

October 5, 2023

Attn: New Mexico Oil Conservation Division

1220 South St. Francis Drive

Santa Fe, NM 87505

## RE: Release Investigation, and Closure Report

Mobley Water Recycling Facility
Unit C, Section 19, Township 23 South, Range 30 East
32.2958135°, -103.9252036°
Eddy County, New Mexico
Terracon Project No. KH227027
NMOCD Incident No. nAPP2234144689

#### To Whom It May Concern:

Terracon Consultants, Inc. (Terracon) is pleased to submit our Release Investigation and Closure Report for the site referenced above. The scope of services was developed and executed in accordance with the New Mexico Oil Conservation Division (NMOCD) regulations governing environmental response actions required for releases of crude oil and produced water. The response actions were taken in response to a produced water release from an overfilled treatment tank on December 6, 2022, at the Mobley Water Recycling Facility. The below sections detail Terracon's assessment and remediation actions in response to the noted release.

#### **Action Items**

### **Completed Actions**

- 1) The release assessment activities were executed between January and April 2023.
- 2) Release assessment maps and laboratory data summary tables are attached within Appendices A, B, and D. A photographic log is included in Appendix C.
- 3) Vertical and horizontal delineation boundaries were achieved through the demonstration of constituents of concern at concentrations below applicable NMOCD Reclamation and Remediation Standards. Excavation confirmation sampling was executed to be representative of a 200-square-foot (sf) assessment area. Confirmation sampling concluded in August 2023.
- 4) Remediation efforts were executed between February and July 2023 and consisted of the excavation of materials identified to exhibit concentrations above NMOCD Reclamation and Remediation Standards (approximately 2,500 cubic yards (cy)). The exhumed materials were disposed of at Lea Land Landfill, a permitted disposal facility.
- 5) Upon completion of the removal and disposal of the impacted material, the excavation was backfilled with native material to the surrounding grade and reseeded.

Mobley Water Recycling Facility 32.2958135°, -103.9252036° NMOCD Reference # nAPP2234144689 Terracon Project # KH227027



### **Aanticipated Actions**

1) Approval by the NMOCD.

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

Sincerely,

**Terracon Consultants, Inc.** 

Travis Casey

Senior Staff Scientist

Carlsbad

Erin Løyd, P.G. (TX)

Senior Principal

Office Manager – Lubbock

#### CC:

Rob Kirk, Vice President of Environmental Compliance Solaris Water Midstream, LLC 907 Tradewinds Blvd, Suite B Midland, Texas 79706

#### **TABLE OF CONTENTS**

## Table of Contents

Section 1 – Incident Information	2
Section 2 – General Site Characteristics	3
Section 3 – Regulatory Framework and Response Action Levels	4
Section 4 – Investigation Activities	5
Section 5 – Investigation Assessment	5
Section 6 – Remediation Activities	. 5
Section 7 - Remediation Confirmation Assessment	6
Section 8 – Analytical Results	. 6
Section 9 – Conclusion and Closure Request	7

#### **Attachments:**

### Appendix A - Exhibits

Exhibit 1 - Topographic Map

Exhibit 2 – Site Location Map

Exhibit 3 – Site Sample Map

Exhibit 4 – Background Sample Map

Exhibit 5 - Confirmation Sample Map

Exhibit 6 - NMOSE POD Location Map

Exhibit 7 - Designated Wetland Area Map

Exhibit 8 - Cave Karst Public UCP Map

#### Appendix B - Tables and Well Data

Table 1 - Release Assessment

Table 2 – Background Soil Assessment

Table 3 - Confirmation Evaluation (Floor Samples)

Table 4 – Confirmation Evaluation (Wall Samples)

## **Appendix C - Photographic Log**

**Appendix D – Analytical Report and Chain of Custody** 

Appendix E - Initial Form C-141 and Final Form C-141

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

Mobley Water Recycling Facility 32.2958135°, -103.9252036° NMOCD Reference # nAPP2234144689 Terracon Project # KH227027



## **Section 1 – Incident Information**

The following table provides detailed information regarding the December 06, 2022, produced water release at the Mobley Water Recycling Facility (Mobley) site in Eddy County, New Mexico:

Required Information	Site and Release information						
Responsible party	The facility is operated b	The facility is operated by Solaris Water Midstream, LLC.					
Local contact	Contact: Mr. Rob Kirk P: (575)-300-5155 E: rob.kirk@ariswater.com						
NMOCD Notification	Notice of the release was Office by Mr. Rob Kirk or NMOCD Reference ID: na	-					
Facility Description	The site is located within Range 30 East, approxi New Mexico. The site is	Facility is in Eddy County, New Mexico. Unit C, Section 19, Township 23 South, mately 9.85 miles northeast of Loving, predominantly developed as an oil and surrounded by native pastureland and owner.					
Time of incident	December 06, 2022, disc	covered during routine maintenance.					
Discharge event	i ·	of fuel, resulting in an overflow of the ce is illustrated in Exhibits 1 and 2 of					
Type of discharge	The documented produced water release occurred in an oil and gas production well pad, a privately owned, native pastureland area. Soils at the site are affected at the surface and 4 ft. below.						
Quantity of spilled material	Total Fluids: 70 bbls Produced Water: 70 bbls						
Site characteristics	Relatively flat with drainage following the natural ground surface.						
Immediate corrective actions		contained, and excess free fluids were om the secondary containment.					

Mobley Water Recycling Facility 32.2958135°, -103.9252036° NMOCD Reference # nAPP2234144689 Terracon Project # KH227027



Section 2 - Genera	l Site Characteristics
Physical Characteristic	Site Ranking Characteristics
Groundwater  NMOSE POD Location  Map  (Exhibit 5 in Appendix A)  Surface Water  NM Wetland Map –  (Exhibit 6 in Appendix A)	POD Number: (C-04472 POD 1) Depth to Groundwater: 37 ft. bgs Distance to Well: 0.63 miles to the northeast Date Drilled: August 19, 2023  Groundwater Quality: Groundwater quality at the site is predominately used for environmental monitoring.  Salt Lake (unnamed), approximately 2.15 miles to the northwest.
100-Year Flood Plain	This site is located outside the 100-year flood plain of the Pecos River.
Soil Characteristics	Soils at the site are mapped as Reeves-Gypsum Land Complex series soils, 0 to 3 percent slopes, well-drained; 0 to 8 inches loam; noncalcareous. (6 to 12 inches thick). The formation is categorized with a very high runoff classification.
Karst Characterization Cave Karst Public UCP Map (Exhibit 7 in Appendix A)	Terracon evaluated data from the NMOCD Public FTP Site, Karst map designations in reference to the site location. The site appears to be within a high-level Karst risk area. Based on onsite observations within the extent of the release margins, the potential for Karst formations in this specific area is low potential, as illustrated in Exhibit 7. Restrictive features were not encountered from surface to 60 inches below grade surface (bgs) within the release margins. The full extent of release quantities and excavation activities did not extend greater than 60 inches bgs.

Mobley Water Recycling Facility 32.2958135°, -103.9252036° NMOCD Reference # nAPP2234144689 Terracon Project # KH227027



## **Section 3 – 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 Revegetation (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 Mobley Water Recycling Facility.

### Section 3.1 – Reclamation Levels (Surface to 4 ft. bgs)

The below Reclamation Limits for chloride, total petroleum hydrocarbons (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

#### **Section 3.2 – Remediation Levels**

Based on the elevated Karst designation, the applicable NMOCD remediation levels for chloride, TPH, BTEX, and benzene within soils, exclusive of the Reclamation Zone (surface to 4 ft. bgs), are as follows:

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

Facilities | Environmental | Geotechnical | Materials 4

Mobley Water Recycling Facility 32.2958135°, -103.9252036° NMOCD Reference # nAPP2234144689 Terracon Project # KH227027



## Section 4 - Investigation Activities

On December 16, 2022, Rob Kirk with Solaris assigned the incident to Terracon for an initial investigation. Following the contract approvals and coordinating field activities Terracon collected initial release samples on January 4, 2023.

On January 30, 2023, Terracon provided a proposal for remediation at the site to Solaris for their approval, additionally, Solaris was informed of standing water just south of the release and the project was put on hold to determine the source of the water. The water was determined to be an intermittent spring as explained by the landowner.

Following the approval of the proposal, Terracon began remediation activities at the site in February 2023.

## **Section 5 – Investigation Assessment**

A total of 23 samples were collected from the inferred release area, with a total of 10 representative background samples (E-BH-1 - W-BH-4), 7 samples representing the horizontal delineation (HS-1 - HS-7) of the release, and a total of six samples were collected within the inferred release area (HA-1 - HA4) to determine the vertical delineation of the release.

Laboratory analytical results are illustrated in Appendix A, Exhibits 3 and 4, and in Appendix B, Tables 1 and 2.

Collected samples were placed in laboratory-provided sample containers, preserved with ice, and transported under chain of custody to Eurofins Laboratory in Carlsbad, New Mexico for analysis of chloride, TPH, BTEX, and benzene.

## **Section 6 – Remediation Activities**

From February 17 to July 25, 2023, Terracon conducted remediation activities at the site through the removal of soils characterized by analytical data as being above applicable NMOCD Reclamation and Remediation standards to depths ranging from approximately 2 to 4 feet bgs.

The project experienced delays due to the proximity of the release to sub-surface highpressure lines to the south and west of the inferred release area as seen in Exhibit 2 of Appendix A. The project was completed in two steps, first, the release outside of the fenced-

Facilities | Environmental | Geotechnical | Materials 5

Mobley Water Recycling Facility 32.2958135°, -103.9252036° NMOCD Reference # nAPP2234144689 Terracon Project # KH227027



in facility was addressed from February 2023 to April 2023, and the remaining area within the fenced-in facility was completed in July 2023.

The delay in completing the final portion of the remediation was due to the need to shut down operations within the fence to facilitate the remediation.

Approximately 2,500 cubic yards of soil were excavated and stockpiled atop a polyethylene liner pending waste characterization and disposal under an approved Form C-138. Excavation efforts were ceased based on the results of the composite soil sample laboratory analysis. Results are detailed in Sections 5 and 6. Excavated materials were disposed of at the Lea Land Landfill Facility.

## **Section 7 - Remediation Confirmation Assessment**

A total of 28-floor confirmation composite soil samples (FS-01 through FS-15.1) and 30 wall confirmation composite soil samples (N-SW-01 through W-SW-06.2) are representative of the excavation boundaries located outside and inside of the fenced facility.

Collected samples were placed in laboratory-provided sample containers, preserved with ice, and transported under chain of custody to Eurofins Laboratory in Carlsbad, New Mexico for analysis of chloride, TPH, BTEX, and benzene.

## **Section 8 - Analytical Results**

Composite soil samples collected from February 17, 2023, through August 21, 2023, did not exhibit concentrations of BTEX or TPH (EPA Method 8015M) above laboratory SDLs. The sole exception being N-SW-2 (surface to 5 ft bgs) that had a total TPH concentration of 209 mg/kg, but following subsequent remedial efforts exhibited no concentrations above SDLs.

The soil samples collected from the excavation areas exhibited concentrations of chloride above laboratory sample detection limits and ranged from 55.3 mg/kg in FS-02(4-4.5 feet) to 9,630 mg/kg in FS-06 (5 feet). Chloride concentrations generally decrease with sample depth as exhibited in samples FS-04 (4 feet) and FS-04 (4.5 feet). Sample FS-04 at 4 feet contained a chloride concentration of 324 mg/kg, and at 4.5 feet contained a chloride concentration of 178 mg/kg.

On March 30, 2023, Terracon collected background soil samples from around the Mobley Site. The Boreholes established a background chloride concentration in the soil in the area at a depth of 4 to 5 feet. Results of these sampling events indicate that background chloride

Facilities | Environmental | Geotechnical | Materials 6

Mobley Water Recycling Facility 32.2958135°, -103.9252036° NMOCD Reference # nAPP2234144689 Terracon Project # KH227027



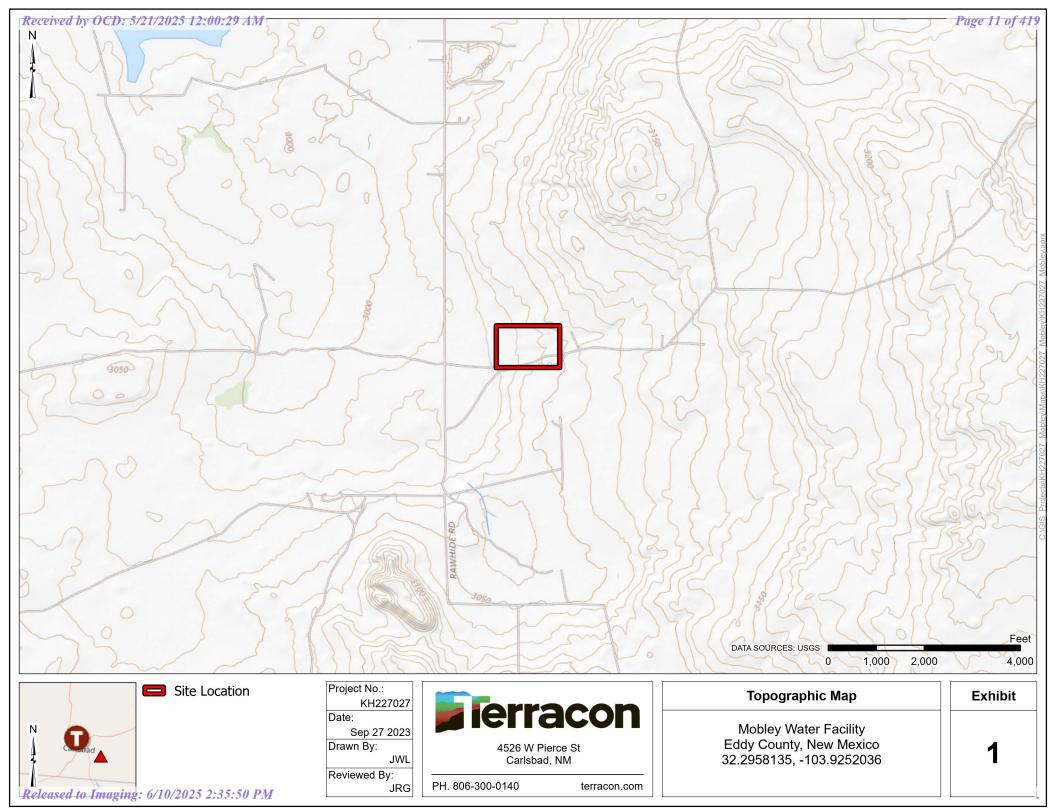
concentrations in soils are found to exist at levels ranging from 42.3 mg/kg to 1,910 mg/kg in soil samples collected from surface to 5 ft. bgs. The chloride concentrations observed in the Mobley Borehole area appear to be indicative of background levels in the area. The collection of the samples followed the Procedures for Implementation of the Spill Rule (19.15.29 NMAC); Section XII.

