Collected: 06/06/22 15:40 Date Received: 06/07/22 09:30

IJ	Sample	ID.	020-4302-3	
			Matrix: Soil	

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<250	U	250	mg/Kg		06/08/22 17:20	06/10/22 04:13	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	116		70 - 130			06/08/22 17:20	06/10/22 04:13	5
o-Terphenyl (Surr)	95		70 - 130			06/08/22 17:20	06/10/22 04:13	5

Method: 300.0 - Anions, Ion Cl	hromatography - Solub	le					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6680	49.5	mg/Kg			06/10/22 20:47	10

Client Sample ID: F-1 Lab Sample ID: 820-4502-4

Date Collected: 06/06/22 15:45 **Matrix: Soil**

Date Received: 06/07/22 09:30

Method: 8021B - Volatile Organic C	Compounds (GC)
A a lost a	Desuit Ouslities

Method: 8021B - Volatile O	rganic Compou	ınds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00942		0.00200		mg/Kg		06/09/22 08:48	06/09/22 21:00	1
Toluene	0.0804		0.00200		mg/Kg		06/09/22 08:48	06/09/22 21:00	1
Ethylbenzene	0.0276		0.00200		mg/Kg		06/09/22 08:48	06/09/22 21:00	1
m,p-Xylenes	0.0203		0.00400		mg/Kg		06/09/22 08:48	06/09/22 21:00	1
o-Xylene	0.0258		0.00200		mg/Kg		06/09/22 08:48	06/09/22 21:00	1
Xylenes, Total	0.0461		0.00400		mg/Kg		06/09/22 08:48	06/09/22 21:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				06/09/22 08:48	06/09/22 21:00	1
1 4-Diffuorobenzene (Surr)	aa		70 130				06/09/22 08:48	06/09/22 21:00	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111	70 - 130	06/09/22 08:48	06/09/22 21:00	1
1,4-Difluorobenzene (Surr)	99	70 - 130	06/09/22 08:48	06/09/22 21:00	1
_					

Method: Total BTEX - Total BTEX Calculation

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.164	0.00400	mg/Kg			06/10/22 11:39	1

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

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	465	49.9	mg/Kg			06/10/22 08:41	1

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

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		06/08/22 17:20	06/10/22 04:57	1
(GRO)-C6-C10 Diesel Range Organics (Over	465		49.9	mg/Kg		06/08/22 17:20	06/10/22 04:57	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/08/22 17:20	06/10/22 04:57	1
0	0/ 🗖	O !!!!	1 : : 4			Duamanad	A a l a al	Dil 5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	131	S1+	70 - 130	06/08/22 17:20	06/10/22 04:57	1
o-Terphenyl (Surr)	133	S1+	70 - 130	06/08/22 17:20	06/10/22 04:57	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3360	24.9	mg/Kg			06/10/22 20:57	5

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Lab Sample ID: 820-4502-5

Matrix: Soil

Job ID: 820-4502-1

SDG: AR227085

Client Sample ID: NW Date Collected: 06/06/22 16:30

Date Received: 06/07/22 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/09/22 08:48	06/09/22 21:27	1
Toluene	< 0.00201	U	0.00201		mg/Kg		06/09/22 08:48	06/09/22 21:27	1
Ethylbenzene	0.00873		0.00201		mg/Kg		06/09/22 08:48	06/09/22 21:27	1
m,p-Xylenes	0.0207		0.00402		mg/Kg		06/09/22 08:48	06/09/22 21:27	1
o-Xylene	< 0.00201	U	0.00201		mg/Kg		06/09/22 08:48	06/09/22 21:27	1
Xylenes, Total	0.0207		0.00402		mg/Kg		06/09/22 08:48	06/09/22 21:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				06/09/22 08:48	06/09/22 21:27	1
1,4-Difluorobenzene (Surr)	100		70 - 130				06/09/22 08:48	06/09/22 21:27	1
Method: Total BTEX - Total B	TEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0294		0.00402		mg/Kg			06/10/22 11:39	1
Method: 8015 NM - Diesel Rai Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	234		49.9		mg/Kg	— <u>-</u>		06/10/22 08:41	1
Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/08/22 17:20	06/10/22 00:14	
` ,									1
• • • • • • • • • • • • • • • • • • • •	234		49.9		mg/Kg		06/08/22 17:20	06/10/22 00:14	1
C10-C28)	234 <49.9	U	49.9 49.9		mg/Kg mg/Kg		06/08/22 17:20 06/08/22 17:20	06/10/22 00:14 06/10/22 00:14	·
C10-C28) OII Range Organics (Over C28-C36)					0 0				1
C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<49.9		49.9		0 0		06/08/22 17:20	06/10/22 00:14	1
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane (Surr) o-Terphenyl (Surr)	<49.9 %Recovery		49.9		0 0		06/08/22 17:20 Prepared 06/08/22 17:20	06/10/22 00:14 Analyzed	1 Dil Fac
C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane (Surr) o-Terphenyl (Surr)	<49.9 %Recovery 97 102	Qualifier	49.9 Limits 70 - 130 70 - 130		0 0		06/08/22 17:20 Prepared 06/08/22 17:20	06/10/22 00:14 Analyzed 06/10/22 00:14	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<49.9 **Recovery 97 102 Chromatogra	Qualifier	49.9 Limits 70 - 130 70 - 130	MDL	0 0	D	06/08/22 17:20 Prepared 06/08/22 17:20	06/10/22 00:14 Analyzed 06/10/22 00:14	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Client Sample ID: F-2 Lab Sample ID: 820-4502-6 Date Collected: 06/06/22 16:35 Matrix: Soil

Date Received: 06/07/22 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/09/22 08:48	06/09/22 21:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/09/22 08:48	06/09/22 21:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/09/22 08:48	06/09/22 21:54	1
m,p-Xylenes	<0.00398	U	0.00398		mg/Kg		06/09/22 08:48	06/09/22 21:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/09/22 08:48	06/09/22 21:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/09/22 08:48	06/09/22 21:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				06/09/22 08:48	06/09/22 21:54	1
1,4-Difluorobenzene (Surr)	99		70 - 130				06/09/22 08:48	06/09/22 21:54	1

Job ID: 820-4502-1

SDG: AR227085

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Lab Sample ID: 820-4502-6

Client Sample ID: F-2 Date Collected: 06/06/22 16:35 Matrix: Soil

Date Received: 06/07/22 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/10/22 11:39	1
Method: 8015 NM - Diesel Rai	nge Organic	s (DRO) (G	SC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/10/22 08:41	1
Method: 8015B NM - Diesel R Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
			• •	MDL	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier	• •	MDL	Unit mg/Kg	<u>D</u>	Prepared 06/08/22 17:20	Analyzed 06/10/22 00:36	Dil Fac
Analyte	Result	Qualifier	RL _	MDL		<u>D</u>			Dil Fac
Analyte Gasoline Range Organics	Result	Qualifier U	RL _	MDL		<u>D</u>		06/10/22 00:36	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result < 50.0	Qualifier U	RL 50.0	MDL	mg/Kg	<u>D</u>	06/08/22 17:20	06/10/22 00:36	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result < 50.0	Qualifier U	RL 50.0	MDL	mg/Kg	<u>D</u>	06/08/22 17:20	06/10/22 00:36 06/10/22 00:36	1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0 <50.0	Qualifier U U U	RL 50.0	MDL	mg/Kg	<u>D</u>	06/08/22 17:20 06/08/22 17:20	06/10/22 00:36 06/10/22 00:36	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0 <50.0 <50.0	Qualifier U U U	FL 50.0 50.0 50.0	MDL	mg/Kg	<u>D</u>	06/08/22 17:20 06/08/22 17:20 06/08/22 17:20	06/10/22 00:36 06/10/22 00:36 06/10/22 00:36 Analyzed	Dil Fac 1 1 1 Dil Fac

Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Chloride 1600 25.0 06/10/22 21:34 mg/Kg

Client Sample ID: SW Lab Sample ID: 820-4502-7 Date Collected: 06/06/22 16:40 **Matrix: Soil**

Date Received: 06/07/22 09:30

Released to Imaging: 10/21/2022 11:17:43 AM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00202	U	0.00202		mg/Kg		06/09/22 08:48	06/09/22 22:21	
Toluene	<0.00202	U	0.00202		mg/Kg		06/09/22 08:48	06/09/22 22:21	•
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/09/22 08:48	06/09/22 22:21	•
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		06/09/22 08:48	06/09/22 22:21	
o-Xylene	0.00428		0.00202		mg/Kg		06/09/22 08:48	06/09/22 22:21	
Xylenes, Total	0.00428		0.00404		mg/Kg		06/09/22 08:48	06/09/22 22:21	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	107		70 - 130				06/09/22 08:48	06/09/22 22:21	
1,4-Difluorobenzene (Surr) Method: Total BTEX - Tota			70 - 130				06/09/22 08:48	06/09/22 22:21	
Method: Total BTEX - Tota Analyte	I BTEX Calcula Result	tion Qualifier	RL	MDL	Unit	<u>D</u>	06/09/22 08:48 Prepared	Analyzed	Dil Fa
Method: Total BTEX - Tota Analyte	l BTEX Calcula			MDL	Unit mg/Kg	<u>D</u>			
Method: Total BTEX - Tota	I BTEX Calcula Result 0.00428	Qualifier	RL 0.00404	MDL		<u>D</u>		Analyzed	
Method: Total BTEX - Tota Analyte Total BTEX Method: 8015 NM - Diesel	I BTEX Calcula Result 0.00428 Range Organic	Qualifier	RL 0.00404			<u>D</u>		Analyzed	
Method: Total BTEX - Tota Analyte Total BTEX Method: 8015 NM - Diesel Analyte	I BTEX Calcula Result 0.00428 Range Organic	Qualifier s (DRO) (C	RL 0.00404		mg/Kg	=	Prepared	Analyzed 06/10/22 11:39	Dil Fa
Method: Total BTEX - Tota Analyte Total BTEX Method: 8015 NM - Diesel Analyte Total TPH	Range Organic Result Result <49.9	Qualifier s (DRO) (O Qualifier U	RL 0.00404		mg/Kg Unit	=	Prepared	Analyzed 06/10/22 11:39 Analyzed	Dil Fa
Method: Total BTEX - Tota Analyte Total BTEX Method: 8015 NM - Diesel Analyte Total TPH Method: 8015B NM - Diese	Range Organic Result 49.9 Range Organic	Qualifier s (DRO) (O Qualifier U	RL 0.00404	MDL	mg/Kg Unit	=	Prepared	Analyzed 06/10/22 11:39 Analyzed	Dil Fa
Method: Total BTEX - Tota Analyte Total BTEX	Range Organic Result 49.9 Range Organic	Qualifier s (DRO) (Outline Qualifier U ics (DRO) Qualifier	RL 0.00404	MDL	mg/Kg Unit mg/Kg	<u></u> <u>D</u>	Prepared Prepared	Analyzed 06/10/22 11:39 Analyzed 06/10/22 08:41	Dil Fa

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Lab Sample ID: 820-4502-7

Matrix: Soil

Job ID: 820-4502-1

SDG: AR227085

Date Collected: 06/06/22 16:40 Date Received: 06/07/22 09:30

Client Sample ID: SW

Method: 8015B NM - Di	esel Range Organics (DRO) (GC) (Continued)	
	B 11 6 116		_

	esult Qualifier	RL MDL	Unit D	Prepared	Analyzed	Dil Fac
e Organics (Over C28-C36)	<49.9 U	49.9	mg/Kg	06/08/22 17:20	06/10/22 00:58	1
te %Re	overy Qualifier L	Limits		Prepared	Analyzed	Dil Fac
octane (Surr)	108	70 - 130		06/08/22 17:20	06/10/22 00:58	1
nyl (Surr)	114	70 - 130		06/08/22 17:20	06/10/22 00:58	1
re %Reportance (Surr)	overy Qualifier L	<u>Limits</u> 70 - 130	3 3	Prepared 06/08/22 17:20	Analyzed 06/10/22 00:58	Dil F

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	1	D	Prepared	Analyzed	Dil Fac
Chloride	817		5.05		mg/Kg				06/10/22 21:43	1

Client Sample ID: SEW-1

Date Collected: 06/06/22 17:30 Date Received: 06/07/22 09:30

Lab Sample ID: 820-4502-8

Matrix: Soil

Method: 8021B - Volatile O	rganic Compo	unds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/09/22 08:48	06/09/22 22:48	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/09/22 08:48	06/09/22 22:48	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/09/22 08:48	06/09/22 22:48	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		06/09/22 08:48	06/09/22 22:48	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/09/22 08:48	06/09/22 22:48	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/09/22 08:48	06/09/22 22:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				06/09/22 08:48	06/09/22 22:48	1
1,4-Difluorobenzene (Surr)	100		70 - 130				06/09/22 08:48	06/09/22 22:48	1

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	ma/Ka			06/10/22 11:39	1

Method: 8015 NM - Di	iesel Range	Organics	(DRO)	(GC)

	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
١	Total TPH	<50.0	U	50.0	i	mg/Kg			06/10/22 08:41	1

Method: 00156 MM - Diesel K	ange Organi	ics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/08/22 17:20	06/10/22 01:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/08/22 17:20	06/10/22 01:19	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/08/22 17:20	06/10/22 01:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	122		70 - 130				06/08/22 17:20	06/10/22 01:19	1

Method: 300 0 - A	inions Ion Chro	matography - Soluble	

133 S1+

Method: 300.0 - Anions, ion Ci	nromatogra	priy - Solu	DIE						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1100		4.98		mg/Kg			06/10/22 21:52	1

70 - 130

Eurofins Lubbock

06/08/22 17:20 06/10/22 01:19

o-Terphenyl (Surr)

Client: Terracon Consulting Eng & Scientists Job ID: 820-4502-1 Project/Site: Marshall APH Battery SDG: AR227085

Client Sample ID: SEW-2 Lab Sample ID: 820-4502-9

Date Collected: 06/06/22 17:35 Matrix: Soil Date Received: 06/07/22 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/09/22 08:48	06/09/22 23:15	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/09/22 08:48	06/09/22 23:15	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/09/22 08:48	06/09/22 23:15	1
m,p-Xylenes	< 0.00397	U	0.00397		mg/Kg		06/09/22 08:48	06/09/22 23:15	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/09/22 08:48	06/09/22 23:15	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		06/09/22 08:48	06/09/22 23:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				06/09/22 08:48	06/09/22 23:15	1
1,4-Difluorobenzene (Surr)	104		70 - 130				06/09/22 08:48	06/09/22 23:15	1
Method: Total BTEX - Total	BTEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			06/10/22 11:39	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/08/22 17:20	06/10/22 01:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/08/22 17:20	06/10/22 01:41	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/08/22 17:20	06/10/22 01:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	124		70 - 130				06/08/22 17:20	06/10/22 01:41	1
o-Terphenyl (Surr)	133	S1+	70 - 130				06/08/22 17:20	06/10/22 01:41	1

RL

49.9

MDL Unit

MDL Unit

mg/Kg

D

Prepared

Prepared

Result Qualifier

Result Qualifier

<49.9 U

Chloride	415	4.95	mg/Kg	06/10/22 22:01 1
Client Sample ID: EW				Lab Sample ID: 820-4502-10
Date Collected: 06/06/22 17:40				Matrix: Soil

RL

Date Received: 06/07/22 09:30

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte

Analyte

Total TPH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/09/22 08:48	06/09/22 23:43	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/09/22 08:48	06/09/22 23:43	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/09/22 08:48	06/09/22 23:43	1
m,p-Xylenes	<0.00396	U	0.00396		mg/Kg		06/09/22 08:48	06/09/22 23:43	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/09/22 08:48	06/09/22 23:43	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/09/22 08:48	06/09/22 23:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				06/09/22 08:48	06/09/22 23:43	1
1.4-Difluorobenzene (Surr)	104		70 - 130				06/09/22 08:48	06/09/22 23:43	1

Eurofins Lubbock

Dil Fac

Dil Fac

Analyzed

06/10/22 08:41

Analyzed

Job ID: 820-4502-1

SDG: AR227085

Client Sample Results

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Client Sample ID: EW Lab Sample ID: 820-4502-10 Matrix: Soil

Date Collected: 06/06/22 17:40 Date Received: 06/07/22 09:30

Method: Total BTEX - Total BT	EX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			06/10/22 11:39	1
T., .,									

Method: 8015 NM - Diesel Ran	ge Organic	s (DRO) (G	iC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.9	U	49.9		mg/Kg			06/10/22 08:41	

Dil Fac
1
1
1
Dil Fac
1
1
5 5 5

	Method: 300.0 - Anions, Ion Ch	romatogra	phy - Solub	ole						
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Į	Chloride	15.9		5.04		mg/Kg			06/10/22 22:11	1

Lab Sample ID: 820-4502-11 **Client Sample ID: NEW** Date Collected: 06/06/22 17:45 **Matrix: Soil**

Date Received: 06/07/22 09:30

Released to Imaging: 10/21/2022 11:17:43 AM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/09/22 08:48	06/10/22 01:32	
Toluene	<0.00200	U	0.00200		mg/Kg		06/09/22 08:48	06/10/22 01:32	•
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/09/22 08:48	06/10/22 01:32	•
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		06/09/22 08:48	06/10/22 01:32	
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/09/22 08:48	06/10/22 01:32	•
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/09/22 08:48	06/10/22 01:32	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)			70 - 130				06/09/22 08:48	06/10/22 01:32	
1,4-Difluorobenzene (Surr)	101		70 - 130				06/00/22 00:40	06/10/22 01:32	
• ′ ′ ′ ′ ′ ′ ′ ′ ′ ′ ′ ′ ′ ′ ′ ′ ′ ′ ′		tion	70 - 130				06/09/22 06.46	00/10/22 01.32	
Method: Total BTEX - Tota Analyte Total BTEX	I BTEX Calcula	Qualifier	RL 0.00400	MDL		<u>D</u>	Prepared	Analyzed 06/10/22 11:39	Dil Fa
Method: Total BTEX - Tota Analyte Total BTEX Method: 8015 NM - Diesel	I BTEX Calcula Result <0.00400 Range Organic	Qualifier U s (DRO) (0	RL 0.00400		mg/Kg	=	Prepared	Analyzed 06/10/22 11:39	
Method: Total BTEX - Tota Analyte Total BTEX Method: 8015 NM - Diesel Analyte	I BTEX Calcula Result <0.00400 Range Organic Result	Qualifier U s (DRO) (C	RL 0.00400		mg/Kg	<u>D</u>		Analyzed 06/10/22 11:39 Analyzed	
Method: Total BTEX - Tota Analyte Total BTEX Method: 8015 NM - Diesel Analyte	I BTEX Calcula Result <0.00400 Range Organic	Qualifier U s (DRO) (C	RL 0.00400		mg/Kg	=	Prepared	Analyzed 06/10/22 11:39	
Method: Total BTEX - Tota Analyte Total BTEX Method: 8015 NM - Diesel Analyte Total TPH	Range Organic Result <49.9 I Range Organic Result <49.9	Qualifier U S (DRO) (C Qualifier U	RL 0.00400 — GC) RL 49.9		mg/Kg	=	Prepared	Analyzed 06/10/22 11:39 Analyzed	
Method: Total BTEX - Tota Analyte Total BTEX Method: 8015 NM - Diesel Analyte Total TPH Method: 8015B NM - Diese Analyte	Range Organic 	Qualifier U S (DRO) (C Qualifier U ics (DRO) Qualifier	RL 0.00400 GC) RL 49.9 (GC) RL	MDL	mg/Kg	=	Prepared Prepared	Analyzed 06/10/22 11:39 Analyzed	Dil Fac
Method: Total BTEX - Tota Analyte	Range Organic Result <49.9 I Range Organic Result <49.9	Qualifier U S (DRO) (C Qualifier U ics (DRO) Qualifier	RL 0.00400	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 06/10/22 11:39 Analyzed 06/10/22 08:41	Dil Fac

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery SDG: AR227085

Client Sample ID: NEW Lab Sample ID: 820-4502-11 Date Collected: 06/06/22 17:45 Matrix: Soil

Date Received: 06/07/22 09:30

	Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC) (Contin	ued)				
1	Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
(Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/08/22 17:20	06/10/22 02:47	1
.	Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
-	1-Chlorooctane (Surr)	107		70 - 130			06/08/22 17:20	06/10/22 02:47	1
(o-Terphenyl (Surr)	115		70 - 130			06/08/22 17:20	06/10/22 02:47	1

Method: 300.0 - Anions, Ion Ch	romatogra	phy - Solub	le						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	78.5		4.97		mg/Kg			06/10/22 22:20	1

Client Sample ID: F-3 Lab Sample ID: 820-4502-12

Date Collected: 06/06/22 17: Date Received: 06/07/22 09:							_	Matr	ix: Soil
Method: 8021B - Volatile O	rganic Compo	unds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/09/22 08:48	06/10/22 01:59	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/09/22 08:48	06/10/22 01:59	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/09/22 08:48	06/10/22 01:59	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		06/09/22 08:48	06/10/22 01:59	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/09/22 08:48	06/10/22 01:59	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/09/22 08:48	06/10/22 01:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				06/09/22 08:48	06/10/22 01:59	1
1,4-Difluorobenzene (Surr)	102		70 - 130				06/09/22 08:48	06/10/22 01:59	1
- Method: Total BTEX - Total	BTEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			06/10/22 11:39	1
- Method: 8015 NM - Diesel F	Range Organic	s (DRO) (G	SC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1890		50.0		mg/Kg			06/10/22 08:41	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1890		50.0		mg/Kg			06/10/22 08:41	
Method: 8015B NM - Diesel Ra	ange Organ	ics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	646		50.0		mg/Kg		06/08/22 17:20	06/10/22 05:40	•
Diesel Range Organics (Over C10-C28)	1240		50.0		mg/Kg		06/08/22 17:20	06/10/22 05:40	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/08/22 17:20	06/10/22 05:40	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane (Surr)	125		70 - 130				06/08/22 17:20	06/10/22 05:40	
o-Terphenyl (Surr)	123		70 - 130				06/08/22 17:20	06/10/22 05:40	