A summary of BTEX, chloride, and TPH concentrations of all collected soil samples is attached as Table 1.

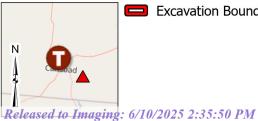
## **Section 9 - Conclusion and Closure Request**

Based on the laboratory results of the confirmation sampling following excavation activities, the response action of the release at the Mobley Water Recycling facility on February 17, 2023, through April 20, 2023, has met the closure criteria defined in accordance with NMAC 19.15.29.12. Terracon respectfully requests regulatory closure of incident nAPP2234144689 on behalf of Solaris Water Midstream.

# **APPENDIX A - EXHIBITS**







**Excavation Boundary** 

Project No.: KH227027

Date:

Sep 27 2023

Drawn By: JWL

Reviewed By: JRG



4526 W Pierce St Carlsbad, NM

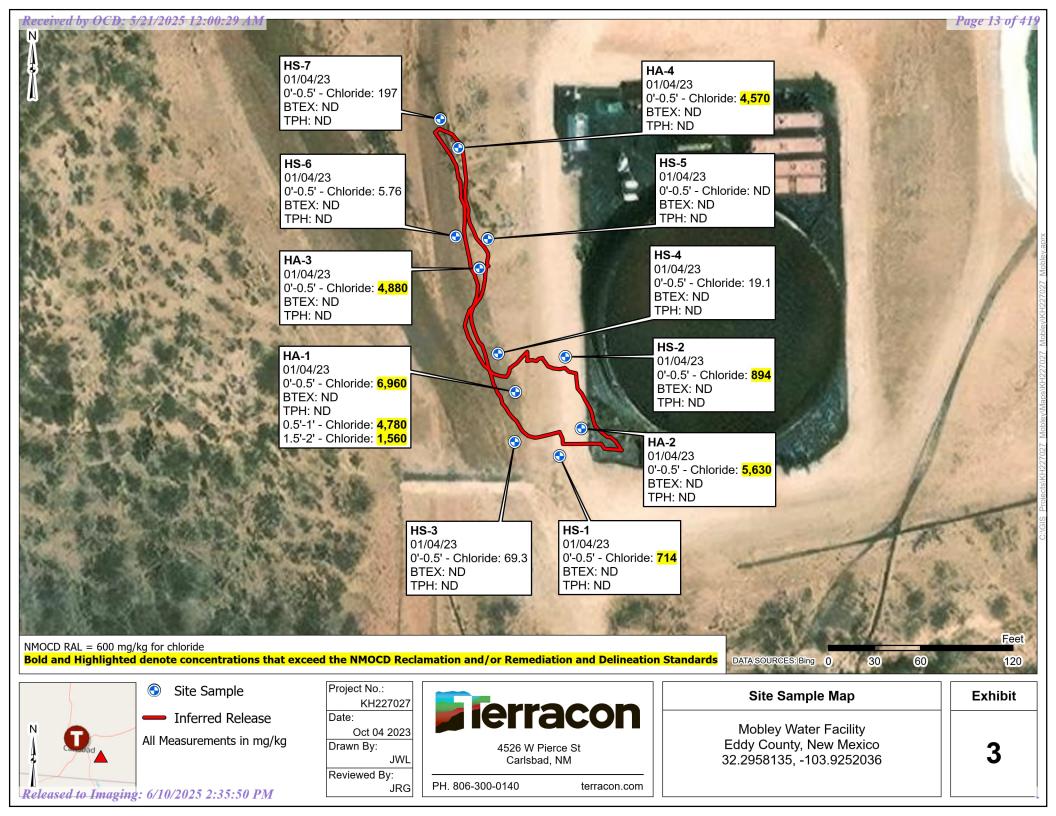
PH. 806-300-0140

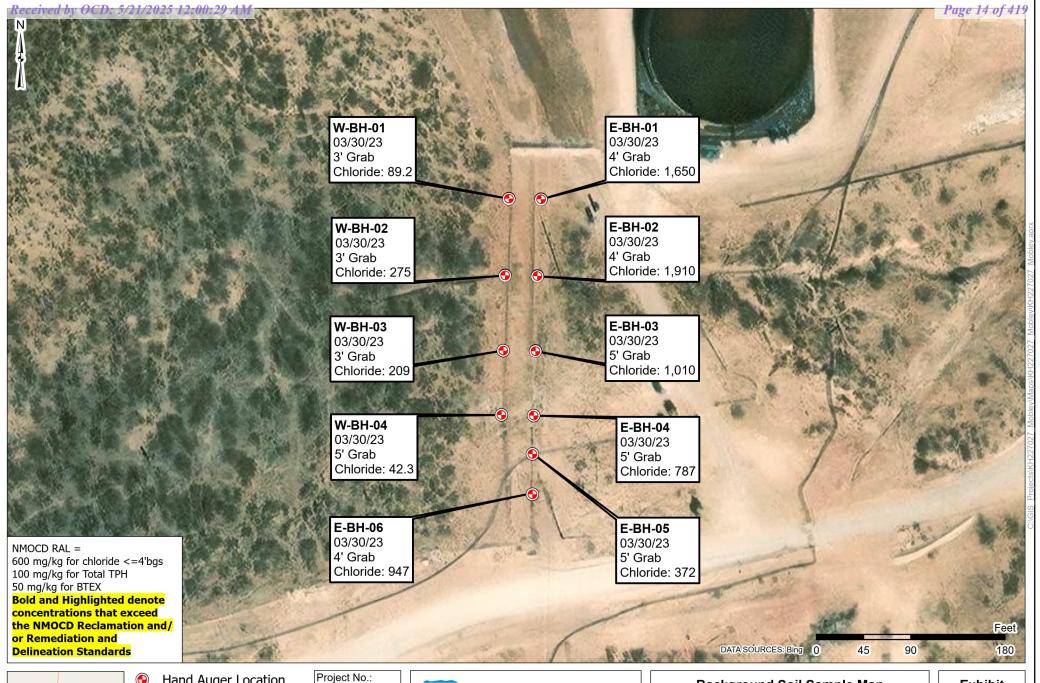
terracon.com

## **Site Location Map**

Mobley Water Facility Eddy County, New Mexico 32.2958135, -103.9252036

**Exhibit** 







Hand Auger Location All Measurements in mg/kg

KH227027 Date:

Oct 05 2023 Drawn By:

JWL Reviewed By:

JRG

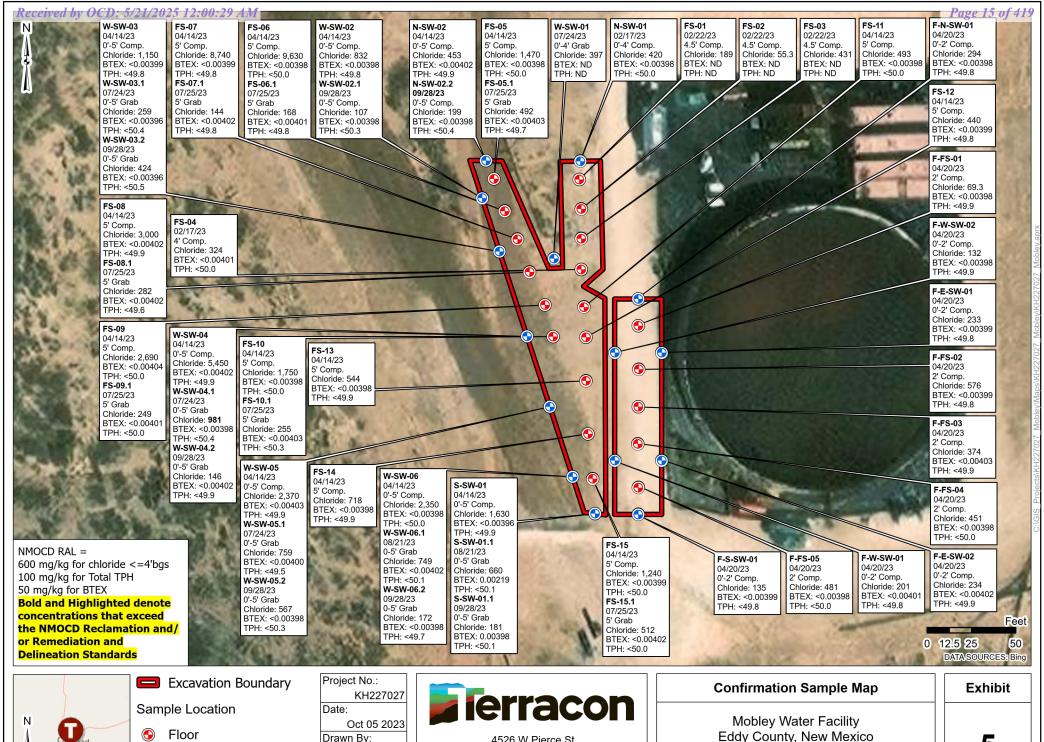


4526 W Pierce St Carlsbad, NM

PH. 806-300-0140 terracon.com

## **Background Soil Sample Map**

Mobley Water Facility Eddy County, New Mexico 32.2958135, -103.9252036 **Exhibit** 





Wall

Released to Imaging: 8 1 Me26 15 20 315 in mg/kg

JWL

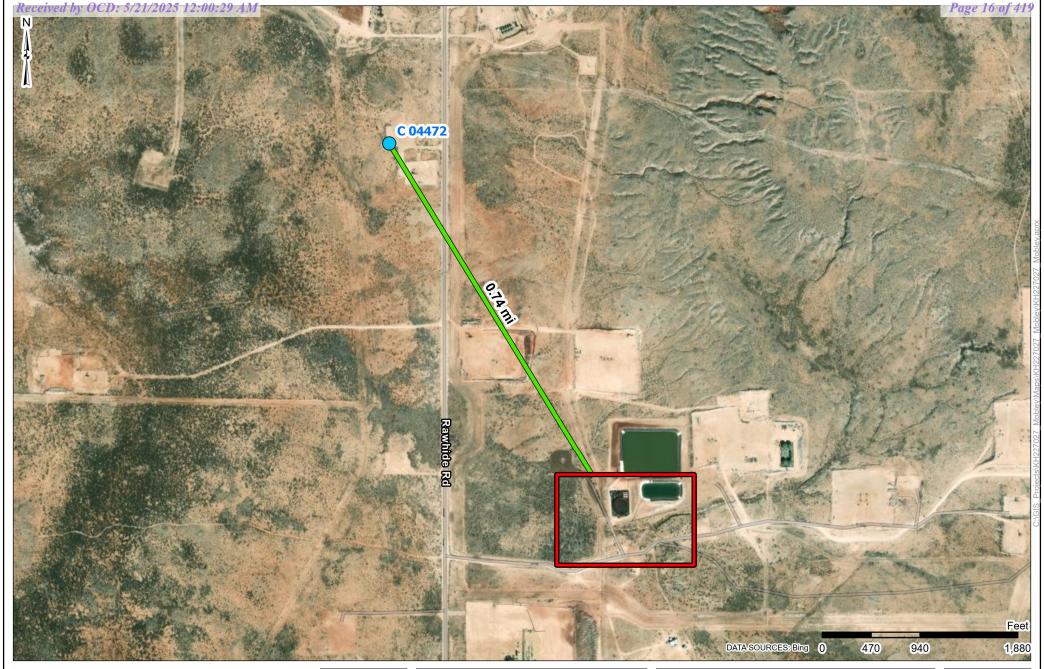
Reviewed By: **JRG**  4526 W Pierce St Carlsbad, NM

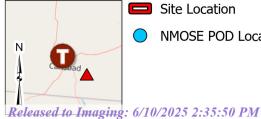
PH. 806-300-0140

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Eddy County, New Mexico 32.2958135, -103.9252036

5





Site Location

NMOSE POD Location

Project No.: KH227027 Date:

Oct 05 2023 Drawn By:

JWL

Reviewed By: **JRG** 



4526 W Pierce St Carlsbad, NM

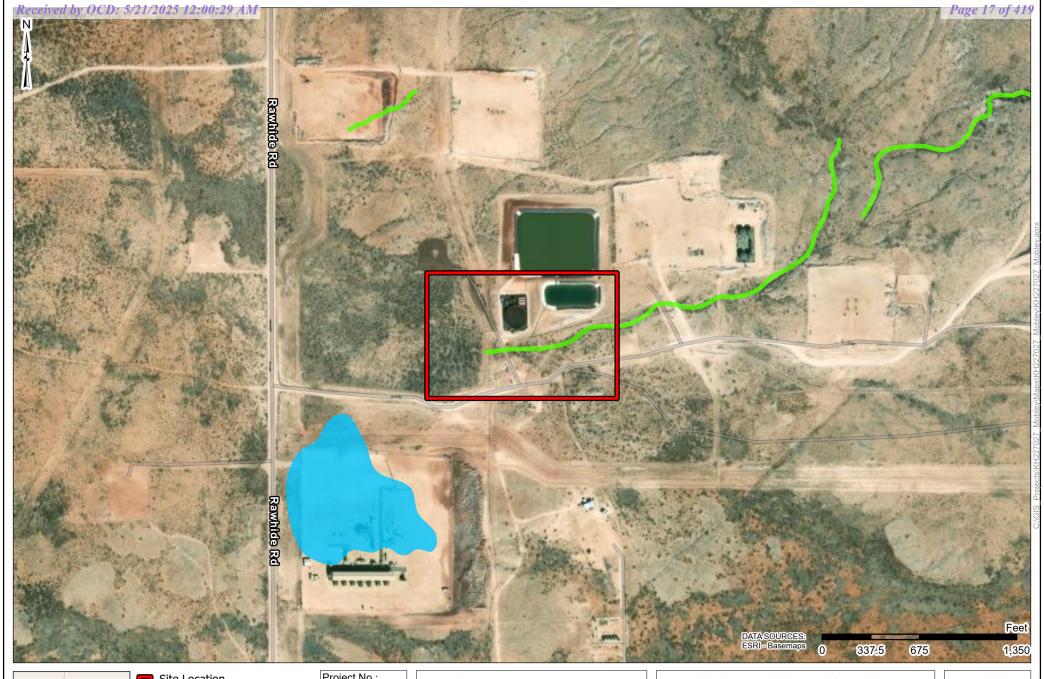
PH. 806-300-0140

terracon.com

## **NMOSE POD Location Map**

Mobley Water Facility Eddy County, New Mexico 32.2958135, -103.9252036 **Exhibit** 

6





Site Location

Freshwater Emergent Wetland Date:

Riverine

Drawn By:

Released to Imaging: 6/10/2025 2:35:50 PM

Project No.: KH227027

Oct 05 2023

JWL

Reviewed By: **JRG** 



4526 W Pierce St Carlsbad, NM

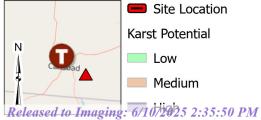
PH. 806-300-0140

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## **Designated Wetland Area Map**

Mobley Water Facility Eddy County, New Mexico 32.2958135, -103.9252036 **Exhibit** 





Project No.: KH227027

Date:

Oct 05 2023

Drawn By:

JWL Reviewed By: JRG



4526 W Pierce St Carlsbad, NM

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PH. 806-300-0140

## Cave Karst Public UCP Map

Mobley Water Facility Eddy County, New Mexico 32.2958135, -103.9252036

## **Exhibit**

8

# **APPENDIX B – TABLES AND WELL DATA**

## Soil Analytical Results Summary - Release Assessment Mobley Water Recycle Facility NMOCD Reference No. nAPP2234144689

SAMPLE ID	SAMPLE DATE	SAMPLE DEPTH (FT)	Sample Type	Sample Status	Chloride (mg/Kg)	Benzene (mg/Kg)	Total BTEX <sup>1</sup> (mg/Kg)	Total TPH <sup>2</sup> (mg/Kg)	Diesel Range Organics (Over C10-C28) (mg/Kg)	Gasoline Range Organics (C6-C10) (mg/Kg)	Oil Range Organics (Over C28-C36) (mg/Kg)
		(,			EPA Method 300	EPA Method 8021B	EPA Method 8021B	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M
					L	Release As	sessment				
		0-0.5	Discrete	Excavated	6960	< 0.00201	< 0.00402	<49.9	<49.9	<49.9	<49.9
HA-1	1/4/2023	0.5-1	Discrete	Excavated	4780	< 0.00201	< 0.00402	<49.8	<49.8	<49.8	<49.8
		1.5-2	Discrete	Excavated	1560	< 0.00199	< 0.00398	<49.9	<49.9	<49.9	<49.9
HA-2	1/4/2023	0-0.5	Discrete	Excavated	5630	< 0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8
HA-3	1/4/2023	0-0.5	Discrete	Excavated	4880	<0.00200	< 0.00399	<49.9	<49.9	<49.9	<49.9
HA-4	1/4/2023	0.5-1	Discrete	Excavated	4570	<0.00201	< 0.00402	<50.0	<50.0	<50.0	<50.0
HS-1	1/4/2023	0-0.5	Discrete	Excavated	714	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0
HS-2	1/4/2023	0-0.5	Discrete	Excavated	894	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9
HS-3	1/4/2023	0-0.5	Discrete	Excavated	69.3	< 0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0
HS-4	1/4/2023	0-0.5	Discrete	Excavated	19.1	<0.00200	< 0.00399	<49.8	<49.8	<49.8	<49.8
HS-5	1/4/2023	0-0.5	Discrete	Excavated	<4.97	<0.00200	< 0.00399	<50.0	<50.0	<50.0	<50.0
HS-6	1/4/2023	0-0.5	Discrete	Excavated	5.76	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0
HS-7	1/4/2023	0-0.5	Discrete	Excavated	197	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9
	NMOCD Reclamation Standards <sup>3</sup> (Surface to 4 ft bgs)				600	10	50	100		N/A	
NMOCD Remediation Standards <sup>4</sup> (Greater than Depths of 4 ft bgs)					600	10	50	100		N/A	

- 1. BTEX = Benzene, toluene, ethylbenzene, and total xylenes
- 2. TPH = Total petroleum hydrocarbons
- 3. New Mexico Administration Code (NMAC) Restoration, Reclamation and Re-vegatation (19.15.29.13), NMAC-D (Reclamation of Areas No Longer in Use) for Soils Extending to 4 ft. bgs
- 4. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (19.15.29.12) NMAC-N, 8/14/2018
- < = Constituent was not detected above the indicated laboratory sample detection limit (SDL).

NA = Not Analyzed

Bold denotes concentrations above applicable laboratory SDLs.

Bold and Highlighted denote concentrations that exceed the NMOCD Reclamation and/or Remediation and Delineation Standards.

In-situ = Sample is representative of material which remains in-place at the site.

#### Table 2 Soil Analytical Results Summary - Background Soil Assessment Mobley Water Recycle Facility

	NMOCD Reference No. nAPP2234144689																						
Sample ID	Sample Date		•	•	•	•	•	•	•	•	•	•	•	•	Sample Depth	Sample Type	Chloride (mg/Kg)	Benzene (mg/Kg)	Total BTEX <sup>1</sup> (mg/Kg)	Total TPH <sup>2</sup> (mg/Kg)	Diesel Range Organics (Over C10-C28) (mg/Kg)	Gasoline Range Organics (C6-C10) (mg/Kg)	Oil Range Organics (Over C28-C36) (mg/Kg)
		(ft bgs)	,,,,,	EPA Method 300	EPA Method 8021B	EPA Method 8021B	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M													
					Backgrou	nd Soil Assessr	nent																
E-BH-01	03/21/2023	4	Discrete	1650				NA															
E-BH-02	03/21/2023	4	Discrete	1910				NA															
E-BH-03	03/21/2023	5	Discrete	1010				NA															
E-BH-04	03/22/2023	5	Discrete	787				NA															
E-BH-05	03/22/2023	5	Discrete	372				NA															
E-BH-06	03/22/2023	4	Discrete	947				NA															
W-BH-01	03/21/2023	3	Discrete	89.2				NA															
W-BH-02	03/21/2023	3	Discrete	275				NA															
W-BH-03	03/21/2023	3	Discrete	209		NA																	
W-BH-04	03/21/2023	5	Discrete	42.3	NA																		
NMOC	D Reclamation	n Standard	s³	600	10																		
NMOC	D Remediatio	n Standard	s <sup>4</sup>	600	10	50	100		N/A														

- 1. BTEX = Benzene, toluene, ethylbenzene, and total xylenes
- 2. TPH = Total petroleum hydrocarbons
- 3. New Mexico Administration Code (NMAC) Restoration, Reclamation and Re-vegatation (19.15.29.13), NMAC-D (Reclamation of Areas No Longer in Use) for Soils Extending to 4
- 4. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (19.15.29.12) NMAC-N, 8/14/2018
- < = Constituent was not detected above the indicated laboratory sample detection limit (SDL).

NA = Not Analyzed

Bold denotes concentrations above applicable laboratory SDLs.

Bold and Highlighted denote concentrations that exceed the NMOCD Reclamation and/or Remediation and Delineation Standards.

In-situ = Sample is representative of material which remains in-place at the site.

## Soil Analytical Results Summary - Confirmation Evaluation (Floor Samples) Mobley Water Recycle Facility NMOCD Reference No. nAPP2234144689

Sample ID	Sample Date		Sample Type	Sample Status	Chloride (mg/Kg)	Benzene (mg/Kg)	Total BTEX <sup>1</sup> (mg/Kg)	Total TPH <sup>2</sup> (mg/Kg)	Diesel Range Organics (Over C10-C28) (mg/Kg)	Gasoline Range Organics (C6-C10) (mg/Kg)	Oil Range Organics (Over C28-C36) (mg/Kg)
		(ft bgs)	Турс		EPA Method 300	EPA Method 8021B	EPA Method 8021B	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M
	<u> </u>		l.	<u>l</u>	Release Delir	neation Asses	sment (Floor S	Samples)			
FS04	2/17/2023	4	Composite	In-situ	324	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0
FS-01	2/22/2023	4.5	Composite	In-situ	189				NA		
FS-02	2/22/2023	4.5	Composite	In-situ	55.3				NA		
FS-03	2/22/2023	4.5	Composite	In-situ	431				NA		
FS-04	2/22/2023	4.5	Composite	In-situ	178	NA					
FS-05	4/14/2023	5	Composite	Excavated	1,470	< 0.00199	< 0.00398	58.8	58.8	<50.0	<50.0
FS-06	4/14/2023	5	Composite	Excavated	9,630	< 0.00199	< 0.00398	<50.0	<50.0	<50.0	<50.0
FS-07	4/14/2023	5	Composite	Excavated	8,740	<0.0200	< 0.00399	<49.8	<49.8	<49.8	<49.8
FS-08	4/14/2023	5	Composite	Excavated	3,000	<0.00201	< 0.00402	<49.9	<49.9	<49.9	<49.9
FS-09	4/14/2023	5	Composite	Excavated	2,690	<0.00202	< 0.00404	<50.0	<50.0	<50.0	<50.0
FS-10	4/14/2023	5	Composite	Excavated	1,750	< 0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9
FS-11	4/14/2023	5	Composite	In-situ	493	< 0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0
FS-12	4/14/2023	5	Composite	In-situ	440	<0.00200	< 0.00399	<49.8	<49.8	<49.8	<49.8
FS-13	4/14/2023	5	Composite	In-situ	544	< 0.00199	< 0.00398	<49.9	<49.9	<49.9	<49.9
FS-14	4/14/2023	5	Composite	In-situ	718	< 0.00199	< 0.00398	<49.9	<49.9	<49.9	<49.9
FS-15	4/14/2023	5	Composite	Excavated	1,240	<0.00200	< 0.00399	<50.0	<50.0	<50.0	<50.0
F-FS01	4/20/2023	0-2	Composite	In-situ	69.3	< 0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9
F-FS02	4/20/2023	0-2	Composite	In-situ	576	<0.00200	< 0.00399	<49.8	<49.8	<49.8	<49.8
F-FS03	4/20/2023	0-2	Composite	In-situ	374	<0.00202	< 0.00403	<49.9	<49.9	<49.9	<49.9
F-FS04	4/20/2023	0-2	Composite	In-situ	451	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0
F-FS05	4/20/2023	0-2	Composite	In-situ	481	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0
FS-05.1	7/25/2023	5	Composite	In-situ	492	<0.00202	< 0.00403	<49.7	<49.7	<49.7	<49.7
FS-06.1	7/25/2023	5	Composite	In-situ	168	<0.00200	< 0.00401	<49.8	<49.8	<49.8	<49.8
FS-07.1	7/25/2023	5	Composite	In-situ	144	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8
FS-08.1	7/24/2023	5	Composite	In-situ	282	<0.00201	<0.00402	<49.6	<49.6	<49.6	<49.6
FS-09.1	7/24/2023	5	Composite	In-situ	249	<0.00200	< 0.00401	<50.0	<50.0	<50.0	<50.0
FS-10.1	7/24/2023	5	Composite	In-situ	255	<0.00202	<0.00403	<50.3	<50.3	<50.3	<50.3
FS-15.1	7/24/2023	5	Composite	In-situ	512	<0.00201	< 0.00402	<50.0	<50.0	<50.0	<50.0
ļ.			-						1		
	NMOCD Recla				600	10	50	100		N/A	
NMOCD Remediation Standards <sup>4</sup>					600	10	50	100		N/A	

- BTEX = Benzene, toluene, ethylbenzene, and total xylenes
- 2. TPH = Total petroleum hydrocarbons
- 3. New Mexico Administration Code (NMAC) Restoration, Reclamation and Re-vegatation (19.15.29.13), NMAC-D (Reclamation of Areas No Longer in Use) for Soils Extending to 4 ft. bgs
- 4. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (19.15.29.12) NMAC-N, 8/14/2018
- < = Constituent was not detected above the indicated laboratory sample detection limit (SDL).

NA = Not Analyzed

#### Bold denotes concentrations above applicable laboratory SDLs.

Bold and Highlighted denote concentrations that exceed the NMOCD Reclamation and/or Remediation and Delineation Standards.

In-situ = Sample is representative of material which remains in-place at the site.