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Dil Fac

Analyzed

06/10/22 22:48

RL

25.0

MDL Unit

mg/Kg

Prepared

Result Qualifier

1970

Analyte

Chloride

Surrogate Summary

Client: Terracon Consulting Eng & Scientists

Job ID: 820-4502-1 Project/Site: Marshall APH Battery SDG: AR227085

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Soil Prep Type: Total/NA

Lab Sample ID Clien 820-4502-1 WW 820-4502-1 MS WW 820-4502-1 MSD WW 820-4502-2 NWW 820-4502-3 SWW 820-4502-4 F-1 820-4502-5 NW 820-4502-6 F-2 820-4502-7 SW		### BFB1 (70-130) 110 118 111 115 106 111 112	DFBZ1 (70-130) 104 99 98 103 101 99 100	 	
820-4502-1 WW 820-4502-1 MS WW 820-4502-1 MSD WW 820-4502-2 NWW 820-4502-3 SWW 820-4502-4 F-1 820-4502-5 NW 820-4502-6 F-2		110 118 111 115 106 111	104 99 98 103 101 99		
820-4502-1 MS WW 820-4502-1 MSD WW 820-4502-2 NWW 820-4502-3 SWW 820-4502-4 F-1 820-4502-5 NW 820-4502-6 F-2		118 111 115 106 111 112	99 98 103 101 99	 	
820-4502-1 MSD WW 820-4502-2 NWW 820-4502-3 SWW 820-4502-4 F-1 820-4502-5 NW 820-4502-6 F-2		111 115 106 111 112	98 103 101 99		
820-4502-2 NWW 820-4502-3 SWW 820-4502-4 F-1 820-4502-5 NW 820-4502-6 F-2		115 106 111 112	103 101 99		
820-4502-3 SWW 820-4502-4 F-1 820-4502-5 NW 820-4502-6 F-2		106 111 112	101 99		
820-4502-4 F-1 820-4502-5 NW 820-4502-6 F-2		111 112	99		
820-4502-5 NW 820-4502-6 F-2		112			
820-4502-6 F-2			100		
820-4502-7 SW		118	99		
		107	101		
820-4502-8 SEW-	-1	114	100		
820-4502-9 SEW-	-2	116	104		
820-4502-10 EW		113	104		
820-4502-11 NEW		111	101		
820-4502-12 F-3		111	102		

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

			Percen	nt Surrogate Recovery (Acceptance Limi
		BFB1	DFBZ1	
Sample ID	Client Sample ID	(70-130)	(70-130)	
CS 880-27132/1-A	Lab Control Sample	108	105	
CSD 880-27132/2-A	Lab Control Sample Dup	105	100	
IB 880-27132/5-A	Method Blank	82	0.04 S1-	
Surrogate Legend				
BFB = 4-Bromofluorob	enzene (Surr)			
DFBZ = 1,4-Difluorobe	enzene (Surr)			

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

Matrix: Soil Prep Type: Total/NA

_			Perce	nt Surrogate Recovery
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
820-4502-1	WW	115	114	
820-4502-2	NWW	122	126	
820-4502-3	SWW	116	95	
820-4502-4	F-1	131 S1+	133 S1+	
820-4502-5	NW	97	102	
820-4502-6	F-2	101	111	
820-4502-7	SW	108	114	
820-4502-8	SEW-1	122	133 S1+	
820-4502-9	SEW-2	124	133 S1+	
820-4502-10	EW	117	127	
820-4502-11	NEW	107	115	
820-4502-12	F-3	125	123	

Surrogate Summary

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Job ID: 820-4502-1 SDG: AR227085

Surrogate Legend

1CO = 1-Chlorooctane (Surr) OTPH = o-Terphenyl (Surr)

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)						
890-2381-A-1-G MS	Matrix Spike	92	89						
890-2381-A-1-H MSD	Matrix Spike Duplicate	104	102						
LCS 880-27116/2-A	Lab Control Sample	98	100						
LCSD 880-27116/3-A	Lab Control Sample Dup	114	118						
MB 880-27116/1-A	Method Blank	94	99						

1CO = 1-Chlorooctane (Surr) OTPH = o-Terphenyl (Surr)

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QC Sample Results

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Job ID: 820-4502-1 SDG: AR227085

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-27132/5-A

Matrix: Solid

Analysis Batch: 27214

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 27132

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/09/22 08:48	06/09/22 19:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/09/22 08:48	06/09/22 19:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/09/22 08:48	06/09/22 19:11	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		06/09/22 08:48	06/09/22 19:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/09/22 08:48	06/09/22 19:11	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/09/22 08:48	06/09/22 19:11	1

MB MB

MD MD

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82	70 - 130	06/09/22 08:48	06/09/22 19:11	1
1,4-Difluorobenzene (Surr)	0.04 S1-	70 - 130	06/09/22 08:48	06/09/22 19:11	1

Lab Sample ID: LCS 880-27132/1-A

Matrix: Solid

Analysis Batch: 27214

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 27132

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1042		mg/Kg		104	70 - 130	
Toluene	0.100	0.09949		mg/Kg		99	70 - 130	
Ethylbenzene	0.100	0.1045		mg/Kg		105	70 - 130	
m,p-Xylenes	0.200	0.2047		mg/Kg		102	70 - 130	
o-Xylene	0.100	0.1020		mg/Kg		102	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-27132/2-A

Matrix: Solid

Analysis Batch: 27214

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Prep Batch: 27132

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09115		mg/Kg		91	70 - 130	13	35
Toluene	0.100	0.08991		mg/Kg		90	70 - 130	10	35
Ethylbenzene	0.100	0.09402		mg/Kg		94	70 - 130	11	35
m,p-Xylenes	0.200	0.1843		mg/Kg		92	70 - 130	10	35
o-Xylene	0.100	0.09340		mg/Kg		93	70 - 130	9	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 820-4502-1 MS

Released to Imaging: 10/21/2022 11:17:43 AM

Matrix: Soil

Client Sample ID: WW Prep Type: Total/NA Pron Ratch: 27132

Analysis Batch: 27214									Prep E	satcn: 2/132
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.0106	F1	0.100	0.07745	F1	mg/Kg		67	70 - 130	
Toluene	0.128	F1	0.100	0.1508	F1	mg/Kg		23	70 - 130	

QC Sample Results

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Job ID: 820-4502-1

SDG: AR227085

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

Lab Sample ID: 820-4502-1 MS

Matrix: Soil

o-Xylene

Analysis Batch: 27214

Client Sample ID: WW Prep Type: Total/NA Prep Batch: 27132

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Ethylbenzene 0.0492 F1 F2 0.100 0.06368 F1 mg/Kg 14 70 - 130 m,p-Xylenes 0.0374 F1 F2 0.201 0.06816 F1 mg/Kg 15 70 - 130

0.02815 F1

0.100

0.0117 F1 F2 MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 820-4502-1 MSD Client Sample ID: WW

mg/Kg

16

70 _ 130

Matrix: Soil

Analysis Batch: 27214

Prep Type: Total/NA

Prep Batch: 27132 **RPD**

Sample Sample Spike MSD MSD %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 0.0106 F1 0.100 0.08645 70 - 130 35 Benzene mg/Kg 76 11 0.100 37 70 - 130 9 35 Toluene 0.128 F1 0.1647 F1 mg/Kg 49 Ethylbenzene 0.0492 F1 F2 0.100 0.09862 F1 F2 mg/Kg 70 - 130 43 35 0.0374 F1 F2 0.200 0.1447 F1 F2 54 70 - 130 72 35 m,p-Xylenes mq/Kq 0.0117 F1 F2 0.100 0.07040 F1 F2 59 86 35 o-Xylene mg/Kg 70 - 130

MSD MSD

MB MB

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

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

Lab Sample ID: MB 880-27116/1-A

Matrix: Solid

Analyte

C10-C28)

Analysis Batch: 27125

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 27116

Result Qualifier RL **MDL** Unit **Prepared** Analyzed Dil Fac <50.0 U 50.0 06/08/22 17:20 06/09/22 20:34 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 06/08/22 17:20 06/09/22 20:34 mg/Kg Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 06/08/22 17:20 06/09/22 20:34

MB MB

Qualifier Surrogate %Recovery Limits Prepared Analyzed Dil Fac 1-Chlorooctane (Surr) 70 - 130 06/08/22 17:20 06/09/22 20:34 94 99 70 - 130 06/08/22 17:20 06/09/22 20:34 o-Terphenyl (Surr)

Lab Sample ID: LCS 880-27116/2-A

Matrix: Solid

Analysis Batch: 27125

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 27116

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits 1000 1165 116 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 851.9 mg/Kg 85 70 - 130 C10-C28)

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Job ID: 820-4502-1

SDG: AR227085

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

LCS LCS

Lab Sample ID: LCS 880-27116/2-A

Lab Sample ID: LCSD 880-27116/3-A

Lab Sample ID: 890-2381-A-1-G MS

Matrix: Solid

Analysis Batch: 27125

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 27116

%Recovery Qualifier Limits Surrogate 1-Chlorooctane (Surr) 98 70 - 130 o-Terphenyl (Surr) 100 70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 27125

Prep Type: Total/NA

Prep Batch: 27116 %Rec **RPD**

LCSD LCSD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics 1000 1006 mg/Kg 101 70 - 130 15 20 (GRO)-C6-C10 1000 Diesel Range Organics (Over 987.1 mg/Kg 99 70 - 130 15 20

C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	114		70 - 130
o-Terphenyl (Surr)	118		70 - 130

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Matrix: Solid Analysis Batch: 27125 Prep Batch: 27116

	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	997	995.7		mg/Kg		98	70 - 130	
Diesel Range Organics (Over	<49.9	U	997	998.3		mg/Kg		100	70 - 130	

C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane (Surr) 70 - 130 92 o-Terphenyl (Surr) 70 - 130 89

Lab Sample ID: 890-2381-A-1-H MSD

Matrix: Solid

Analysis Batch: 27125

Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Prep Batch: 27116

	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	1000	1142		mg/Kg		113	70 - 130	14	20
Diesel Range Organics (Over	<49.9	U	1000	1158		mg/Kg		116	70 - 130	15	20

C10-C28)

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	104		70 - 130
o-Terphenyl (Surr)	102		70 - 130

QC Sample Results

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Job ID: 820-4502-1 SDG: AR227085

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-27175/1-A

Client Sample ID: Method Blank

Prep Type: Soluble

Client Sample ID: WW

Client Sample ID: NEW

Client Sample ID: NEW

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Analysis Batch: 27311

Matrix: Solid

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/10/22 19:43	1

Lab Sample ID: LCS 880-27175/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 27311

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 90 - 110 256.1 mg/Kg 102

Lab Sample ID: LCSD 880-27175/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 27311

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Limits RPD Limit Analyte Unit %Rec Chloride 250 260.4 104 90 - 110 mg/Kg

Lab Sample ID: 820-4502-1 MS **Client Sample ID: WW Prep Type: Soluble**

Matrix: Soil

Analysis Batch: 27311

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	5750	F1	2500	8667	F1	mg/Kg		117	90 - 110	

Lab Sample ID: 820-4502-1 MSD

Matrix: Soil

Analysis Batch: 27311

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	5750	F1	2500	8706	F1	ma/Ka		118	90 - 110	0	20

Lab Sample ID: 820-4502-11 MS

Matrix: Soil

Analysis Batch: 27311

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	78.5		249	325.5		ma/Ka		99	90 - 110	

Lab Sample ID: 820-4502-11 MSD

Matrix: Soil

Analysis Batch: 27311											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	78.5		249	318.7		mg/Kg		97	90 - 110	2	20

QC Association Summary

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Job ID: 820-4502-1 SDG: AR227085

GC VOA

Prep Batch: 27132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4502-1	WW	Total/NA	Soil	5035	
820-4502-2	NWW	Total/NA	Soil	5035	
820-4502-3	SWW	Total/NA	Soil	5035	
820-4502-4	F-1	Total/NA	Soil	5035	
820-4502-5	NW	Total/NA	Soil	5035	
820-4502-6	F-2	Total/NA	Soil	5035	
820-4502-7	SW	Total/NA	Soil	5035	
820-4502-8	SEW-1	Total/NA	Soil	5035	
820-4502-9	SEW-2	Total/NA	Soil	5035	
820-4502-10	EW	Total/NA	Soil	5035	
820-4502-11	NEW	Total/NA	Soil	5035	
820-4502-12	F-3	Total/NA	Soil	5035	
MB 880-27132/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-27132/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-27132/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
820-4502-1 MS	WW	Total/NA	Soil	5035	
820-4502-1 MSD	WW	Total/NA	Soil	5035	

Analysis Batch: 27214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4502-1	WW	Total/NA	Soil	8021B	27132
820-4502-2	NWW	Total/NA	Soil	8021B	27132
820-4502-3	SWW	Total/NA	Soil	8021B	27132
820-4502-4	F-1	Total/NA	Soil	8021B	27132
820-4502-5	NW	Total/NA	Soil	8021B	27132
820-4502-6	F-2	Total/NA	Soil	8021B	27132
820-4502-7	SW	Total/NA	Soil	8021B	27132
820-4502-8	SEW-1	Total/NA	Soil	8021B	27132
820-4502-9	SEW-2	Total/NA	Soil	8021B	27132
820-4502-10	EW	Total/NA	Soil	8021B	27132
820-4502-11	NEW	Total/NA	Soil	8021B	27132
820-4502-12	F-3	Total/NA	Soil	8021B	27132
MB 880-27132/5-A	Method Blank	Total/NA	Solid	8021B	27132
LCS 880-27132/1-A	Lab Control Sample	Total/NA	Solid	8021B	27132
LCSD 880-27132/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	27132
820-4502-1 MS	WW	Total/NA	Soil	8021B	27132
820-4502-1 MSD	WW	Total/NA	Soil	8021B	27132

Analysis Batch: 27301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4502-1	WW	Total/NA	Soil	Total BTEX	
820-4502-2	NWW	Total/NA	Soil	Total BTEX	
820-4502-3	SWW	Total/NA	Soil	Total BTEX	
820-4502-4	F-1	Total/NA	Soil	Total BTEX	
820-4502-5	NW	Total/NA	Soil	Total BTEX	
820-4502-6	F-2	Total/NA	Soil	Total BTEX	
820-4502-7	SW	Total/NA	Soil	Total BTEX	
820-4502-8	SEW-1	Total/NA	Soil	Total BTEX	
820-4502-9	SEW-2	Total/NA	Soil	Total BTEX	
820-4502-10	EW	Total/NA	Soil	Total BTEX	
820-4502-11	NEW	Total/NA	Soil	Total BTEX	

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6/14/2022 (Rev. 1)

QC Association Summary

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Job ID: 820-4502-1 SDG: AR227085

GC VOA (Continued)

Analysis Batch: 27301 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4502-12	F-3	Total/NA	Soil	Total BTEX	

GC Semi VOA

Prep Batch: 27116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep	Batch
820-4502-1	WW	Total/NA	Soil	8015NM Prep	
820-4502-2	NWW	Total/NA	Soil	8015NM Prep	
820-4502-3	SWW	Total/NA	Soil	8015NM Prep	
820-4502-4	F-1	Total/NA	Soil	8015NM Prep	
820-4502-5	NW	Total/NA	Soil	8015NM Prep	
820-4502-6	F-2	Total/NA	Soil	8015NM Prep	
820-4502-7	SW	Total/NA	Soil	8015NM Prep	
820-4502-8	SEW-1	Total/NA	Soil	8015NM Prep	
820-4502-9	SEW-2	Total/NA	Soil	8015NM Prep	
820-4502-10	EW	Total/NA	Soil	8015NM Prep	
820-4502-11	NEW	Total/NA	Soil	8015NM Prep	
820-4502-12	F-3	Total/NA	Soil	8015NM Prep	
MB 880-27116/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-27116/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-27116/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2381-A-1-G MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2381-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 27125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4502-1	WW	Total/NA	Soil	8015B NM	27116
820-4502-2	NWW	Total/NA	Soil	8015B NM	27116
820-4502-3	SWW	Total/NA	Soil	8015B NM	27116
820-4502-4	F-1	Total/NA	Soil	8015B NM	27116
820-4502-5	NW	Total/NA	Soil	8015B NM	27116
820-4502-6	F-2	Total/NA	Soil	8015B NM	27116
820-4502-7	SW	Total/NA	Soil	8015B NM	27116
820-4502-8	SEW-1	Total/NA	Soil	8015B NM	27116
820-4502-9	SEW-2	Total/NA	Soil	8015B NM	27116
820-4502-10	EW	Total/NA	Soil	8015B NM	27116
820-4502-11	NEW	Total/NA	Soil	8015B NM	27116
820-4502-12	F-3	Total/NA	Soil	8015B NM	27116
MB 880-27116/1-A	Method Blank	Total/NA	Solid	8015B NM	27116
LCS 880-27116/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	27116
LCSD 880-27116/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	27116
890-2381-A-1-G MS	Matrix Spike	Total/NA	Solid	8015B NM	27116
890-2381-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	27116

Analysis Batch: 27252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4502-1	WW	Total/NA	Soil	8015 NM	
820-4502-2	NWW	Total/NA	Soil	8015 NM	
820-4502-3	SWW	Total/NA	Soil	8015 NM	
820-4502-4	F-1	Total/NA	Soil	8015 NM	
820-4502-5	NW	Total/NA	Soil	8015 NM	

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SDG: AR227085

QC Association Summary

Client: Terracon Consulting Eng & Scientists

Job ID: 820-4502-1 Project/Site: Marshall APH Battery

GC Semi VOA (Continued)

Analysis Batch: 27252 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4502-6	F-2	Total/NA	Soil	8015 NM	
820-4502-7	SW	Total/NA	Soil	8015 NM	
820-4502-8	SEW-1	Total/NA	Soil	8015 NM	
820-4502-9	SEW-2	Total/NA	Soil	8015 NM	
820-4502-10	EW	Total/NA	Soil	8015 NM	
820-4502-11	NEW	Total/NA	Soil	8015 NM	
820-4502-12	F-3	Total/NA	Soil	8015 NM	

HPLC/IC

Leach Batch: 27175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4502-1	WW	Soluble	Soil	DI Leach	
820-4502-2	NWW	Soluble	Soil	DI Leach	
820-4502-3	SWW	Soluble	Soil	DI Leach	
820-4502-4	F-1	Soluble	Soil	DI Leach	
820-4502-5	NW	Soluble	Soil	DI Leach	
820-4502-6	F-2	Soluble	Soil	DI Leach	
820-4502-7	SW	Soluble	Soil	DI Leach	
820-4502-8	SEW-1	Soluble	Soil	DI Leach	
820-4502-9	SEW-2	Soluble	Soil	DI Leach	
820-4502-10	EW	Soluble	Soil	DI Leach	
820-4502-11	NEW	Soluble	Soil	DI Leach	
820-4502-12	F-3	Soluble	Soil	DI Leach	
MB 880-27175/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-27175/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-27175/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
820-4502-1 MS	WW	Soluble	Soil	DI Leach	
820-4502-1 MSD	WW	Soluble	Soil	DI Leach	
820-4502-11 MS	NEW	Soluble	Soil	DI Leach	
820-4502-11 MSD	NEW	Soluble	Soil	DI Leach	

Analysis Batch: 27311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4502-1	WW	Soluble	Soil	300.0	27175
820-4502-2	NWW	Soluble	Soil	300.0	27175
820-4502-3	SWW	Soluble	Soil	300.0	27175
820-4502-4	F-1	Soluble	Soil	300.0	27175
820-4502-5	NW	Soluble	Soil	300.0	27175
820-4502-6	F-2	Soluble	Soil	300.0	27175
820-4502-7	SW	Soluble	Soil	300.0	27175
820-4502-8	SEW-1	Soluble	Soil	300.0	27175
820-4502-9	SEW-2	Soluble	Soil	300.0	27175
820-4502-10	EW	Soluble	Soil	300.0	27175
820-4502-11	NEW	Soluble	Soil	300.0	27175
820-4502-12	F-3	Soluble	Soil	300.0	27175
MB 880-27175/1-A	Method Blank	Soluble	Solid	300.0	27175
LCS 880-27175/2-A	Lab Control Sample	Soluble	Solid	300.0	27175
LCSD 880-27175/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	27175
820-4502-1 MS	WW	Soluble	Soil	300.0	27175
820-4502-1 MSD	WW	Soluble	Soil	300.0	27175

QC Association Summary

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Job ID: 820-4502-1 SDG: AR227085

HPLC/IC (Continued)

Analysis Batch: 27311 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4502-11 MS	NEW	Soluble	Soil	300.0	27175
820-4502-11 MSD	NEW	Soluble	Soil	300.0	27175

Job ID: 820-4502-1

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

SDG: AR227085

Client Sample ID: WW

Lab Sample ID: 820-4502-1

Matrix: Soil

Date Collected: 06/06/22 15:30 Date Received: 06/07/22 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	27132	06/09/22 08:48	EL	XEN MID
Total/NA	Analysis	8021B		1			27214	06/09/22 19:39	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			27301	06/10/22 11:39	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27252	06/10/22 08:41	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	27116	06/08/22 17:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27125	06/10/22 04:35	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	27175	06/09/22 11:59	СН	XEN MID
Soluble	Analysis	300.0		10			27311	06/10/22 20:11	CH	XEN MID

Client Sample ID: NWW Lab Sample ID: 820-4502-2

Date Collected: 06/06/22 15:35 **Matrix: Soil**

Date Received: 06/07/22 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	27132	06/09/22 08:48	EL	XEN MID
Total/NA	Analysis	8021B		1			27214	06/09/22 20:06	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			27301	06/10/22 11:39	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27252	06/10/22 08:41	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27116	06/08/22 17:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27125	06/10/22 05:18	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	27175	06/09/22 11:59	CH	XEN MID
Soluble	Analysis	300.0		1			27311	06/10/22 20:38	CH	XEN MID

Client Sample ID: SWW Lab Sample ID: 820-4502-3 Date Collected: 06/06/22 15:40 **Matrix: Soil**

Date Received: 06/07/22 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	27132	06/09/22 08:48	EL	XEN MID
Total/NA	Analysis	8021B		1			27214	06/09/22 20:33	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			27301	06/10/22 11:39	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27252	06/10/22 08:41	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27116	06/08/22 17:20	DM	XEN MID
Total/NA	Analysis	8015B NM		5			27125	06/10/22 04:13	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	27175	06/09/22 11:59	СН	XEN MID
Soluble	Analysis	300.0		10			27311	06/10/22 20:47	CH	XEN MID

Client Sample ID: F-1 Lab Sample ID: 820-4502-4 Date Collected: 06/06/22 15:45

Date Received: 06/07/22 09:30

Released to Imaging: 10/21/2022 11:17:43 AM

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	27132	06/09/22 08:48		XEN MID
Total/NA	Analysis	8021B		1			27214	06/09/22 21:00	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			27301	06/10/22 11:39	AJ	XEN MID

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Matrix: Soil

Job ID: 820-4502-1

SDG: AR227085

Matrix: Soil

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Client Sample ID: F-1

Date Collected: 06/06/22 15:45

Lab Sample ID: 820-4502-4

Matrix: Soil

Date Received: 06/07/22 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			27252	06/10/22 08:41	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27116	06/08/22 17:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27125	06/10/22 04:57	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	27175	06/09/22 11:59	CH	XEN MID
Soluble	Analysis	300.0		5			27311	06/10/22 20:57	CH	XEN MID