#### Table 4 Soil Analytical Results Summary - Confirmation Evaluation (Wall Samples) Mobley Water Recycle Facility NMOCD Reference No. nAPP2234144689

Sample ID	Sample Date	Sample Depth (ft bgs)	Sample Type	Sample Status	Chloride (mg/Kg)  EPA Method	Benzene (mg/Kg)  EPA Method 8021B	Total BTEX¹ (mg/Kg)  EPA Method 8021B	Total TPH <sup>2</sup> (mg/Kg)  EPA Method 8015M	Diesel Range Organics (Over C10-C28) (mg/Kg) EPA Method 8015M	Gasoline Range Organics (C6-C10) (mg/Kg)	Oil Range Organics (Over C28-C36) (mg/Kg)
Release Delineation Assessment (Wall Samples)											
N-SW-01	2/17/2023	0-4	Composite	In-situ	420	< 0.00199	< 0.00398	<50.0	<50.0	<50.0	<50.0
E-SW-01	2/17/2023	0-4	Composite	In-situ	87	<0.00200	< 0.00399	<49.9	<49.9	<49.9	<49.9
W-SW-01	2/22/2023	0-4	Composite	In-situ	397				NA		
N-SW-2	4/14/2023	0 - 5	Composite	In-situ	453	< 0.00201	< 0.00402	209	124	<49.9	84.5
E-SW-2	4/14/2023	0 - 5	Composite	Excavated	30,500	<0.00200	< 0.00401	<50.0	<50.0	<50.0	<50.0
E-SW-4	4/14/2023	0 - 5	Composite	In-situ	74.9	< 0.00199	< 0.00398	<50.0	<50.0	<50.0	<50.0
W-SW-2	4/14/2023	0 - 5	Composite	In-situ	832	< 0.00199	< 0.00398	<49.8	<49.8	<49.8	<49.8
W-SW-3	4/14/2023	0 - 5	Composite	Excavated	1150	<0.00200	< 0.00399	<49.8	<49.8	<49.8	<49.8
W-SW-4	4/14/2023	0 - 5	Composite	Excavated	5450	< 0.00201	< 0.00402	<49.9	<49.9	<49.9	<49.9
W-SW-5	4/14/2023	0 - 5	Composite	Excavated	2370	<0.00202	< 0.00403	<49.9	<49.9	<49.9	<49.9
W-SW-6	4/14/2023	0 - 5	Composite	Excavated	2350	< 0.00199	< 0.00398	<50.0	<50.0	<50.0	<50.0
S-SW-1	4/14/2023	0 - 5	Composite	Excavated	1630	<0.00198	< 0.00396	<49.9	<49.9	<49.9	<49.9
F-E-SW1	4/20/2023	0-2	Composite	In-situ	233	<0.00200	< 0.00399	<49.8	<49.8	<49.8	<49.8
F-E-SW2	4/20/2023	0-2	Composite	In-situ	234	< 0.00201	< 0.00402	<49.9	<49.9	<49.9	<49.9
F-N-SW1	4/20/2023	0-2	Composite	In-situ	294	< 0.00199	< 0.00398	75.6	75.6	<49.8	<49.8
F-S-SW1	4/20/2023	0-2	Composite	In-situ	135	<0.00200	< 0.00399	<50.0	<50.0	<50.0	<50.0
F-W-SW1	4/20/2023	0-2	Composite	In-situ	201	<0.00200	< 0.00401	<49.8	<49.8	<49.8	<49.8
F-W-SW2	4/20/2023	0-2	Composite	In-situ	132	< 0.00199	< 0.00398	<49.9	<49.9	<49.9	<49.9
W-SW-03.1	7/24/2023	0 - 5	Composite	In-situ	259	<0.00198	< 0.00396	<50.4	<50.4	<50.4	<50.4
W-SW-04.1	7/24/2023	0 - 5	Composite	In-situ	981	< 0.00199	< 0.00398	<50.4	<50.4	<50.4	<50.4
W-SW-05.1	7/24/2023	0 - 5	Composite	In-situ	759	<0.00200	< 0.00400	<49.5	<49.5	<49.5	<49.5
S-SW-01.1	8/21/2023	0 - 5	Composite	In-situ	749	< 0.00201	< 0.00402	<50.1	<50.1	<50.1	<50.1
W-SW-06.1	8/21/2023	0 - 5	Composite	In-situ	660	<0.00202	0.0219	<50.1	<50.1	<50.1	<50.1
N-SW-02.2	9/28/2023	0-5'	Composite	In-situ	199	<0.00200	< 0.00399	<50.4	<50.4	<50.4	<50.4
S-SW-01.2	9/28/2023	0-5'	Composite	In-situ	181	< 0.00199	<0.00398	<50.1	<50.1	<50.1	<50.1
W-SW-02.1	9/28/2023	0-5'	Composite	In-situ	107	< 0.00199	<0.00398	<50.3	<50.3	<50.3	<50.3
W-SW-03.2	9/28/2023	0-5'	Composite	In-situ	424	<0.00198	< 0.00396	<50.5	<50.5	<50.5	<50.5
W-SW-04.2	9/28/2023	0-5'	Composite	In-situ	146	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9
W-SW-05.2	9/28/2023	0-5'	Composite	In-situ	567	< 0.00199	<0.00398	<50.3	<50.3	<50.3	<50.3
W-SW-06.2	9/28/2023	0-5'	Composite	In-situ	172	< 0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7
						•			•	•	
	NMOCD Reclai	mation Star	ndards³		600	10	50	100		N/A	
	NMOCD Reme	diation Sta	ndards <sup>4</sup>		600	10	50	100		N/A	

- 1. BTEX = Benzene, toluene, ethylbenzene, and total xylenes
- 2. TPH = Total petroleum hydrocarbons
- 3. New Mexico Administration Code (NMAC) Restoration, Reclamation and Re-vegatation (19.15.29.13), NMAC-D (Reclamation of Areas No Longer in Use) for Soils Extending to 4 ft. bgs
- 4. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (19.15.29.12) NMAC-N, 8/14/2018
- < = Constituent was not detected above the indicated laboratory sample detection limit (SDL).

NA = Not Analyzed

Bold denotes concentrations above applicable laboratory SDLs.

Bold and Highlighted denote concentrations that exceed the NMOCD Reclamation and/or Remediation and Delineation Standards.

In-situ = Sample is representative of material which remains in-place at the site.



# New Mexico Office of the State Engineer

# **Point of Diversion Summary**

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number Q64 Q16 Q4 Sec Tws Rng

X

NA C 04472 POD1 2 2 4 13 23S 29

600639 3574619

Driller License: 1249 Driller Company: ATKINS ENGINEERING ASSOC. INC.

**Driller Name:** ATKINS, JACKIE D.UELENER

 Drill Start Date:
 09/11/2020
 Drill Finish Date:
 09/11/2020
 Plug Date:
 09/15/2020

 Log File Date:
 10/06/2020
 PCW Rcv Date:
 Source:
 Shallow

Pump Type: Pipe Discharge Size: Estimated Yield:

Casing Size: Depth Well: Depth Water: 37 feet

Water Bearing Stratifications:TopBottomDescription1940Limestone/Dolomite/Chalk4055Shale/Mudstone/Siltstone

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

12/29/22 9:49 AM

POINT OF DIVERSION SUMMARY

# **APPENDIX C – PHOTOGRAPHIC LOG**





PHOTO 1: View of northern extent of the excavation.



PHOTO 2: View of northern extent of the excavation.





PHOTO 3: View of central excavation area.



PHOTO 4: View of southern extent of the excavation.





PHOTO 5: View of the excavation area facing north.



PHOTO 6: View of water sample location.





PHOTO 7: View of water sample location.



PHOTO 8: View of water sample location.





PHOTO 9: View of water sample location.



PHOTO 10: View of water sample location.

Responsive Resourceful Reliable





PHOTO 11: View of east borehole (E BH) 01



PHOTO 12: View of east borehole (E BH) 02





PHOTO 13: View of east borehole (E BH) 03



PHOTO 14: View of east borehole (E BH) 04





PHOTO 15: View of east borehole (E BH) 05



PHOTO 16: View of east borehole (E BH) 06





PHOTO 17: View of west borehole (W BH) 01



PHOTO 18: View of west borehole (W BH) 02





PHOTO 19: View of west borehole (W BH) 03



PHOTO 20: View of west borehole (W BH) 04

# APPENDIX D - ANALYTICAL REPORT AND CHAIN OF CUSTODY

**Environment Testing** 

# **ANALYTICAL REPORT**

## PREPARED FOR

Generated 3/1/2023 1:38:09 PM

Attn: Travis Casey Terracon Consulting Eng & Scientists 5847 50th St Lubbock, Texas 79424

## **JOB DESCRIPTION**

Mobley Water Facility SDG NUMBER KH227027

## **JOB NUMBER**

890-4175-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



# **Eurofins Carlsbad**

## **Job Notes**

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

## **Authorization**

Generated 3/1/2023 1:38:09 PM

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Page 2 of 16 3/1/2023

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## **Eurofins Carlsbad**

## **Compliance Statement**

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

#### Coliform MCLs

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

#### Warranties, Terms, and Conditions

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

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

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

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

H = field staff performs tests under NJ NELAP certification #PA093, PA NELAP certification # 46-05499

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

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Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water Facility

Laboratory Job ID: 890-4175-1 SDG: KH227027

# **Table of Contents**

Cover Page	1
Table of Contents	4
Definitions/Glossary	5
Case Narrative	6
Client Sample Results	7
QC Sample Results	8
QC Association Summary	9
Lab Chronicle	10
Certification Summary	11
Method Summary	12
Sample Summary	13
Chain of Custody	14
Receint Checklists	15

1

3

4

6

8

9

11

12

### **Definitions/Glossary**

Client: Terracon Consulting Eng & Scientists Job ID: 890-4175-1 Project/Site: Mobley Water Facility SDG: KH227027

#### **Qualifiers**

**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.
n	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE) MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry) MDL Method Detection Limit Minimum Level (Dioxin) ML 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: Mobley Water Facility

Job ID: 890-4175-1 SDG: KH227027

Job ID: 890-4175-1

**Laboratory: Eurofins Carlsbad** 

Narrative

Job Narrative 890-4175-1

#### Receipt

The samples were received on 2/22/2023 3:12 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 0.8°C

#### **Receipt Exceptions**

The following samples were received and analyzed from an unpreserved bulk soil jar: FS-04 4.5 (890-4175-1), FS-02 4.5 (890-4175-2), FS-01 4.5 (890-4175-3), FS-03 4.5 (890-4175-4) and W-SW-01 (890-4175-5).

#### HPLC/IC

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-47347 and analytical batch 880-47423 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.

Job ID: 890-4175-1 SDG: KH227027

Client Sample ID: FS-04 4.5

Lab Sample ID: 890-4175-1

**Matrix: Solid** 

Date Collected: 02/22/23 11:30 Date Received: 02/22/23 15:12

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	178	F1	5.02		mg/Kg			02/28/23 14:09	1

Lab Sample ID: 890-4175-2

Matrix: Solid

Date Collected: 02/22/23 11:35 Date Received: 02/22/23 15:12

Client Sample ID: FS-02 4.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac		
	Chloride	55.3	4.98	mg/Kg			02/28/23 14:27	1		

Lab Sample ID: 890-4175-3

Client Sample ID: FS-01 4.5 Date Collected: 02/22/23 11:40 Matrix: Solid

Date Received: 02/22/23 15:12

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	189		5.00		mg/Kg			02/28/23 14:33	1

Client Sample ID: FS-03 4.5 Lab Sample ID: 890-4175-4 Date Collected: 02/22/23 11:50

**Matrix: Solid** 

Date Received: 02/22/23 15:12

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier MDL Unit Dil Fac Analyte RL D Prepared Analyzed Chloride 431 4.95 02/28/23 14:40 mg/Kg

Client Sample ID: W-SW-01 Lab Sample ID: 890-4175-5

Date Received: 02/22/23 15:12

Date Collected: 02/22/23 11:45 Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier Analyte RL MDL Unit D Prepared Analyzed Dil Fac Chloride 397 5.01 mg/Kg 02/28/23 14:46

### QC Sample Results

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water Facility

Job ID: 890-4175-1

SDG: KH227027

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-47347/1-A

**Matrix: Solid** 

Analysis Batch: 47423

Client Sample ID: Method Blank **Prep Type: Soluble** 

MB MB

MDL Unit Dil Fac Analyte Result Qualifier RL D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 02/28/23 13:50

Lab Sample ID: LCS 880-47347/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 47423** 

Spike LCS LCS %Rec Added Qualifier %Rec Analyte Result Unit D Limits Chloride 250 225.2 mg/Kg 90 90 - 110

Lab Sample ID: LCSD 880-47347/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 47423

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit Chloride 250 229.1 20 mg/Kg 90 - 110

Lab Sample ID: 890-4175-1 MS

**Matrix: Solid** 

Analysis Batch: 47423

Spike MS MS Sample Sample %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 402.9 Chloride 178 F1 251 90 - 110 mg/Kg

Lab Sample ID: 890-4175-1 MSD

**Matrix: Solid** 

Analysis Batch: 47423

Sample Sample Spike MSD MSD %Rec RPD Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits RPD Limit Chloride 178 F1 251 399.3 F1 88 mg/Kg 90 - 110 20

**Eurofins Carlsbad** 

Client Sample ID: FS-04 4.5

Client Sample ID: FS-04 4.5

**Prep Type: Soluble** 

**Prep Type: Soluble** 

## **QC Association Summary**

Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water Facility

Job ID: 890-4175-1 SDG: KH227027

#### **HPLC/IC**

#### Leach Batch: 47347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4175-1	FS-04 4.5	Soluble	Solid	DI Leach	
890-4175-2	FS-02 4.5	Soluble	Solid	DI Leach	
890-4175-3	FS-01 4.5	Soluble	Solid	DI Leach	
890-4175-4	FS-03 4.5	Soluble	Solid	DI Leach	
890-4175-5	W-SW-01	Soluble	Solid	DI Leach	
MB 880-47347/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-47347/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-47347/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4175-1 MS	FS-04 4.5	Soluble	Solid	DI Leach	
890-4175-1 MSD	FS-04 4.5	Soluble	Solid	DI Leach	