Client Sample ID: NW Lab Sample ID: 820-4502-5

Date Collected: 06/06/22 16:30 Date Received: 06/07/22 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	27132	06/09/22 08:48	EL	XEN MID
Total/NA	Analysis	8021B		1			27214	06/09/22 21:27	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			27301	06/10/22 11:39	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27252	06/10/22 08:41	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	27116	06/08/22 17:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27125	06/10/22 00:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	27175	06/09/22 11:59	СН	XEN MID
Soluble	Analysis	300.0		1			27311	06/10/22 21:06	CH	XEN MID

Client Sample ID: F-2

Date Collected: 06/06/22 16:35

Lab Sample ID: 820-4502-6

Matrix: Soil

Date Received: 06/07/22 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	27132	06/09/22 08:48	EL	XEN MID
Total/NA	Analysis	8021B		1			27214	06/09/22 21:54	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			27301	06/10/22 11:39	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27252	06/10/22 08:41	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27116	06/08/22 17:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27125	06/10/22 00:36	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	27175	06/09/22 11:59	CH	XEN MID
Soluble	Analysis	300.0		5			27311	06/10/22 21:34	CH	XEN MID

Client Sample ID: SW

Lab Sample ID: 820-4502-7

Date Collected: 06/06/22 16:40

Matrix: Soil

Date Received: 06/07/22 09:30

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	27132	06/09/22 08:48	EL	XEN MID
Total/NA	Analysis	8021B		1			27214	06/09/22 22:21	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			27301	06/10/22 11:39	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27252	06/10/22 08:41	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.02 g	10 mL	27116 27125	06/08/22 17:20 06/10/22 00:58		XEN MID XEN MID

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Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Lab Sample ID: 820-4502-7

Matrix: Soil

Job ID: 820-4502-1

SDG: AR227085

Date Collected: 06/06/22 16:40 Date Received: 06/07/22 09:30

Client Sample ID: SW

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	27175	06/09/22 11:59	CH	XEN MID
Soluble	Analysis	300.0		1			27311	06/10/22 21:43	CH	XEN MID

Lab Sample ID: 820-4502-8 **Client Sample ID: SEW-1 Matrix: Soil**

Date Collected: 06/06/22 17:30 Date Received: 06/07/22 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	27132	06/09/22 08:48	EL	XEN MID
Total/NA	Analysis	8021B		1			27214	06/09/22 22:48	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			27301	06/10/22 11:39	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27252	06/10/22 08:41	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27116	06/08/22 17:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27125	06/10/22 01:19	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	27175	06/09/22 11:59	CH	XEN MID
Soluble	Analysis	300.0		1			27311	06/10/22 21:52	CH	XEN MID

Lab Sample ID: 820-4502-9 **Client Sample ID: SEW-2 Matrix: Soil**

Date Collected: 06/06/22 17:35 Date Received: 06/07/22 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	27132	06/09/22 08:48	EL	XEN MID
Total/NA	Analysis	8021B		1			27214	06/09/22 23:15	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			27301	06/10/22 11:39	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27252	06/10/22 08:41	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27116	06/08/22 17:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27125	06/10/22 01:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	27175	06/09/22 11:59	CH	XEN MID
Soluble	Analysis	300.0		1			27311	06/10/22 22:01	CH	XEN MID

Client Sample ID: EW Lab Sample ID: 820-4502-10 Date Collected: 06/06/22 17:40 Matrix: Soil

Date Received: 06/07/22 09:30

Released to Imaging: 10/21/2022 11:17:43 AM

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	27132	06/09/22 08:48	EL	XEN MID
Total/NA	Analysis	8021B		1			27214	06/09/22 23:43	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			27301	06/10/22 11:39	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27252	06/10/22 08:41	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	27116	06/08/22 17:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27125	06/10/22 02:25	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	27175	06/09/22 11:59	СН	XEN MID
Soluble	Analysis	300.0		1			27311	06/10/22 22:11	CH	XEN MID

Date Received: 06/07/22 09:30

Lab Chronicle

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Client Sample ID: NEW Lab Sample ID: 820-4502-11 Date Collected: 06/06/22 17:45

Matrix: Soil

Job ID: 820-4502-1

SDG: AR227085

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	27132	06/09/22 08:48	EL	XEN MID
Total/NA	Analysis	8021B		1			27214	06/10/22 01:32	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			27301	06/10/22 11:39	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27252	06/10/22 08:41	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27116	06/08/22 17:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27125	06/10/22 02:47	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	27175	06/09/22 11:59	CH	XEN MID
Soluble	Analysis	300.0		1			27311	06/10/22 22:20	CH	XEN MID

Client Sample ID: F-3 Lab Sample ID: 820-4502-12

Date Collected: 06/06/22 17:50 **Matrix: Soil**

Date Received: 06/07/22 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	27132	06/09/22 08:48	EL	XEN MID
Total/NA	Analysis	8021B		1			27214	06/10/22 01:59	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			27301	06/10/22 11:39	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27252	06/10/22 08:41	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27116	06/08/22 17:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27125	06/10/22 05:40	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	27175	06/09/22 11:59	СН	XEN MID
Soluble	Analysis	300.0		5			27311	06/10/22 22:48	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists

Job ID: 820-4502-1 Project/Site: Marshall APH Battery SDG: AR227085

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority Texas		ogram ELAP	Identification Number	Expiration Date 06-30-22
The following analyte	•	ort, but the laboratory is n	ot certified by the governing authority.	This list may include analytes fo
the agency accorner	oner certification.			
Analysis Method	Prep Method	Matrix	Analyte	
0 ,		Matrix Soil	Analyte Total TPH	

Method Summary

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Job ID: 820-4502-1

טע	ID.	020-4302-1	
S	DG	: AR227085	

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Job ID: 820-4502-1 SDG: AR227085

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
820-4502-1	WW	Soil	06/06/22 15:30	06/07/22 09:30
820-4502-2	NWW	Soil	06/06/22 15:35	06/07/22 09:30
820-4502-3	SWW	Soil	06/06/22 15:40	06/07/22 09:30
820-4502-4	F-1	Soil	06/06/22 15:45	06/07/22 09:30
820-4502-5	NW	Soil	06/06/22 16:30	06/07/22 09:30
820-4502-6	F-2	Soil	06/06/22 16:35	06/07/22 09:30
820-4502-7	SW	Soil	06/06/22 16:40	06/07/22 09:30
820-4502-8	SEW-1	Soil	06/06/22 17:30	06/07/22 09:30
820-4502-9	SEW-2	Soil	06/06/22 17:35	06/07/22 09:30
820-4502-10	EW	Soil	06/06/22 17:40	06/07/22 09:30
820-4502-11	NEW	Soil	06/06/22 17:45	06/07/22 09:30
820-4502-12	F-3	Soil	06/06/22 17:50	06/07/22 09:30

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Project Name Proj		
Figure Contract		WHEN RECEIVED (C) (S) ((0 ()
Contact: Signature B. Hornton Simple-LS ignature B. Hornton Signature B. Hornton B.		
Sampler's Name		Page 1 of 1
Colect Number		
AR227085	B bod:	
Survivors Surv	Met	
6/6/2022 530 X	443) X3T8	Lab Sample ID
66/67022 53-5 X	×	
66/k7022 154 \(\triangle \)	×	
F-1	×	
66/6/2022 10/35 X	×	
66/2022 1040 X SW SW X X X X X X X X X	×	
10년 0 X SEW-1 X X X X X X X X X	×	
566/2022 1735 X SEW-2 X X X X X X X X X	×	
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Date: Time: Received by [Signature] Date: Time: Date: Time: Date: Time: Date: Time: Date: Time: Date: Time: Date: Time: Date: Time: Date: Time: Date: Time: Date: Time: Date: Time: Date: Time: Date: Time: Date: Date	30	ı
Date: Time: Received by (Signature) Date: Time:	me: e-mail re	sults to:
		joseph.guesnier@terraconc.om
Anime: Received by (Signature) Date: Time: Received by (Signature)	aue:	ern.loyd@terracon.com Brady.thornton@terracon.com
		Aaron.adams@terracon.com
Mathin WWW.Waskwater WWaler 5 - Soil Libpald AArt Big CCharcoal tabo St. Studge Container VXA-40 ml vala AGC - fember Gasa. 31 250 ml - Gasa. White mouth PDD - Reside or other		

Loc: 820

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 820-4502-1

SDG Number: AR227085

Login Number: 4502 List Source: Eurofins Lubbock

List Number: 1

Creator: Ruggles, Ashley

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	N/A	

Euronnis Europock

Released to Imaging: 10/21/2022 11:17:43 AM

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<6mm (1/4").

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 820-4502-1 SDG Number: AR227085

Login Number: 4502 List Source: Eurofins Midland
List Number: 2 List Creation: 06/08/22 11:10 AM

Creator: Rodriguez, Leticia

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	N/A	

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Eurofins Lubbock

<6mm (1/4").

Environment Testing America

ANALYTICAL REPORT

Eurofins Lubbock 6701 Aberdeen Ave. Suite 8

Lubbock, TX 79424 Tel: (806)794-1296

Laboratory Job ID: 820-4539-1

Laboratory Sample Delivery Group: AR227085

Client Project/Site: Marshall APH Battery

Revision: 2

For:

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

Attn: Joseph Guesnier

MRAMER

Authorized for release by: 6/14/2022 8:36:55 AM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

Review your project results through

·····LINKS ·······

Have a Question?



Visit us at:

www.eurofinsus.com/Env
Released to Imaging: 10/21/2022 11:17:43 AM

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.

Client: Terracon Consulting Eng & Scientists Project/Site: Marshall APH Battery

Laboratory Job ID: 820-4539-1 SDG: AR227085

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

Coliform MCLs

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

Warranties, Terms, and Conditions

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

ERF = field staff performs tests under NJ State certification #02015 VL = field staff performs tests under NJ State certification #06005 WG = field staff performs tests under NJ State certification #PA001

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

05499

- · Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.
- · The report shall not be reproduced, except in full, without the written consent of the laboratory
- · All samples are collected as "grab" samples unless otherwise identified.
- · Reported results related only to the samples as tested. EQC is not responsible for sample integrity unless sampling has been performed by a member of our staff.
- · EQC is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.
- · Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.
- The following personnel or their deputies have approved the results of the tests performed by EQC: Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).

Jessica Kramer

Project Manager

6/14/2022 8:36:55 AM

RAMER

Client: Terracon Consulting Eng & Scientists Project/Site: Marshall APH Battery

Laboratory Job ID: 820-4539-1 SDG: AR227085

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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Job ID: 820-4539-1

SDG: AR227085

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Surrogate recovery exceeds control limits, high biased. S1+ Indicates the analyte was analyzed for but not detected. U

GC Semi VOA

Qualifier **Qualifier Description**

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

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**

Detection Limit (DoD/DOE) DΙ

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: Marshall APH Battery

Job ID: 820-4539-1 SDG: AR227085

Job ID: 820-4539-1

Laboratory: Eurofins Lubbock

Narrative

Job Narrative 820-4539-1

REVISION

The report being provided is a revision of the original report sent on 6/10/2022. The report (revision 2) is being revised due to Per client email, requesting sample ID change NEW to WW.

Report revision history

The report being provided is a revision of the original report sent on 6/10/2022. The report (revision 2) is being revised due to Per client email, requesting sample ID change NEW to WW.

Revision 1 - 6/13/2022 - Reason - Per client request, changing sample ID from EW to SWW.

Receipt

The samples were received on 6/8/2022 9:26 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.3°C

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: WW (820-4539-1). 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.

GC Semi VOA

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

HPLC/IC

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

Job ID: 820-4539-1

Client: Terracon Consulting Eng & Scientists Project/Site: Marshall APH Battery SDG: AR227085

Client Sample ID: WW Lab Sample ID: 820-4539-1

Date Collected: 06/07/22 14:40 Matrix: Solid Date Received: 06/08/22 09:26

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0504		0.0501		mg/Kg		06/09/22 11:13	06/09/22 20:10	25
Toluene	0.860		0.0501		mg/Kg		06/09/22 11:13	06/09/22 20:10	25
Ethylbenzene	2.16		0.0501		mg/Kg		06/09/22 11:13	06/09/22 20:10	25
m,p-Xylenes	2.02		0.100		mg/Kg		06/09/22 11:13	06/09/22 20:10	25
o-Xylene	0.895		0.0501		mg/Kg		06/09/22 11:13	06/09/22 20:10	25
Xylenes, Total	2.92		0.100		mg/Kg		06/09/22 11:13	06/09/22 20:10	25
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130				06/09/22 11:13	06/09/22 20:10	28
1,4-Difluorobenzene (Surr)	97		70 - 130				06/09/22 11:13	06/09/22 20:10	28
Method: Total BTEX - Total B	TEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	5.99		0.100		mg/Kg			06/10/22 10:31	•
Method: 8015 NM - Diesel Rai	•		•			_			
Analyte		Qualifier	RL _	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Total TPH	314		49.9		mg/Kg			06/10/22 09:46	•
Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	53.9		49.9		mg/Kg		06/09/22 11:40	06/09/22 23:30	•
Diesel Range Organics (Over C10-C28)	260		49.9		mg/Kg		06/09/22 11:40	06/09/22 23:30	,
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/09/22 11:40	06/09/22 23:30	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4 Ohlana atana (O)	106		70 - 130				06/09/22 11:40	06/09/22 23:30	
1-Chlorooctane (Surr)	700								
, ,	112		70 - 130				06/09/22 11:40	06/09/22 23:30	•
1-Chlorooctane (Surr) o-Terphenyl (Surr) Method: 300.0 - Anions, Ion C	112	ıphy - Solu					06/09/22 11:40	06/09/22 23:30	•
, ,	112 Chromatogra	ı phy - Sol u Qualifier		MDL	Unit	<u>D</u>	06/09/22 11:40 Prepared	06/09/22 23:30 Analyzed 06/09/22 14:33	Dil Fac

Client Sample ID: SWW Lab Sample ID: 820-4539-2 Date Collected: 06/07/22 14:45 **Matrix: Solid**

Date Received: 06/08/22 09:26

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.100	U	0.100		mg/Kg		06/09/22 11:24	06/09/22 19:38	50
Toluene	0.486		0.100		mg/Kg		06/09/22 11:24	06/09/22 19:38	50
Ethylbenzene	0.641		0.100		mg/Kg		06/09/22 11:24	06/09/22 19:38	50
m,p-Xylenes	0.510		0.201		mg/Kg		06/09/22 11:24	06/09/22 19:38	50
o-Xylene	0.231		0.100		mg/Kg		06/09/22 11:24	06/09/22 19:38	50
Xylenes, Total	0.741		0.201		mg/Kg		06/09/22 11:24	06/09/22 19:38	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				06/09/22 11:24	06/09/22 19:38	50
1,4-Difluorobenzene (Surr)	92		70 - 130				06/09/22 11:24	06/09/22 19:38	50

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Lab Sample ID: 820-4539-2

06/09/22 11:40 06/09/22 23:52

Client Sample ID: SWW Date Collected: 06/07/22 14:45 Date Received: 06/08/22 09:26

Matrix: Solid

SDG: AR227085

Job ID: 820-4539-1

Method: Total BTEX - Total BT	EX Calculation						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	1.87	0.201	mg/Kg			06/10/22 10:31	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC) Result Qualifier RL **MDL** Unit Analyzed Dil Fac **Analyte** Prepared **Total TPH** 193 50.0 06/10/22 09:46 mg/Kg

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL **MDL** Unit D Prepared Dil Fac Analyzed <50.0 U 50.0 06/09/22 11:40 06/09/22 23:52 Gasoline Range Organics mg/Kg (GRO)-C6-C10 **Diesel Range Organics (Over** 50.0 mg/Kg 06/09/22 11:40 06/09/22 23:52 193 C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 06/09/22 11:40 06/09/22 23:52 50.0 mg/Kg Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane (Surr) 88 70 - 130 06/09/22 11:40 06/09/22 23:52

Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Chloride 4.96 06/09/22 15:52 91.5 mg/Kg

70 - 130

93

Client Sample ID: F-3 Lab Sample ID: 820-4539-3 Date Collected: 06/07/22 14:50 Matrix: Solid

Date Received: 06/08/22 09:26

Released to Imaging: 10/21/2022 11:17:43 AM

o-Terphenyl (Surr)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	1.94		0.100		mg/Kg		06/09/22 11:24	06/09/22 19:58	50
Toluene	8.30		0.100		mg/Kg		06/09/22 11:24	06/09/22 19:58	5
Ethylbenzene	6.89		0.100		mg/Kg		06/09/22 11:24	06/09/22 19:58	5
m,p-Xylenes	6.58		0.200		mg/Kg		06/09/22 11:24	06/09/22 19:58	5
o-Xylene	2.73		0.100		mg/Kg		06/09/22 11:24	06/09/22 19:58	5
Xylenes, Total	9.31		0.200		mg/Kg		06/09/22 11:24	06/09/22 19:58	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	96		70 - 130				06/09/22 11:24	06/09/22 19:58	5
1,4-Difluorobenzene (Surr)	92		70 - 130				06/00/22 11:24	06/09/22 19:58	5
· · ·		tion	70 - 130				00/09/22 11.24	00/03/22 19.30	J
Method: Total BTEX - Total I Analyte	BTEX Calcula Result	tion Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	
`	BTEX Calcula			MDL	Unit mg/Kg	<u>D</u>			
Method: Total BTEX - Total I Analyte Total BTEX	BTEX Calcula Result 26.4	Qualifier	RL 0.200	MDL		<u>D</u>		Analyzed	
Method: Total BTEX - Total I Analyte Total BTEX Method: 8015 NM - Diesel R	BTEX Calcula Result 26.4 ange Organic	Qualifier	RL 0.200		mg/Kg	<u>D</u>		Analyzed	Dil Fa
Method: Total BTEX - Total I Analyte	BTEX Calcula Result 26.4 ange Organic	Qualifier s (DRO) (0	RL 0.200		mg/Kg		Prepared	Analyzed 06/10/22 10:31	Dil Fa
Method: Total BTEX - Total I Analyte Total BTEX Method: 8015 NM - Diesel R Analyte Total TPH	BTEX Calcula Result 26.4 ange Organic Result 842	Qualifier s (DRO) (O	RL 0.200		mg/Kg Unit		Prepared	Analyzed 06/10/22 10:31 Analyzed	Dil Fa
Method: Total BTEX - Total I Analyte Total BTEX Method: 8015 NM - Diesel Ranalyte	BTEX Calcula Result 26.4 ange Organic Result 842 Range Organ	Qualifier s (DRO) (O	RL 0.200	MDL	mg/Kg Unit		Prepared	Analyzed 06/10/22 10:31 Analyzed	Dil Fa
Method: Total BTEX - Total I Analyte Total BTEX Method: 8015 NM - Diesel Ranalyte Total TPH Method: 8015B NM - Diesel	BTEX Calcula Result 26.4 ange Organic Result 842 Range Organ	Qualifier s (DRO) (C Qualifier ics (DRO)	RL 0.200	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 06/10/22 10:31 Analyzed 06/10/22 09:46	Dil Fa

Client Sample Results

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

SDG: AR227085

Client Sample ID: F-3

Lab Sample ID: 820-4539-3

Date Collected: 06/07/22 14:50 Date Received: 06/08/22 09:26 Matrix: Solid

Job ID: 820-4539-1

Analyte OII Range Organics (Over C28-C36)		Qualifier U	RL 50.0	MDL	Unit mg/Kg	<u>D</u>	Prepared 06/09/22 11:40	Analyzed 06/10/22 00:14	Dil Fac
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	95		70 - 130				06/09/22 11:40	06/10/22 00:14	1
o-Terphenyl (Surr)	97		70 - 130				06/09/22 11:40	06/10/22 00:14	1

Method: 300.0 - Anions, Ion Cl	nromatogra	phy - Solu	ble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	144		5.00		mg/Kg			06/09/22 15:59	1

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Surrogate Summary

Client: Terracon Consulting Eng & Scientists

Job ID: 820-4539-1 Project/Site: Marshall APH Battery SDG: AR227085

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	70-130)	
820-4539-1	WW	147 S1+	97	
820-4539-2	SWW	102	92	
820-4539-3	F-3	96	92	
880-15608-A-6-C MS	Matrix Spike	122	95	
880-15608-A-6-D MSD	Matrix Spike Duplicate	108	106	
890-2381-A-1-K MS	Matrix Spike	107	104	
890-2381-A-1-L MSD	Matrix Spike Duplicate	103	102	
LCS 880-27164/1-A	Lab Control Sample	111	104	
LCS 880-27169/1-A	Lab Control Sample	104	99	
LCSD 880-27164/2-A	Lab Control Sample Dup	102	103	
LCSD 880-27169/2-A	Lab Control Sample Dup	109	95	
MB 880-27164/5-A	Method Blank	100	91	
MB 880-27169/5-A	Method Blank	98	97	

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)					
		1CO1	OTPH1				
Lab Sample ID	Client Sample ID	(70-130)	(70-130)				
820-4539-1	WW	106	112				
820-4539-2	SWW	88	93				
820-4539-3	F-3	95	97				
890-2387-A-61-C MS	Matrix Spike	84	82				
890-2387-A-61-D MSD	Matrix Spike Duplicate	84	82				
LCS 880-27170/2-A	Lab Control Sample	115	119				
LCSD 880-27170/3-A	Lab Control Sample Dup	108	112				
MB 880-27170/1-A	Method Blank	83	89				

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

Released to Imaging: 10/21/2022 11:17:43 AM

OTPH = o-Terphenyl (Surr)

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Job ID: 820-4539-1

SDG: AR227085

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-27164/5-A

Matrix: Solid

Analysis Batch: 27136

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 27164

	MB	INIR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/09/22 10:05	06/09/22 12:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/09/22 10:05	06/09/22 12:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/09/22 10:05	06/09/22 12:16	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		06/09/22 10:05	06/09/22 12:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/09/22 10:05	06/09/22 12:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/09/22 10:05	06/09/22 12:16	1
	MD	MD							

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	06/09/22 10:05	06/09/22 12:16	1
1,4-Difluorobenzene (Surr)	91		70 - 130	06/09/22 10:05	06/09/22 12:16	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 27164

Prep Type: Total/NA

Lab Sample ID: LCS 880-27164/1-A **Matrix: Solid**

Lab Sample ID: LCSD 880-27164/2-A

Analysis Batch: 27136

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1125		mg/Kg		112	70 - 130	
Toluene	0.100	0.1094		mg/Kg		109	70 - 130	
Ethylbenzene	0.100	0.1137		mg/Kg		114	70 - 130	
m,p-Xylenes	0.200	0.2276		mg/Kg		114	70 - 130	
o-Xylene	0.100	0.1160		mg/Kg		116	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	111	70 - 130
1,4-Difluorobenzene (Surr)	104	70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 27136