#### Analysis Batch: 47423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4175-1	FS-04 4.5	Soluble	Solid	300.0	47347
890-4175-2	FS-02 4.5	Soluble	Solid	300.0	47347
890-4175-3	FS-01 4.5	Soluble	Solid	300.0	47347
890-4175-4	FS-03 4.5	Soluble	Solid	300.0	47347
890-4175-5	W-SW-01	Soluble	Solid	300.0	47347
MB 880-47347/1-A	Method Blank	Soluble	Solid	300.0	47347
LCS 880-47347/2-A	Lab Control Sample	Soluble	Solid	300.0	47347
LCSD 880-47347/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	47347
890-4175-1 MS	FS-04 4.5	Soluble	Solid	300.0	47347
890-4175-1 MSD	FS-04 4.5	Soluble	Solid	300.0	47347

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water Facility

Job ID: 890-4175-1

SDG: KH227027

Client Sample ID: FS-04 4.5

Date Collected: 02/22/23 11:30 Date Received: 02/22/23 15:12 Lab Sample ID: 890-4175-1

Matrix: Solid

**Matrix: Solid** 

**Matrix: Solid** 

**Matrix: Solid** 

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	47347	02/27/23 15:44	KS	EET MID
Soluble	Analysis	300.0		1			47423	02/28/23 14:09	CH	EET MID

Client Sample ID: FS-02 4.5 Lab Sample ID: 890-4175-2 **Matrix: Solid** 

Date Collected: 02/22/23 11:35

Date Received: 02/22/23 15:12

		Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep	Туре	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Solu	ible	Leach	DI Leach			5.02 g	50 mL	47347	02/27/23 15:44	KS	EET MID
Solu	ıble	Analysis	300.0		1			47423	02/28/23 14:27	СН	EET MID

Lab Sample ID: 890-4175-3 Client Sample ID: FS-01 4.5

Date Collected: 02/22/23 11:40

Date Received: 02/22/23 15:12

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	47347	02/27/23 15:44	KS	EET MID
Soluble	Analysis	300.0		1			47423	02/28/23 14:33	CH	EET MID

Client Sample ID: FS-03 4.5 Lab Sample ID: 890-4175-4

Date Collected: 02/22/23 11:50

Date Received: 02/22/23 15:12

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	47347	02/27/23 15:44	KS	EET MID
Soluble	Analysis	300.0		1			47423	02/28/23 14:40	CH	EET MID

Client Sample ID: W-SW-01 Lab Sample ID: 890-4175-5

Date Collected: 02/22/23 11:45

Date Received: 02/22/23 15:12

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	47347	02/27/23 15:44	KS	EET MID
Soluble	Analysis	300.0		1			47423	02/28/23 14:46	CH	EET MID

**Laboratory References:** 

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

## **Accreditation/Certification Summary**

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water Facility

Job ID: 890-4175-1 SDG: KH227027

**Laboratory: Eurofins Midland** 

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

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## **Method Summary**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water Facility

Job ID: 890-4175-1

SDG: KH227027

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

#### Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

#### Laboratory References:

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

## **Sample Summary**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water Facility

Job ID: 890-4175-1 SDG: KH227027

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-4175-1	FS-04 4.5	Solid	02/22/23 11:30	02/22/23 15:12
890-4175-2	FS-02 4.5	Solid	02/22/23 11:35	02/22/23 15:12
890-4175-3	FS-01 4.5	Solid	02/22/23 11:40	02/22/23 15:12
890-4175-4	FS-03 4.5	Solid	02/22/23 11:50	02/22/23 15:12
890-4175-5	W-SW-01	Solid	02/22/23 11:45	02/22/23 15:12

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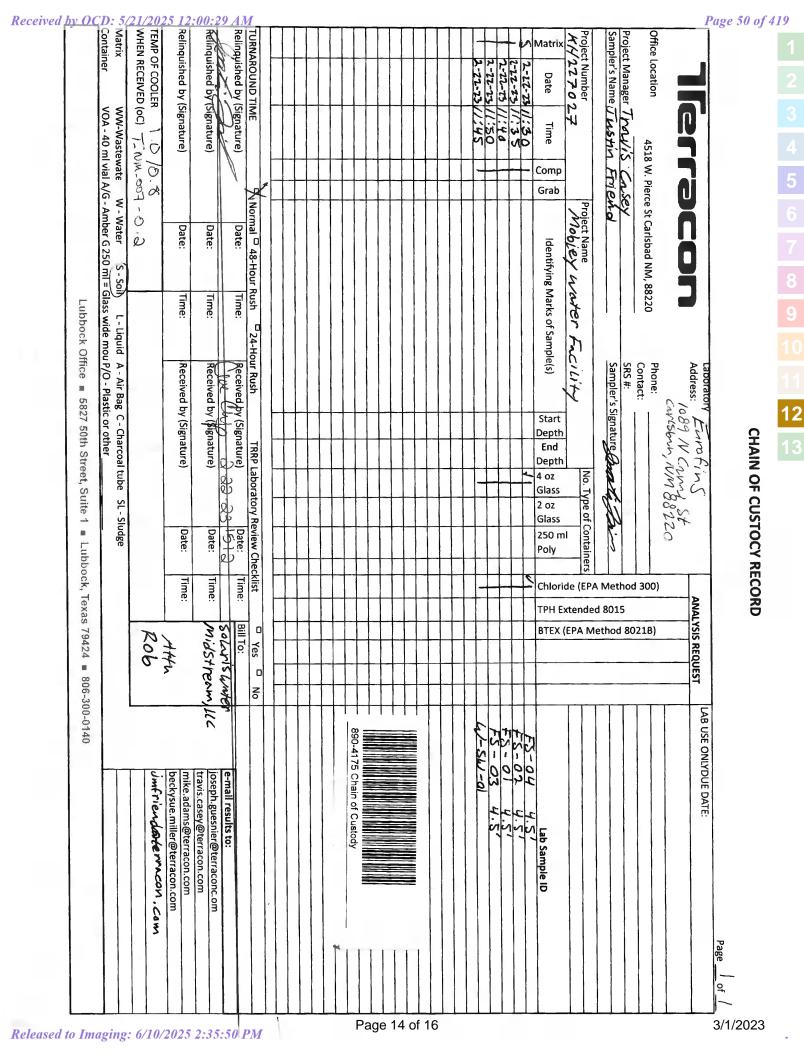
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### **Login Sample Receipt Checklist**

Client: Terracon Consulting Eng & Scientists Job Number: 890-4175-1 SDG Number: KH227027

Login Number: 4175 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

### **Login Sample Receipt Checklist**

Client: Terracon Consulting Eng & Scientists

Job Number: 890-4175-1

SDG Number: KH227027

Login Number: 4175 **List Source: Eurofins Midland** List Number: 2

List Creation: 02/24/23 10:52 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	
ls 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	True	

N/A

MS/MSDs

<6mm (1/4").

Containers requiring zero headspace have no headspace or bubble is

**Environment Testing** 

# **ANALYTICAL REPORT**

## PREPARED FOR

Attn: Travis Casey
Terracon Consulting Eng & Scientists
5847 50th St
Lubbock, Texas 79424

Generated 3/28/2023 8:06:31 AM Revision 1

## **JOB DESCRIPTION**

Mobley Water Facility SDG NUMBER KH227027

## **JOB NUMBER**

890-4287-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



# **Eurofins Carlsbad**

## **Job Notes**

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

## **Authorization**

Generated 3/28/2023 8:06:31 AM Revision 1

Authorized for release by Jessica Kramer, Project Manager Jessica.Kramer@et.eurofinsus.com (432)704-5440

Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water Facility

Laboratory Job ID: 890-4287-1 SDG: KH227027

# **Table of Contents**

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	14
QC Sample Results	15
QC Association Summary	19
Lab Chronicle	22
Certification Summary	25
Method Summary	26
Sample Summary	27
Chain of Custody	28
Receipt Chacklists	31

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## **Definitions/Glossary**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water Facility

Job ID: 890-4287-1

SDG: KH227027

#### **Qualifiers**

**GC/MS VOA** 

Qualifier **Qualifier Description** 

Analyte was not detected at or above the SDL.

**GC Semi VOA** 

Qualifier **Qualifier Description** 

Analyte was not detected at or above the SDL.

**HPLC/IC** 

Qualifier **Qualifier Description** 

U Analyte was not detected at or above the SDL.

**Glossary** 

Abbreviation These commonly used abbreviations may or may not be present in this report.

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

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor** 

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

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

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit ML Minimum Level (Dioxin) MPN Most Probable Number Method Quantitation Limit MQL

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)

Reporting Limit or Requested Limit (Radiochemistry) RL

Relative Percent Difference, a measure of the relative difference between two points **RPD** 

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

**TNTC** Too Numerous To Count

#### Case Narrative

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water Facility

Job ID: 890-4287-1 SDG: KH227027

Job ID: 890-4287-1

**Laboratory: Eurofins Carlsbad** 

**Narrative** 

Job Narrative 890-4287-1

#### REVISION

The report being provided is a revision of the original report sent on 3/22/2023. The report (revision 1) is being revised due to Per client email, added chloride to job.

Report revision history

#### Receipt

The samples were received on 3/10/2023 3:40 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 0.8°C

#### **GC/MS VOA**

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

#### GC Semi VOA

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 following samples were diluted to bring the concentration of target analytes within the calibration range: WS-1 (890-4287-1), WS-2 (890-4287-2), WS-3 (890-4287-3), WS-4 (890-4287-4), WS-5 (890-4287-5), WS-6 (890-4287-6), WS-7 (890-4287-7) and WS-8 (890-4287-8). Elevated reporting limits (RLs) are provided.

Method 300 ORGFM 28D: The following samples were diluted to bring the concentration of target analytes within the calibration range: WS-9 (890-4287-9) and WS-10 (890-4287-10). 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.

## **Client Sample Results**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water Facility

Lab Sample ID: 890-4287-1

Date Collected: 03/10/23 13:16 Date Received: 03/10/23 15:40

**Client Sample ID: WS-1** 

o-Terphenyl

Released to Imaging: 6/10/2025 2:35:50 PM

**Matrix: Water** 

Job ID: 890-4287-1

SDG: KH227027

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100	0.000533	mg/L			03/15/23 16:23	1
Toluene	< 0.00100	U	0.00100	0.000475	mg/L			03/15/23 16:23	1
Ethylbenzene	<0.00100	U	0.00100	0.000411	mg/L			03/15/23 16:23	1
m,p-Xylenes	<0.0100	U	0.0100	0.00124	mg/L			03/15/23 16:23	1
o-Xylene	< 0.00100	U	0.00100	0.000551	mg/L			03/15/23 16:23	1
Xylenes, Total	<0.0100	U	0.0100	0.00124	mg/L			03/15/23 16:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			63 - 144					03/15/23 16:23	1
4-Bromofluorobenzene (Surr)	93		74 - 124					03/15/23 16:23	1
Dibromofluoromethane (Surr)	102		75 - 131					03/15/23 16:23	1
Toluene-d8 (Surr)	96		80 - 117					03/15/23 16:23	1

Method: TAL SOP Total BTEX	- Total BTE	X Calculat	ion						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0100	U	0.0100	0.00124	mg/L			03/16/23 17:52	1

	Method: SW846 8015 NM - Dies	sei Range (	Organics (D	RO) (GC)						
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
l	Total TPH	<4.64	U	4.64	0.918	mg/L			03/20/23 16:53	1

Method: SW846 8015B NM - D	Diesel Range	<b>Organics</b>	(DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<4.64	U	4.64	0.918	mg/L		03/15/23 13:05	03/16/23 14:13	1
Diesel Range Organics (Over C10-C28)	<4.64	U	4.64	0.918	mg/L		03/15/23 13:05	03/16/23 14:13	1
Oll Range Organics (Over C28-C36)	<4.64	U	4.64	0.886	mg/L		03/15/23 13:05	03/16/23 14:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 135				03/15/23 13:05	03/16/23 14:13	1

Method: EPA 300.0 - Anions, Id	on Chromat	ography -	DL						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2710		5.00	2.00	mg/L			03/25/23 03:30	10

70 - 135

102

Lab Sample ID: 890-4287-2 **Client Sample ID: WS-2** Date Collected: 03/10/23 13:22 **Matrix: Water** Date Received: 03/10/23 15:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100	0.000533	mg/L			03/15/23 16:46	1
Toluene	<0.00100	U	0.00100	0.000475	mg/L			03/15/23 16:46	1
Ethylbenzene	<0.00100	U	0.00100	0.000411	mg/L			03/15/23 16:46	1
m,p-Xylenes	<0.0100	U	0.0100	0.00124	mg/L			03/15/23 16:46	1
o-Xylene	<0.00100	U	0.00100	0.000551	mg/L			03/15/23 16:46	1
Xylenes, Total	<0.0100	U	0.0100	0.00124	mg/L			03/15/23 16:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		63 - 144					03/15/23 16:46	1

**Eurofins Carlsbad** 

03/15/23 13:05 03/16/23 14:13

Date Received: 03/10/23 15:40

o-Terphenyl

Analyte

Total BTEX

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water Facility

SDG: KH227027

03/15/23 13:05 03/16/23 14:33

Prepared

Client Sample ID: WS-2 Lab Sample ID: 890-4287-2 Date Collected: 03/10/23 13:22

**Matrix: Water** 

Job ID: 890-4287-1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

115

Result Qualifier

<0.0100 U

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		74 - 124	03/15/23 16:46	1
Dibromofluoromethane (Surr)	103		75 - 131	03/15/23 16:46	1
Toluene-d8 (Surr)	97		80 - 117	03/15/23 16:46	1

Method: TAL SOP Total BTEX	Total BTE	X Calculation	on						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0100	U	0.0100	0.00124	mg/L			03/16/23 17:52	1
Method: SW846 8015 NM - Dies	sel Range	Organics (E	RO) (GC)						

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<4.55	U	4.55	0.898	mg/L			03/20/23 16:53	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<4.55	U	4.55	0.898	mg/L		03/15/23 13:05	03/16/23 14:33	1
Diesel Range Organics (Over C10-C28)	<4.55	U	4.55	0.898	mg/L		03/15/23 13:05	03/16/23 14:33	1
Oll Range Organics (Over C28-C36)	<4.55	U	4.55	0.867	mg/L		03/15/23 13:05	03/16/23 14:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 135				03/15/23 13:05	03/16/23 14:33	1