Prep Batch: 27164 Spike LCSD LCSD %Rec **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Benzene 0.100 0.09839 mg/Kg 98 70 - 130 13 35 Toluene 0.100 0.09249 mg/Kg 92 70 - 130 17 35 Ethylbenzene 0.100 0.09674 mg/Kg 97 70 - 130 16 35 m,p-Xylenes 0.200 0.1944 mg/Kg 97 70 - 130 35 16 o-Xylene 0.100 0.09787 70 - 130 35 mg/Kg

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1.4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-15608-A-6-C MS

Matrix: Solid

Analysis Batch: 27136

Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 27164

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0998	0.09163		mg/Kg		92	70 - 130	
Toluene	<0.00200	U	0.0998	0.1028		mg/Kg		102	70 - 130	

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Job ID: 820-4539-1 SDG: AR227085

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

Lab Sample ID: 880-15608-A-6-C MS

Lab Sample ID: 880-15608-A-6-D MSD

Matrix: Solid

Analysis Batch: 27136

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 27164

MS MS %Rec Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Ethylbenzene <0.00200 U 0.0998 0.1103 mg/Kg 110 70 - 130 m,p-Xylenes <0.00399 U 0.200 0.2272 mg/Kg 114 70 - 130 o-Xylene <0.00200 U 0.0998 0.1163 mg/Kg 116 70 _ 130

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 27136

Prep Type: Total/NA

Prep Batch: 27164

Sample Sample Spike MSD MSD %Rec **RPD** Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit Benzene <0.00200 U 0.100 0.1057 mg/Kg 105 70 - 130 14 35 Toluene <0.00200 U 0.100 0.09801 97 70 - 130 35 mg/Kg 5 Ethylbenzene <0.00200 U 0.100 0.1032 mg/Kg 103 70 - 130 7 35 m,p-Xylenes <0.00399 U 0.200 0.2077 mg/Kg 104 70 - 130 9 35 <0.00200 U 0.100 0.1026 102 o-Xylene mg/Kg 70 - 13013

MSD MSD

Surrogate	%Recovery Qual	lifier Limits
4-Bromofluorobenzene (Surr)	108	70 - 130
1,4-Difluorobenzene (Surr)	106	70 - 130

Lab Sample ID: MB 880-27169/5-A

Matrix: Solid

Analysis Batch: 27183

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 27169

MB MB Result Qualifier MDL Unit Analyte RL **Prepared** Analyzed Dil Fac Benzene <0.00200 U 0.00200 mg/Kg 06/09/22 11:24 06/09/22 16:24 1 Toluene <0.00200 U 0.00200 mg/Kg 06/09/22 11:24 06/09/22 16:24 Ethylbenzene <0.00200 U 0.00200 mg/Kg 06/09/22 11:24 06/09/22 16:24 m,p-Xylenes <0.00400 U 0.00400 mg/Kg 06/09/22 11:24 06/09/22 16:24 06/09/22 11:24 06/09/22 16:24 o-Xylene <0.00200 U 0.00200 mg/Kg Xylenes, Total <0.00400 U 0.00400 06/09/22 11:24 06/09/22 16:24 mg/Kg

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared A	nalyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	06/09/22 11:24 06/0	09/22 16:24	1
1,4-Difluorobenzene (Surr)	97		70 - 130	06/09/22 11:24 06/0	09/22 16:24	1

Lab Sample ID: LCS 880-27169/1-A

Matrix: Solid

Analysis Batch: 27183

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 27169

-	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08701		mg/Kg		87	70 - 130	
Toluene	0.100	0.09313		mg/Kg		93	70 - 130	
Ethylbenzene	0.100	0.08725		mg/Kg		87	70 - 130	
m,p-Xylenes	0.200	0.1998		mg/Kg		100	70 - 130	

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Job ID: 820-4539-1

SDG: AR227085

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

Lab Sample ID: LCS 880-27169/1-A

Matrix: Solid Analysis Batch: 27183

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 27169

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits o-Xylene 0 100 0.09882 mg/Kg 99 70 - 130

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

Lab Sample ID: LCSD 880-27169/2-A

Matrix: Solid

Analysis Batch: 27183

Client Sample ID: Lab Control Sample Dup

100

Prep Type: Total/NA

Prep Batch: 27169

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec Benzene 0.100 0.08058 mg/Kg 81 70 - 130 8 35 Toluene 0.100 0.08864 mg/Kg 89 70 - 130 5 35 Ethylbenzene 0.100 0.08534 mg/Kg 85 70 - 130 35 2 0.200 0.1981 99 70 - 130 35 m,p-Xylenes mg/Kg

0.09984

mg/Kg

0.100

LCSD LCSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 109 70 - 130 1,4-Difluorobenzene (Surr) 95 70 - 130

Client Sample ID: Matrix Spike

70 - 130

Prep Type: Total/NA Prep Batch: 27169

Lab Sample ID: 890-2381-A-1-K MS **Matrix: Solid**

o-Xylene

Analysis Batch: 27183

-	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.101	0.1070		mg/Kg		106	70 - 130	
Toluene	<0.00199	U	0.101	0.1057		mg/Kg		105	70 - 130	
Ethylbenzene	<0.00199	U	0.101	0.09944		mg/Kg		99	70 - 130	
m,p-Xylenes	<0.00398	U	0.201	0.2272		mg/Kg		113	70 - 130	
o-Xylene	<0.00199	U	0.101	0.1108		mg/Kg		110	70 - 130	

MS MS

Surrogate	%Recovery Qualitier	Limits
4-Bromofluorobenzene (Surr)	107	70 - 130
1,4-Difluorobenzene (Surr)	104	70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Pron Batch: 27169

Analysis Ratch: 27183

Matrix: Solid

Lab Sample ID: 890-2381-A-1-L MSD

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_	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.0996	0.09863		mg/Kg		99	70 - 130	8	35
Toluene	< 0.00199	U	0.0996	0.09833		mg/Kg		99	70 - 130	7	35
Ethylbenzene	<0.00199	U	0.0996	0.09226		mg/Kg		93	70 - 130	7	35
m,p-Xylenes	<0.00398	U	0.199	0.2103		mg/Kg		106	70 - 130	8	35
o-Xylene	<0.00199	U	0.0996	0.1033		mg/Kg		104	70 - 130	7	35

Eurofins Lubbock

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Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Job ID: 820-4539-1 SDG: AR227085

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

Lab Sample ID: 890-2381-A-1-L MSD

Matrix: Solid

Analysis Batch: 27183

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 27169

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

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

Lab Sample ID: MB 880-27170/1-A

Matrix: Solid

Analysis Batch: 27127

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 27170

MR MR

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg	_	06/09/22 11:40	06/09/22 20:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/09/22 11:40	06/09/22 20:34	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/09/22 11:40	06/09/22 20:34	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	83		70 - 130	06/09/22 11:40	06/09/22 20:34	1
o-Terphenyl (Surr)	89		70 - 130	06/09/22 11:40	06/09/22 20:34	1

Lab Sample ID: LCS 880-27170/2-A

Matrix: Solid

Analysis Batch: 27127

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 27170

	Spil	ke LCS	LCS			%Rec	
Analyte	Adde	ed Result	Qualifier	Unit D	%Rec	Limits	
Gasoline Range Organics		953.3		mg/Kg	95	70 - 130	
(GRO)-C6-C10 Diesel Range Organics (Over	100	00 917.9		mg/Kg	92	70 - 130	
C10-C28)							

LCS LCS

Surrogate	%Recovery Qualifie	r Limits
1-Chlorooctane (Surr)	115	70 - 130
o-Terphenyl (Surr)	119	70 - 130

Lab Sample ID: LCSD 880-27170/3-A

Matrix: Solid

Analysis Batch: 27127

Cliont 9	Sample	ID: I ah	Control	Sample	Dun
CHEIL .	Janua	ID. Lau	COILLIO	Januar	s vuv

Prep Type: Total/NA

Prep Batch: 27170

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	834.9		mg/Kg		83	70 - 130	13	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	832.9		mg/Kg		83	70 - 130	10	20
C10-C28)									

LCSD LCSD

Surrogate	%Recovery Qualit	fier Limits
1-Chlorooctane (Surr)	108	70 - 130
o-Terphenyl (Surr)	112	70 - 130

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Job ID: 820-4539-1 SDG: AR227085

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

Lab Sample ID: 890-2387-A-61-C MS Client Sample ID: Matrix Spike

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 27127 Prep Batch: 27170

	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	997	877.0		mg/Kg		88	70 - 130	
Diesel Range Organics (Over	<49.9	U	997	800.5		mg/Kg		79	70 - 130	

C10-C28)

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	84		70 - 130
o-Terphenyl (Surr)	82		70 - 130

Lab Sample ID: 890-2387-A-61-D MSD **Client Sample ID: Matrix Spike Duplicate**

Matrix: Solid

Analysis Batch: 27127

Diesel Range Organics (Over

Prep Type: Total/NA Prep Batch: 27170

808.6

mg/Kg

79

70 - 130

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec Gasoline Range Organics <49.9 U 1000 947.0 95 70 - 130 8 20 mg/Kg (GRO)-C6-C10

1000

C10-C28)

MSD MSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane (Surr) 84 70 - 130 o-Terphenyl (Surr) 82 70 - 130

<49.9 U

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-27168/1-A **Client Sample ID: Method Blank Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 27202

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/09/22 13:22	1

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 880-27168/2-A **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 27202

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 248.0 mg/Kg 99 90 - 110

Lab Sample ID: LCSD 880-27168/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 27202

LCSD LCSD **RPD** Spike %Rec Added Analyte Result Qualifier Unit D %Rec Limits **RPD** Limit 250 Chloride 248.9 mg/Kg 100 90 - 110 20

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Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Job ID: 820-4539-1

SDG: AR227085

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-2390-A-5-C MS **Client Sample ID: Matrix Spike**

Matrix: Solid

Analysis Batch: 27202

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	145		253	390.6		mg/Kg		97	90 - 110	

Lab Sample ID: 890-2390-A-5-D MSD **Client Sample ID: Matrix Spike Duplicate Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 27202

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	145		253	391.6		mg/Kg		98	90 - 110	0	20

Prep Type: Soluble

QC Association Summary

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Job ID: 820-4539-1 SDG: AR227085

GC VOA

Analysis Batch: 27136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4539-1	WW	Total/NA	Solid	8021B	27164
MB 880-27164/5-A	Method Blank	Total/NA	Solid	8021B	27164
LCS 880-27164/1-A	Lab Control Sample	Total/NA	Solid	8021B	27164
LCSD 880-27164/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	27164
880-15608-A-6-C MS	Matrix Spike	Total/NA	Solid	8021B	27164
880-15608-A-6-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	27164

Prep Batch: 27164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4539-1	WW	Total/NA	Solid	5035	
MB 880-27164/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-27164/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-27164/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-15608-A-6-C MS	Matrix Spike	Total/NA	Solid	5035	
880-15608-A-6-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 27169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4539-2	SWW	Total/NA	Solid	5035	_
820-4539-3	F-3	Total/NA	Solid	5035	
MB 880-27169/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-27169/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-27169/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2381-A-1-K MS	Matrix Spike	Total/NA	Solid	5035	
890-2381-A-1-L MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 27183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4539-2	SWW	Total/NA	Solid	8021B	27169
820-4539-3	F-3	Total/NA	Solid	8021B	27169
MB 880-27169/5-A	Method Blank	Total/NA	Solid	8021B	27169
LCS 880-27169/1-A	Lab Control Sample	Total/NA	Solid	8021B	27169
LCSD 880-27169/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	27169
890-2381-A-1-K MS	Matrix Spike	Total/NA	Solid	8021B	27169
890-2381-A-1-L MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	27169