	Method: EPA 300.0 - Anions,	Ion Chromato	graphy - l	DL						
	Analyte	Result Q	ualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
l	Chloride	2900		5.00	2.00	mg/L			03/25/23 03:54	10

70 - 135

**Client Sample ID: WS-3** Lab Sample ID: 890-4287-3 Date Collected: 03/10/23 13:27 **Matrix: Water** Date Received: 03/10/23 15:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100	0.000533	mg/L			03/15/23 17:10	1
Toluene	<0.00100	U	0.00100	0.000475	mg/L			03/15/23 17:10	1
Ethylbenzene	<0.00100	U	0.00100	0.000411	mg/L			03/15/23 17:10	1
m,p-Xylenes	<0.0100	U	0.0100	0.00124	mg/L			03/15/23 17:10	1
o-Xylene	<0.00100	U	0.00100	0.000551	mg/L			03/15/23 17:10	1
Xylenes, Total	<0.0100	U	0.0100	0.00124	mg/L			03/15/23 17:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		63 - 144					03/15/23 17:10	1
4-Bromofluorobenzene (Surr)	93		74 - 124					03/15/23 17:10	1
Dibromofluoromethane (Surr)	104		75 - 131					03/15/23 17:10	1
Toluene-d8 (Surr)	98		80 - 117					03/15/23 17:10	1

**Eurofins Carlsbad** 

Analyzed

03/16/23 17:52

RL

0.0100

MDL Unit

0.00124 mg/L

Dil Fac

## **Client Sample Results**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water Facility

**Client Sample ID: WS-3** 

Lab Sample ID: 890-4287-3

**Matrix: Water** 

Job ID: 890-4287-1

SDG: KH227027

Date Collected: 03/10/23 13:27 Date Received: 03/10/23 15:40

Method: SW846 8015 NM - Die:	sel Range (	Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<4.59	U	4.59	0.906	mg/L			03/20/23 16:53	1

Total TPH	<4.59	U	4.59	0.906	mg/L			03/20/23 16:53	1
 Method: SW846 8015B NM - [	Diesel Range	Organics	(DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<4.59	U	4.59	0.906	mg/L		03/15/23 13:05	03/16/23 14:52	1
Diesel Range Organics (Over C10-C28)	<4.59	U	4.59	0.906	mg/L		03/15/23 13:05	03/16/23 14:52	1
Oll Range Organics (Over C28-C36)	<4.59	U	4.59	0.875	mg/L		03/15/23 13:05	03/16/23 14:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 135				03/15/23 13:05	03/16/23 14:52	1
o-Terphenyl	111		70 - 135				03/15/23 13:05	03/16/23 14:52	1

Method: EPA 300.0 - Anions, lo									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1160		5.00	2.00	mg/L			03/25/23 04:19	10

Lab Sample ID: 890-4287-4 Client Sample ID: WS-4

Date Collected: 03/10/23 13:32 **Matrix: Water** 

Date Received: 03/10/23 15:40

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100	0.000533	mg/L			03/15/23 17:33	1
Toluene	<0.00100	U	0.00100	0.000475	mg/L			03/15/23 17:33	1
Ethylbenzene	<0.00100	U	0.00100	0.000411	mg/L			03/15/23 17:33	1
m,p-Xylenes	<0.0100	U	0.0100	0.00124	mg/L			03/15/23 17:33	1
o-Xylene	<0.00100	U	0.00100	0.000551	mg/L			03/15/23 17:33	1
Xylenes, Total	<0.0100	U	0.0100	0.00124	mg/L			03/15/23 17:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate		%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroetha	ne-d4 (Surr)	108		63 - 144	03/	/15/23 17:33	1
4-Bromofluorobe	nzene (Surr)	92		74 - 124	03/	/15/23 17:33	1
Dibromofluorome	ethane (Surr)	109		75 - 131	03/	/15/23 17:33	1
Toluene-d8 (Surr	)	96		80 - 117	03/	/15/23 17:33	1

Method: TAL SOP Total BTEX	on								
Analyte	Result	Qualifier	RL	MDL (	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0100	U	0.0100	0.00124	mg/L			03/16/23 17:52	1

Method: SW846 8015 NM - Die	sel Range (	Organics (	DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<4.69	U	4.69	0.926	mg/L			03/20/23 16:53	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<4.69	U	4.69	0.926	mg/L		03/15/23 13:05	03/16/23 15:12	1
Diesel Range Organics (Over C10-C28)	<4.69	U	4.69	0.926	mg/L		03/15/23 13:05	03/16/23 15:12	1
Oll Range Organics (Over C28-C36)	<4 69	U	4 69	0.894	ma/l		03/15/23 13:05	03/16/23 15:12	1

## **Client Sample Results**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water Facility

SDG: KH227027

03/15/23 17:56

**Client Sample ID: WS-4** Lab Sample ID: 890-4287-4

**Matrix: Water** 

Job ID: 890-4287-1

Date Collected: 03/10/23 13:32 Date Received: 03/10/23 15:40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 135	03/15/23 13:05 0	3/16/23 15:12	1
o-Terphenyl	99		70 - 135	03/15/23 13:05 0	3/16/23 15:12	1

Method: EPA 300.0 - Anion	s, Ion Chromatograph	y - DL						
Analyte	Result Qualifier	r RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1030	5.00	2.00	mg/L			03/25/23 04:44	10

Lab Sample ID: 890-4287-5 **Client Sample ID: WS-5** Date Collected: 03/10/23 13:36 **Matrix: Water** 

Date Received: 03/10/23 15:40

Toluene-d8 (Surr)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100	0.000533	mg/L			03/15/23 17:56	1
Toluene	<0.00100	U	0.00100	0.000475	mg/L			03/15/23 17:56	1
Ethylbenzene	<0.00100	U	0.00100	0.000411	mg/L			03/15/23 17:56	1
m,p-Xylenes	<0.0100	U	0.0100	0.00124	mg/L			03/15/23 17:56	1
o-Xylene	<0.00100	U	0.00100	0.000551	mg/L			03/15/23 17:56	1
Xylenes, Total	<0.0100	U	0.0100	0.00124	mg/L			03/15/23 17:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		63 - 144					03/15/23 17:56	1
4-Bromofluorobenzene (Surr)	90		74 - 124					03/15/23 17:56	1
Dibromofluoromethane (Surr)	110		75 - 131					03/15/23 17:56	1

Method: TAL SOP Total BTEX	- Total BTE	X Calculat	ion						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0100	U	0.0100	0.00124	mg/L			03/16/23 17:52	1

80 - 117

96

Method: SW846 8015 NM - Die	sel Range Organics (DF	RO) (GC)					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<4 24	4 24	0.837 mg/l			03/20/23 16:53	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<4.24	U	4.24	0.837	mg/L		03/15/23 13:05	03/16/23 15:31	•
Diesel Range Organics (Over C10-C28)	<4.24	U	4.24	0.837	mg/L		03/15/23 13:05	03/16/23 15:31	•
Oll Range Organics (Over C28-C36)	<4.24	U	4.24	0.808	mg/L		03/15/23 13:05	03/16/23 15:31	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	94		70 - 135				03/15/23 13:05	03/16/23 15:31	-
o-Terphenyl	98		70 - 135				03/15/23 13:05	03/16/23 15:31	

Method: EPA 300.0 - Anions, lo	n Chromat	ography - D	L						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1060		5.00	2.00	mg/L			03/25/23 05:09	10

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water Facility

**Client Sample ID: WS-6** Lab Sample ID: 890-4287-6

Date Collected: 03/10/23 13:43 Date Received: 03/10/23 15:40

**Matrix: Water** 

Job ID: 890-4287-1

SDG: KH227027

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100	0.000533	mg/L			03/15/23 18:19	1
Toluene	<0.00100	U	0.00100	0.000475	mg/L			03/15/23 18:19	1
Ethylbenzene	<0.00100	U	0.00100	0.000411	mg/L			03/15/23 18:19	1
m,p-Xylenes	<0.0100	U	0.0100	0.00124	mg/L			03/15/23 18:19	1
o-Xylene	<0.00100	U	0.00100	0.000551	mg/L			03/15/23 18:19	1
Xylenes, Total	<0.0100	U	0.0100	0.00124	mg/L			03/15/23 18:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		63 - 144					03/15/23 18:19	1
4-Bromofluorobenzene (Surr)	92		74 - 124					03/15/23 18:19	1
Dibromofluoromethane (Surr)	110		75 - 131					03/15/23 18:19	1
Toluene-d8 (Surr)	92		80 - 117					03/15/23 18:19	1

Method: TAL SOP Total BTEX	- Total BTEX Calcul	lation					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTFX	<0.0100 U	0.0100	0.00124 mg/L			03/16/23 17:52	

Method: SW846 8015 NM - Die	sel Range (	Organics (	DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<4.52	U	4.52	0.893	mg/L			03/20/23 16:53	1

Method: SW846 8015B NM - L	Jiesei Range	Organics	(DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<4.52	U	4.52	0.893	mg/L		03/15/23 13:05	03/16/23 15:51	1
Diesel Range Organics (Over C10-C28)	<4.52	U	4.52	0.893	mg/L		03/15/23 13:05	03/16/23 15:51	1
Oll Range Organics (Over C28-C36)	<4.52	U	4.52	0.862	mg/L		03/15/23 13:05	03/16/23 15:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 135				03/15/23 13:05	03/16/23 15:51	1

o-Terphenyl	103	70 - 135		C	03/15/23 13:05	03/16/23 15:51	1
Method: EPA 300.0 - Anions, Ion C	hromatography - D	L					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac

_	
Client Sample ID: WS-7	Lab Sample ID: 890-4287-7
Date Collected: 03/10/23 13:49	Matrix: Water

5.00

2.00 mg/L

1050

Date Received: 03/10/23 15:40

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100	0.000533	mg/L			03/15/23 18:42	1
Toluene	< 0.00100	U	0.00100	0.000475	mg/L			03/15/23 18:42	1
Ethylbenzene	< 0.00100	U	0.00100	0.000411	mg/L			03/15/23 18:42	1
m,p-Xylenes	<0.0100	U	0.0100	0.00124	mg/L			03/15/23 18:42	1
o-Xylene	< 0.00100	U	0.00100	0.000551	mg/L			03/15/23 18:42	1
Xylenes, Total	<0.0100	U	0.0100	0.00124	mg/L			03/15/23 18:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		63 - 144					03/15/23 18:42	1

**Eurofins Carlsbad** 

03/25/23 05:58

Client: Terracon Consulting Eng & Scientists

Job ID: 890-4287-1 Project/Site: Mobley Water Facility SDG: KH227027

**Client Sample ID: WS-7** Lab Sample ID: 890-4287-7 Date Collected: 03/10/23 13:49 **Matrix: Water** 

Date Received: 03/10/23 15:40

Method: SW846 8260D	- Volatile Organic	Compounds by GC/	MS (Continued)
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97

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		74 - 124		03/15/23 18:42	1
Dibromofluoromethane (Surr)	111		75 - 131		03/15/23 18:42	1
Toluene-d8 (Surr)	96		80 - 117		03/15/23 18:42	1

ı	Method: TAL SOP Total BTEX - Total BTEX Calculation									
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Total BTEX	<0.0100	U	0.0100	0.00124	mg/L			03/16/23 17:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<3.67	U	3.67	0.725	mg/L			03/20/23 16:53	1

Method: SW846 8015B NM - D	Diesel Range	e Organics	s (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<3.67	U	3.67	0.725	mg/L		03/15/23 13:05	03/16/23 16:11	1
Diesel Range Organics (Over C10-C28)	<3.67	U	3.67	0.725	mg/L		03/15/23 13:05	03/16/23 16:11	1
Oll Range Organics (Over C28-C36)	<3.67	U	3.67	0.699	mg/L		03/15/23 13:05	03/16/23 16:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 135				03/15/23 13:05	03/16/23 16:11	

Method: EPA 300.0 - Anions, Id	on Chromat	tography -	DL						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1090		5.00	2.00	mg/L			03/25/23 06:23	10

70 - 135

**Client Sample ID: WS-8** Lab Sample ID: 890-4287-8 Date Collected: 03/10/23 13:57 **Matrix: Water** 

**MDL** Unit

Date Received: 03/10/23 15:40

o-Terphenyl

Method: SW846 8260D - Volatile	Organic Compounds t	by GC/MS
Analyte	Result Qualifier	RL

Benzene	<0.00100	U	0.00100	0.000533	mg/L		03/15/23 19:05	1
Toluene	<0.00100	U	0.00100	0.000475	mg/L		03/15/23 19:05	1
Ethylbenzene	<0.00100	U	0.00100	0.000411	mg/L		03/15/23 19:05	1
m,p-Xylenes	<0.0100	U	0.0100	0.00124	mg/L		03/15/23 19:05	1
o-Xylene	<0.00100	U	0.00100	0.000551	mg/L		03/15/23 19:05	1
Xylenes, Total	<0.0100	U	0.0100	0.00124	mg/L		03/15/23 19:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		63 - 144				03/15/23 19:05	1
4-Bromofluorobenzene (Surr)	92		74 - 124				03/15/23 19:05	1
Dibromofluoromethane (Surr)	107		75 - 131				03/15/23 19:05	1
Toluene-d8 (Surr)	98		80 - 117				03/15/23 19:05	

Toluene-d8 (Surr)	98	80 - 117	03/15/23 19:05
Method: TAL SOP Total BTEX	- Total BTEX Calc	culation	

Analyte Result Qualifier **MDL** Unit RL Prepared Analyzed Dil Fac Total BTEX <0.0100 U 0.0100 03/16/23 17:52 0.00124 mg/L

**Eurofins Carlsbad** 

03/15/23 13:05 03/16/23 16:11

Analyzed

Dil Fac

Prepared

## **Client Sample Results**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water Facility

Lab Sample ID: 890-4287-8

**Matrix: Water** 

Job ID: 890-4287-1

SDG: KH227027

Date Collected: 03/10/23 13:57 Date Received: 03/10/23 15:40

**Client Sample ID: WS-8** 

Method: SW846 8015 NM - Die	esel Range Organics (DR	(GC)			
Analyte	Result Qualifier	RL_	MDL Unit	D	Prepare

Dil Fac Analyzed Total TPH <4.37 U 0.864 mg/L 03/20/23 16:53 4.37

Method: SW846 8015B NM - D	ilesei Range	Organics	s (DRO) (GC	ē)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<4.37	U	4.37	0.864	mg/L		03/15/23 13:05	03/16/23 16:50	1
Diesel Range Organics (Over C10-C28)	<4.37	U	4.37	0.864	mg/L		03/15/23 13:05	03/16/23 16:50	1
Oll Range Organics (Over C28-C36)	<4.37	U	4.37	0.834	mg/L		03/15/23 13:05	03/16/23 16:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 135	03/15/23 13:05	03/16/23 16:50	1
o-Terphenyl	96		70 - 135	03/15/23 13:05	03/16/23 16:50	1
_						

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Result Qualifier Analyte RL MDL Unit Prepared Analyzed Dil Fac Chloride 1070 5.00 2.00 mg/L 03/25/23 06:48

**Client Sample ID: WS-9** Lab Sample ID: 890-4287-9

Date Collected: 03/10/23 14:08 **Matrix: Water** 

Date Received: 03/10/23 15:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Benzene	<0.00100	U	0.00100	0.000533	mg/L			03/15/23 19:28	1
	Toluene	<0.00100	U	0.00100	0.000475	mg/L			03/15/23 19:28	1
	Ethylbenzene	<0.00100	U	0.00100	0.000411	mg/L			03/15/23 19:28	1
	m,p-Xylenes	<0.0100	U	0.0100	0.00124	mg/L			03/15/23 19:28	1
	o-Xylene	<0.00100	U	0.00100	0.000551	mg/L			03/15/23 19:28	1
	Xylenes, Total	<0.0100	U	0.0100	0.00124	mg/L			03/15/23 19:28	1

Surrogate	%Recovery Qualifier	Limits	Prepared Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107	63 - 144	03/15/23 19:	28 1
4-Bromofluorobenzene (Surr)	93	74 - 124	03/15/23 19:	28 1
Dibromofluoromethane (Surr)	108	75 - 131	03/15/23 19:	28 1
Toluene-d8 (Surr)	96	80 - 117	03/15/23 19:	28 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0100	U	0.0100	0.00124	ma/L			03/16/23 17:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result (	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<4.35 l	U	4.35	0.859	mg/L			03/20/23 16:53	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

			/ - /						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<4.35	U	4.35	0.859	mg/L		03/15/23 13:05	03/16/23 17:10	1
Diesel Range Organics (Over C10-C28)	<4.35	U	4.35	0.859	mg/L		03/15/23 13:05	03/16/23 17:10	1
Oll Range Organics (Over C28-C36)	<4.35	U	4.35	0.829	mg/L		03/15/23 13:05	03/16/23 17:10	1

## **Client Sample Results**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water Facility

**Client Sample ID: WS-9** 

Lab Sample ID: 890-4287-9

**Matrix: Water** 

03/15/23 19:50

03/15/23 19:50

Job ID: 890-4287-1

SDG: KH227027

Date Collected: 03/10/23 14:08 Date Received: 03/10/23 15:40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 135	03/15/23 13:05	03/16/23 17:10	1
o-Terphenyl	103		70 - 135	03/15/23 13:05	03/16/23 17:10	1

Method: EPA 300.0 - Anions, I	on Chromatography - D	)L					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1240	5.00	2.00 mg/L			03/27/23 16:30	10

Lab Sample ID: 890-4287-10 **Client Sample ID: WS-10 Matrix: Water** 

Date Collected: 03/10/23 14:10 Date Received: 03/10/23 15:40

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100	0.000533	mg/L			03/15/23 19:50	1
Toluene	<0.00100	U	0.00100	0.000475	mg/L			03/15/23 19:50	1
Ethylbenzene	<0.00100	U	0.00100	0.000411	mg/L			03/15/23 19:50	1
m,p-Xylenes	<0.0100	U	0.0100	0.00124	mg/L			03/15/23 19:50	1
o-Xylene	<0.00100	U	0.00100	0.000551	mg/L			03/15/23 19:50	1
Xylenes, Total	<0.0100	U	0.0100	0.00124	mg/L			03/15/23 19:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			63 - 144			-		03/15/23 19:50	1
4-Bromofluorobenzene (Surr)	93		74 - 124					03/15/23 19:50	1

Method: TAL SOP Total BTEX	- Total BTEX Calculat	ion						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.0100 U	0.0100	0.00124 mg/L			03/16/23 17:52		

75 - 131

80 - 117

107

97

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
	Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac		
	Total TPH	<4 62 II	4 62	0.912 mg/l			03/20/23 16:53			

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<4.62	U	4.62	0.912	mg/L		03/17/23 15:30	03/20/23 12:07	1
Diesel Range Organics (Over C10-C28)	<4.62	U	4.62	0.912	mg/L		03/17/23 15:30	03/20/23 12:07	1
OII Range Organics (Over C28-C36)	<4.62	U	4.62	0.880	mg/L		03/17/23 15:30	03/20/23 12:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 135				03/17/23 15:30	03/20/23 12:07	1
o-Terphenyl	92		70 - 135				03/17/23 15:30	03/20/23 12:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - DL									
	Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac	
	Chloride	1510	5.00	2.00 mg/L			03/27/23 16:55	10	

## **Surrogate Summary**

Client: Terracon Consulting Eng & Scientists Job ID: 890-4287-1 Project/Site: Mobley Water Facility SDG: KH227027

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

**Matrix: Water Prep Type: Total/NA** 

					gate Recovery (Acceptance Limits)	
		DCA	BFB	DBFM	TOL	
Lab Sample ID	Client Sample ID	(63-144)	(74-124)	(75-131)	(80-117)	
890-4287-1	WS-1	110	93	102	96	
890-4287-2	WS-2	107	90	103	97	
890-4287-3	WS-3	109	93	104	98	
890-4287-4	WS-4	108	92	109	96	
890-4287-5	WS-5	108	90	110	96	
890-4287-6	WS-6	117	92	110	92	
890-4287-7	WS-7	114	92	111	96	
890-4287-8	WS-8	107	92	107	98	
890-4287-9	WS-9	107	93	108	96	
890-4287-10	WS-10	112	93	107	97	
LCS 860-94209/3	Lab Control Sample	100	96	110	91	
LCSD 860-94209/4	Lab Control Sample Dup	101	98	101	90	
MB 860-94209/7	Method Blank	108	94	104	97	

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: Water** Prep Type: Total/NA

			Pe
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-135)	(70-135)
890-4287-1	WS-1	100	102
890-4287-2	WS-2	111	115
890-4287-3	WS-3	108	111
890-4287-4	WS-4	95	99
890-4287-5	WS-5	94	98
890-4287-6	WS-6	99	103
890-4287-7	WS-7	96	97
890-4287-8	WS-8	96	96
890-4287-9	WS-9	102	103
890-4287-10	WS-10	100	92
LCS 860-94271/2-A	Lab Control Sample	96	105
LCS 860-94748/2-A	Lab Control Sample	94	97
LCSD 860-94271/3-A	Lab Control Sample Dup	89	95
LCSD 860-94748/3-A	Lab Control Sample Dup	93	93
MB 860-94271/1-A	Method Blank	103	108
	Method Blank	86	89

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

## QC Sample Results

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water Facility

Job ID: 890-4287-1

SDG: KH227027

### Method: 8260D - Volatile Organic Compounds by GC/MS

<0.0100 U

Lab Sample ID: MB 860-94209/7

**Matrix: Water** 

Analyte

Benzene

Toluene

Ethylbenzene

m,p-Xylenes

Xylenes, Total

o-Xylene

**Analysis Batch: 94209** 

<b>Client Sample</b>	D: Method Blank
P	rep Type: Total/NA

03/15/23 11:46

MB MB Result Qualifier RL **MDL** Unit Prepared Dil Fac Analyzed <0.00100 U 0.00100 0.000533 mg/L 03/15/23 11:46 <0.00100 U 0.00100 0.000475 mg/L 03/15/23 11:46 0.000411 mg/L <0.00100 U 0.00100 03/15/23 11:46 <0.0100 U 0.0100 0.00124 mg/L 03/15/23 11:46 <0.00100 U 0.00100 0.000551 mg/L 03/15/23 11:46

0.00124 mg/L

100 100

MB MB Surrogate %Recovery Qualifier Limits Prepared Dil Fac Analyzed 108 63 - 144 1,2-Dichloroethane-d4 (Surr) 03/15/23 11:46 4-Bromofluorobenzene (Surr) 94 74 - 124 03/15/23 11:46 104 75 - 131 Dibromofluoromethane (Surr) 03/15/23 11:46 Toluene-d8 (Surr) 97 80 - 117 03/15/23 11:46

0.0100

Lab Sample ID: LCS 860-94209/3

**Matrix: Water** 

**Analysis Batch: 94209** 

**Client Sample ID: Lab Control Sample** 

0/ Dag

Prep Type: Total/NA

	Spike	LUS	LUS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.0500	0.04753		mg/L		95	75 - 125	
Toluene	0.0500	0.04367		mg/L		87	70 - 130	
Ethylbenzene	0.0500	0.04403		mg/L		88	75 - 125	
m,p-Xylenes	0.0500	0.04511		mg/L		90	75 - 125	
o-Xylene	0.0500	0.04401		mg/L		88	75 - 125	

Chika

	LUS	LUS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		63 - 144
4-Bromofluorobenzene (Surr)	96		74 - 124
Dibromofluoromethane (Surr)	110		75 - 131
Toluene-d8 (Surr)	91		80 - 117

Lab Sample ID: LCSD 860-94209/4

**Matrix: Water** 

**Analysis Batch: 94209** 

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

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.0500	0.04595		mg/L		92	75 - 125	3	25
Toluene	0.0500	0.04103		mg/L		82	70 - 130	6	25
Ethylbenzene	0.0500	0.04258		mg/L		85	75 - 125	3	25
m,p-Xylenes	0.0500	0.04293		mg/L		86	75 - 125	5	25
o-Xylene	0.0500	0.04283		mg/L		86	75 - 125	3	25

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		63 - 144
4-Bromofluorobenzene (Surr)	98		74 - 124
Dibromofluoromethane (Surr)	101		75 - 131
Toluene-d8 (Surr)	90		80 - 117

## **QC Sample Results**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water Facility

Job ID: 890-4287-1

SDG: KH227027

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

Lab Sample ID: MB 860-94271/1-A

Lab Sample ID: LCS 860-94271/2-A

**Matrix: Water** 

**Analysis Batch: 94441** 

**Client Sample ID: Method Blank** 

Prep Type: Total/NA

Prep Batch: 94271

Analyte         Result         Qualifier         RL         MDL unit         D grepared         Analyzed           Gasoline Range Organics (GRO)-C6-C10         5.00         0.988 mg/L         03/15/23 13:05         03/16/23 13:05         03/16/23 13:05         03/16/23 13:05         03/15/23 13:05         03/16/23 13:05								MB	MB	
(GRO)-C6-C10 Diesel Range Organics (Over <5.00 U 5.00 0.988 mg/L 03/15/23 13:05 03/16/23 13: C10-C28) Oll Range Organics (Over C28-C36) <5.00 U 5.00 0.954 mg/L 03/15/23 13:05 03/16/23 13:	ed Dil Fac	Analyzed	Prepared	it D	L U	MDL	RL	Qualifier	Result	Analyte
C10-C28) OII Range Organics (Over C28-C36) <5.00 U 5.00 0.954 mg/L 03/15/23 13:05 03/16/23 13:05	3:53 1	03/16/23 13:53	03/15/23 13:05	/L	8 m	0.988	5.00	U	<5.00	5 5
	3:53 1	03/16/23 13:53	03/15/23 13:05	/L	8 m	0.988	5.00	U	<5.00	• • • •
MB MB	3:53 1	03/16/23 13:53	03/15/23 13:05	/L	4 m	0.954	5.00			Oll Range Organics (Over C28-C36)
0/8 0/9 1/9										

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 135	03/15/23 13:05	03/16/23 13:53	1
o-Terphenyl	108		70 - 135	03/15/23 13:05	03/16/23 13:53	1

**Client Sample ID: Lab Control Sample** 

**Prep Type: Total/NA** 

Prep Batch: 94271

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit Limits D %Rec 99.8 134.7 135 70 - 135 Gasoline Range Organics mg/L (GRO)-C6-C10 Diesel Range Organics (Over 100 113.0 70 - 135 mg/L 113 C10-C28)

LCS LCS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	96	70 - 135
o-Terphenyl	105	70 - 135

Lab Sample ID: LCSD 860-94271/3-A

**Matrix: Water** 

**Matrix: Water** 

**Analysis Batch: 94230** 

**Analysis Batch: 94230** 

Client San	nple ID:	Lab	Control	Sam	ple Dup
			Pron Ty	me: T	otal/NA

Prep Batch: 94271

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	99.8	127.7		mg/L		128	70 - 135	22	35
(GRO)-C6-C10									
Diesel Range Organics (Over	100	104.2		mg/L		104	70 - 135	8	35
C10-C28)									

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	89		70 - 135
o-Terphenyl	95		70 - 135