Analysis Batch: 27284

Lab Sample ID 820-4539-1	Client Sample ID WW	Prep Type Total/NA	Matrix Solid	Method Total BTEX	Prep Batch
820-4539-2	SWW	Total/NA	Solid	Total BTEX	
820-4539-3	F-3	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 27127

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Lab Sample ID 820-4539-1	Client Sample ID	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch 27170
820-4539-2	SWW	Total/NA	Solid	8015B NM	27170
820-4539-3	F-3	Total/NA	Solid	8015B NM	27170
MB 880-27170/1-A	Method Blank	Total/NA	Solid	8015B NM	27170
LCS 880-27170/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	27170

QC Association Summary

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Job ID: 820-4539-1 SDG: AR227085

GC Semi VOA (Continued)

Analysis Batch: 27127 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-27170/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	27170
890-2387-A-61-C MS	Matrix Spike	Total/NA	Solid	8015B NM	27170
890-2387-A-61-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	27170

Prep Batch: 27170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4539-1	WW	Total/NA	Solid	8015NM Prep	
820-4539-2	SWW	Total/NA	Solid	8015NM Prep	
820-4539-3	F-3	Total/NA	Solid	8015NM Prep	
MB 880-27170/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-27170/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-27170/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2387-A-61-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2387-A-61-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 27262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4539-1	WW	Total/NA	Solid	8015 NM	
820-4539-2	SWW	Total/NA	Solid	8015 NM	
820-4539-3	F-3	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 27168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4539-1	WW	Soluble	Solid	DI Leach	
820-4539-2	SWW	Soluble	Solid	DI Leach	
820-4539-3	F-3	Soluble	Solid	DI Leach	
MB 880-27168/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-27168/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-27168/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2390-A-5-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2390-A-5-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 27202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4539-1	WW	Soluble	Solid	300.0	27168
820-4539-2	SWW	Soluble	Solid	300.0	27168
820-4539-3	F-3	Soluble	Solid	300.0	27168
MB 880-27168/1-A	Method Blank	Soluble	Solid	300.0	27168
LCS 880-27168/2-A	Lab Control Sample	Soluble	Solid	300.0	27168
LCSD 880-27168/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	27168
890-2390-A-5-C MS	Matrix Spike	Soluble	Solid	300.0	27168
890-2390-A-5-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	27168

Lab Chronicle

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

SDG: AR227085

Client Sample ID: WW

Lab Sample ID: 820-4539-1

Date Collected: 06/07/22 14:40 Date Received: 06/08/22 09:26

Matrix: Solid

Job ID: 820-4539-1

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	27164	06/09/22 11:13	MR	XEN MID
Total/NA	Analysis	8021B		25			27136	06/09/22 20:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27284	06/10/22 10:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27262	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27170	06/09/22 11:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27127	06/09/22 23:30	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	27168	06/09/22 12:00	СН	XEN MID
Soluble	Analysis	300.0		1			27202	06/09/22 14:33	CH	XEN MID

Lab Sample ID: 820-4539-2

Date Collected: 06/07/22 14:45

Date Received: 06/08/22 09:26

Client Sample ID: SWW

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	27169	06/09/22 11:24	EL	XEN MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	27183	06/09/22 19:38	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27284	06/10/22 10:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27262	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27170	06/09/22 11:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27127	06/09/22 23:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	27168	06/09/22 12:00	СН	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	27202	06/09/22 15:52	CH	XEN MID

Client Sample ID: F-3 Lab Sample ID: 820-4539-3

Date Collected: 06/07/22 14:50 Date Received: 06/08/22 09:26

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	27169	06/09/22 11:24	EL	XEN MID
Total/NA	Analysis	8021B		50	5 mL	5 mL	27183	06/09/22 19:58	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27284	06/10/22 10:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			27262	06/10/22 09:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27170	06/09/22 11:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27127	06/10/22 00:14	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	27168	06/09/22 12:00	CH	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	27202	06/09/22 15:59	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists

Job ID: 820-4539-1 Project/Site: Marshall APH Battery SDG: AR227085

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-21-22	06-30-22
The following analyte	e are included in this reno	art but the laboratory is r	ant nortified by the governing outbarity	This list may include analytes for u
the agency does not	offer certification.	•	not certified by the governing authority.	This list may include analytes for w
	•	Matrix	Analyte	This list may include analytes for w
the agency does not	offer certification.	•	, , ,	This list may include analytes for w

Method Summary

Client: Terracon Consulting Eng & Scientists

Project/Site: Marshall APH Battery

Job ID: 820-4539-1 SDG: AR227085

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Lubbock

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Sample Summary

Client: Terracon Consulting Eng & Scientists

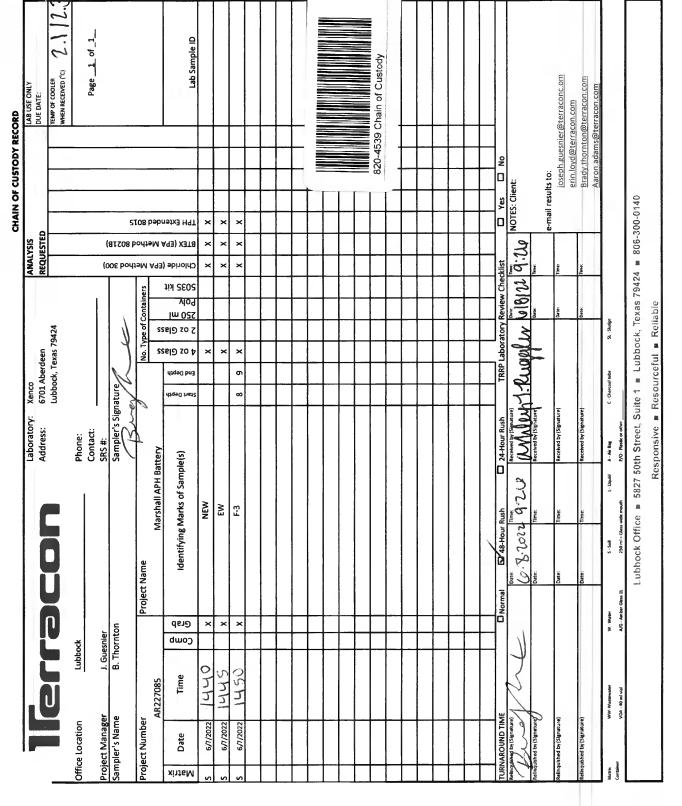
Project/Site: Marshall APH Battery

Job ID: 820-4539-1

SDG: AR227085

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
820-4539-1	WW	Solid	06/07/22 14:40	06/08/22 09:26
820-4539-2	SWW	Solid	06/07/22 14:45	06/08/22 09:26
820-4539-3	F-3	Solid	06/07/22 14:50	06/08/22 09:26

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Eurofins Lubbock

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Relinquished by Relinquished by Relinquished by Relinquished by Relinquished by Date/Time: Date/Time: Date/Time:	Two follows Date Time: Date Time: Date Time:	Throughout Date/Time: 122	nquished by:			Deliverable Requested I. II. IV. Other (specify) Primary Deliverable Rank	Possible Hazard Identification	laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the 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 complicance 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 complicance to Eurofins Environment Testing South Central, LLC.	Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC					F-3 (820-4539-3) 6/7/22 Ce	6/7/22	6//22		Sample Identification - Client ID (Lab ID) Sample Date T	SUW#:	shall APH Battery	Project Name:	Email WO#	Phone: PO#: 432-704-5440(Tel)	State, Zip. TX, 79701	City TAT Requested (days).	1211 W Florida Ave , 6/10/2022	s Environment Testing South Centr	Shipping/Receiving	ormation (Sub Contract Lab)		
		Mar a Brand a state of	7:00		Zais. N	Rank o		x being analyzed the sa	⊋ places the ownership					Central	Central	Central	14 40 Preserva	Sample Type Sample (C=comp, Time G=grab)												Chain of Custody Record	
	Company	Company	Company	L				amples must be sh	of method analyte					Solid	Solid	Solid	Preservation Code: X	Matrix (W=water S=solid, O=waste/oil, D=waste/oil, BT=Tissue, A=Air)	l Same	ie (Y	BS OF	No)					Z ≿	E-Mail: Jessica	Lab PM: Kramer	tody Re	
Coole	Recei	Recei	Recei	Time:	Special Instructions/QC	[R	Sample	ipped back turnent to date) & accredita					×	×	×	X	Perform MS/ 8021B/5035FP	MSD (1	'es o	No)						Accreditations Required NELAP - Texas		Lab PM: Kramer, Jessica	cord	
Cooler Temperature(s) °C	Received by	fed by	7	+	nstructiv	Return To Client	Dispos	o the Euro	tion comp		-	-	-	×	×	×		Total_BTEX_G		LEAC	H Chie	oride					Required (See note): •xas)et.euro			
			B		ons/QC	Client	al (A fe	ifins Envii e signed	lance un					×	×	×		8015MOD_NM		1_S_F	rep (f	MOD) Full	ТРН		Ana	(See note	finsus c			
			2		Requirements		e may	conment T	an out sub					×	×	×		8015MOD_Cal	c						_	lysis	в):	mom			
and Other Remarks.			D		ements	Disp	be asse	esting Sc	*contract																	Requested		Sta Te	င္မ		
ks.			10	Metho		Disposal By Lab	ssed ii	ttesting to	ahoratori																	sted		State of Origin: Texas	Carrier Tracking No(s)		
_	Date	Date	Date	Method of Shipment:		Lab	sampl	al LLC la	ie Thie e					-								<u> </u>						D.	ing No(s)		
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			g			Archive For	Sample Disposal (A fee may be assessed if samples are retained longer than 1	structions will be p	forwarded under o									Special Ir	Other:	EDA	J DI Water	H Ascorbic Acid	F MeOH G Amchlor	D Nitric Acid	,	Preservation Codes	Job#: 820-4539-1	Page: Page 1 of 1	COC No 820-4004 1	🐝 eurotins)
	Company	Company	Company			Months	1 month)	orialn-or-custody if the provided. Any changes to sting South Central LLC.	choice of acceptance of the									Special Instructions/Note:		Y Trizma Z - other (specify)	V MCAA W - pH 4-5	U - Acetone	R - Na2S2O3 S - H2SO4	P - Na2O4S Q - Na2SO3	N - None O AsNaO2	- 1				Environment Testing America	

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 820-4539-1

SDG Number: AR227085

Login Number: 4539 List Source: Eurofins Lubbock

List Number: 1

Creator: Ruggles, Ashley

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	N/A	

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<6mm (1/4").

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 820-4539-1 SDG Number: AR227085

List Source: Eurofins Midland

List Source: Eurofins Midland
List Number: 2
List Creation: 06/09/22 11:11 AM

Creator: Rodriguez, Leticia

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	

Eurofins Lubbock

Released to Imaging: 10/21/2022 11:17:43 AM

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APPENDIX E – 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.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 117937

CONDITIONS

Operator:	OGRID:
Spur Energy Partners LLC	328947
9655 Katy Freeway Houston, TX 77024	Action Number: 117937
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Create	By Condition	Condition Date
rhar	We have received your closure report and final C-141 for Incident #NAPP2208043246 MARSHALL APH BATTERY, thank you. This closure is approved.	10/21/2022