Lab Sample ID: MB 860-94748/1-A

**Matrix: Water** 

**Analysis Batch: 94655** 

Client Sample ID: Method Blank

**Prep Type: Total/NA** 

Prep Batch: 94748

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<5.00	U	5.00	0.988	mg/L		03/17/23 15:30	03/17/23 20:40	1
Diesel Range Organics (Over C10-C28)	<5.00	U	5.00	0.988	mg/L		03/17/23 15:30	03/17/23 20:40	1
Oll Range Organics (Over C28-C36)	<5.00	U	5.00	0.954	mg/L		03/17/23 15:30	03/17/23 20:40	1

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water Facility

Job ID: 890-4287-1

SDG: KH227027

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

Lab Sample ID: MB 860-94748/1-A

Lab Sample ID: LCS 860-94748/2-A

Lab Sample ID: LCSD 860-94748/3-A

**Matrix: Water** 

**Analysis Batch: 94655** 

Client Sample ID: Method Blank

**Prep Type: Total/NA** 

Prep Batch: 94748

MB MB

%Recovery Qualifier Limits Prepared Analyzed Dil Fac Surrogate 1-Chlorooctane 86 70 - 135 03/17/23 15:30 03/17/23 20:40 o-Terphenyl 89 70 - 135 03/17/23 15:30 03/17/23 20:40

**Client Sample ID: Lab Control Sample** 

**Prep Type: Total/NA** 

Prep Batch: 94748

**Matrix: Water Analysis Batch: 94655** 

, , , , , , , , , , , , , , , , , , , ,	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	 99.5	106.4		mg/L		107	70 - 135	
(GRO)-C6-C10								
Diesel Range Organics (Over	99.6	93.57		mg/L		94	70 - 135	
C10-C28)								

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	94		70 - 135
o-Terphenyl	97		70 - 135

**Client Sample ID: Lab Control Sample Dup** 

95

70 - 135

Prep Type: Total/NA Prep Batch: 94748

**Matrix: Water** 

**Analysis Batch: 94655** 

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Limits RPD Unit D %Rec I imit 70 - 135 Gasoline Range Organics 99.5 108.4 mg/L 109 2 35 (GRO)-C6-C10

94.82

Diesel Range Organics (Over C10-C28)

Analyte

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	93		70 - 135
o-Terphenyl	93		70 - 135

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-95757/3 Client Sample ID: Method Blank **Prep Type: Total/NA** 

99.6

**Matrix: Water** 

**Analysis Batch: 95757** 

•	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.500	П	0.500	0.200	ma/l			03/24/23 15:00	

Lab Sample ID: MB 860-95757/50

**Matrix: Water** 

**Analysis Batch: 95757** 

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

mg/L

MB MB

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Chloride <0.500 U 0.500 0.200 mg/L 03/25/23 00:49

**Eurofins Carlsbad** 

## QC Sample Results

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water Facility

Job ID: 890-4287-1

SDG: KH227027

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-95757/4 Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA

**Analysis Batch: 95757** 

Spike LCS LCS %Rec Added Result Qualifier %Rec Limits Analyte Unit D Chloride 10.0 9.957 mg/L 100 90 - 110

Lab Sample ID: LCS 860-95757/51 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

**Analysis Batch: 95757** 

Spike LCS LCS %Rec Added Result Qualifier D %Rec Limits Analyte Unit 10.0 Chloride 9.784 mg/L 98 90 - 110

Lab Sample ID: LCSD 860-95757/5 Client Sample ID: Lab Control Sample Dup **Matrix: Water Prep Type: Total/NA** 

**Analysis Batch: 95757** 

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Limits **RPD** Analyte Unit %Rec Limit Chloride 10.0 10.09 101 90 - 110 20 mg/L

Lab Sample ID: LCSD 860-95757/52 Client Sample ID: Lab Control Sample Dup **Matrix: Water Prep Type: Total/NA** 

**Analysis Batch: 95757** 

Spike LCSD LCSD **RPD** %Rec Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit 9.854 Chloride 10.0 mg/L 90 - 110

Lab Sample ID: LLCS 860-95757/7 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

**Analysis Batch: 95757** 

LLCS LLCS Spike %Rec Added Analyte Result Qualifier Unit %Rec Limits Chloride 0.500 0.5421 108 50 - 150 mg/L

Lab Sample ID: MB 860-96004/3 Client Sample ID: Method Blank Prep Type: Total/NA

**Matrix: Water** 

**Analysis Batch: 96004** 

MB MB Result Qualifier **MDL** Unit Analyte RL D Dil Fac Prepared Analyzed 0.500 Chloride <0.500 U 0.200 mg/L 03/27/23 14:31

Lab Sample ID: LCS 860-96004/4 Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA

**Analysis Batch: 96004** 

Spike LCS LCS %Rec Added Result Qualifier Limits Analyte Unit D %Rec Chloride 10.0 9.848 mg/L 98 90 - 110

Lab Sample ID: LCSD 860-96004/5 Client Sample ID: Lab Control Sample Dup **Matrix: Water** Prep Type: Total/NA

**Analysis Batch: 96004** 

Released to Imaging: 6/10/2025 2:35:50 PM

Spike LCSD LCSD %Rec **RPD** Added **RPD** Analyte Result Qualifier Unit D %Rec Limits Limit Chloride 10.0 9.888 mg/L 99 90 - 110 20

## **QC Association Summary**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water Facility

Job ID: 890-4287-1 SDG: KH227027

### **GC/MS VOA**

#### **Analysis Batch: 94209**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4287-1	WS-1	Total/NA	Water	8260D	
890-4287-2	WS-2	Total/NA	Water	8260D	
890-4287-3	WS-3	Total/NA	Water	8260D	
890-4287-4	WS-4	Total/NA	Water	8260D	
890-4287-5	WS-5	Total/NA	Water	8260D	
890-4287-6	WS-6	Total/NA	Water	8260D	
890-4287-7	WS-7	Total/NA	Water	8260D	
890-4287-8	WS-8	Total/NA	Water	8260D	
890-4287-9	WS-9	Total/NA	Water	8260D	
890-4287-10	WS-10	Total/NA	Water	8260D	
MB 860-94209/7	Method Blank	Total/NA	Water	8260D	
LCS 860-94209/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-94209/4	Lab Control Sample Dup	Total/NA	Water	8260D	

#### **Analysis Batch: 94556**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4287-1	WS-1	Total/NA	Water	Total BTEX	- <del> </del>
890-4287-2	WS-2	Total/NA	Water	Total BTEX	
890-4287-3	WS-3	Total/NA	Water	Total BTEX	
890-4287-4	WS-4	Total/NA	Water	Total BTEX	
890-4287-5	WS-5	Total/NA	Water	Total BTEX	
890-4287-6	WS-6	Total/NA	Water	Total BTEX	
890-4287-7	WS-7	Total/NA	Water	Total BTEX	
890-4287-8	WS-8	Total/NA	Water	Total BTEX	
890-4287-9	WS-9	Total/NA	Water	Total BTEX	
890-4287-10	WS-10	Total/NA	Water	Total BTEX	

#### **GC Semi VOA**

#### **Analysis Batch: 80443**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4287-1	WS-1	Total/NA	Water	8015 NM	_
890-4287-2	WS-2	Total/NA	Water	8015 NM	
890-4287-3	WS-3	Total/NA	Water	8015 NM	
890-4287-4	WS-4	Total/NA	Water	8015 NM	
890-4287-5	WS-5	Total/NA	Water	8015 NM	
890-4287-6	WS-6	Total/NA	Water	8015 NM	
890-4287-7	WS-7	Total/NA	Water	8015 NM	
890-4287-8	WS-8	Total/NA	Water	8015 NM	
890-4287-9	WS-9	Total/NA	Water	8015 NM	
890-4287-10	WS-10	Total/NA	Water	8015 NM	

#### **Analysis Batch: 94230**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-94271/2-A	Lab Control Sample	Total/NA	Water	8015B NM	94271
LCSD 860-94271/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	94271

#### Prep Batch: 94271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4287-1	WS-1	Total/NA	Water	8015NM Aq Prep	
890-4287-2	WS-2	Total/NA	Water	8015NM Aq Prep	

## **QC Association Summary**

Client: Terracon Consulting Eng & Scientists

Job ID: 890-4287-1 Project/Site: Mobley Water Facility SDG: KH227027

### GC Semi VOA (Continued)

#### Prep Batch: 94271 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
890-4287-3	WS-3	Total/NA	Water	8015NM Aq Prep
890-4287-4	WS-4	Total/NA	Water	8015NM Aq Prep
890-4287-5	WS-5	Total/NA	Water	8015NM Aq Prep
890-4287-6	WS-6	Total/NA	Water	8015NM Aq Prep
890-4287-7	WS-7	Total/NA	Water	8015NM Aq Prep
890-4287-8	WS-8	Total/NA	Water	8015NM Aq Prep
890-4287-9	WS-9	Total/NA	Water	8015NM Aq Prep
MB 860-94271/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep
LCS 860-94271/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep
LCSD 860-94271/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep

#### **Analysis Batch: 94441**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4287-1	WS-1	Total/NA	Water	8015B NM	94271
890-4287-2	WS-2	Total/NA	Water	8015B NM	94271
890-4287-3	WS-3	Total/NA	Water	8015B NM	94271
890-4287-4	WS-4	Total/NA	Water	8015B NM	94271
890-4287-5	WS-5	Total/NA	Water	8015B NM	94271
890-4287-6	WS-6	Total/NA	Water	8015B NM	94271
890-4287-7	WS-7	Total/NA	Water	8015B NM	94271
890-4287-8	WS-8	Total/NA	Water	8015B NM	94271
890-4287-9	WS-9	Total/NA	Water	8015B NM	94271
MB 860-94271/1-A	Method Blank	Total/NA	Water	8015B NM	94271

#### **Analysis Batch: 94655**

Lab Sample ID MB 860-94748/1-A	Client Sample ID  Method Blank	Prep Type Total/NA	Matrix Water	Method 8015B NM	Prep Batch 94748
LCS 860-94748/2-A	Lab Control Sample	Total/NA	Water	8015B NM	94748
LCSD 860-94748/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	94748

#### Prep Batch: 94748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4287-10	WS-10	Total/NA	Water	8015NM Aq Prep	
MB 860-94748/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-94748/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-94748/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

#### **Analysis Batch: 94886**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4287-10	WS-10	Total/NA	Water	8015B NM	94748

#### HPLC/IC

#### **Analysis Batch: 95757**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4287-1 - DL	WS-1	Total/NA	Water	300.0	
890-4287-2 - DL	WS-2	Total/NA	Water	300.0	
890-4287-3 - DL	WS-3	Total/NA	Water	300.0	
890-4287-4 - DL	WS-4	Total/NA	Water	300.0	
890-4287-5 - DL	WS-5	Total/NA	Water	300.0	
890-4287-6 - DL	WS-6	Total/NA	Water	300.0	

## **QC Association Summary**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water Facility

Job ID: 890-4287-1 SDG: KH227027

## **HPLC/IC (Continued)**

#### **Analysis Batch: 95757 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4287-7 - DL	WS-7	Total/NA	Water	300.0	
890-4287-8 - DL	WS-8	Total/NA	Water	300.0	
MB 860-95757/3	Method Blank	Total/NA	Water	300.0	
MB 860-95757/50	Method Blank	Total/NA	Water	300.0	
LCS 860-95757/4	Lab Control Sample	Total/NA	Water	300.0	
LCS 860-95757/51	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-95757/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 860-95757/52	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-95757/7	Lab Control Sample	Total/NA	Water	300.0	

#### Analysis Batch: 96004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4287-9 - DL	WS-9	Total/NA	Water	300.0	
890-4287-10 - DL	WS-10	Total/NA	Water	300.0	
MB 860-96004/3	Method Blank	Total/NA	Water	300.0	
LCS 860-96004/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-96004/5	Lab Control Sample Dup	Total/NA	Water	300.0	

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#### Lab Chronicle

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water Facility

Lab Sample ID: 890-4287-1

**Matrix: Water** 

Job ID: 890-4287-1

SDG: KH227027

Date Collected: 03/10/23 13:16 Date Received: 03/10/23 15:40

Client Sample ID: WS-1

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	94209	03/15/23 16:23	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			94556	03/16/23 17:52	JBS	EET HOU
Total/NA	Analysis	8015 NM		1			80443	03/20/23 16:53	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			32.3 mL	3 mL	94271	03/15/23 13:05	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			94441	03/16/23 14:13	SAR	EET HOU
Total/NA	Analysis	300.0	DL	10			95757	03/25/23 03:30	A1S	EET HOU

Lab Sample ID: 890-4287-2 Client Sample ID: WS-2

Date Collected: 03/10/23 13:22 **Matrix: Water** Date Received: 03/10/23 15:40

Batch Batch Dil Initial Final Batch Prepared **Prep Type** Type Method Run **Factor Amount** Amount Number or Analyzed Analyst Lab Total/NA Analysis 8260D 5 mL 5 mL 94209 03/15/23 16:46 JBS EET HOU Total/NA Analysis Total BTEX 94556 03/16/23 17:52 JBS **EET HOU** Total/NA Analysis 8015 NM 1 80443 03/20/23 16:53 DD **EET HOU** Total/NA Prep 8015NM Aq Prep 33 mL 3 mL 94271 03/15/23 13:05 SAR **EET HOU** Total/NA 94441 Analysis 8015B NM 1 03/16/23 14:33 SAR **EET HOU** Total/NA Analysis 300.0 DL 10 95757 03/25/23 03:54 A1S **EET HOU** 

Client Sample ID: WS-3 Lab Sample ID: 890-4287-3 Date Collected: 03/10/23 13:27 **Matrix: Water** 

Date Received: 03/10/23 15:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	94209	03/15/23 17:10	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			94556	03/16/23 17:52	JBS	EET HOU
Total/NA	Analysis	8015 NM		1			80443	03/20/23 16:53	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			32.7 mL	3 mL	94271	03/15/23 13:05	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			94441	03/16/23 14:52	SAR	EET HOU
Total/NA	Analysis	300.0	DL	10			95757	03/25/23 04:19	A1S	EET HOU

Client Sample ID: WS-4 Lab Sample ID: 890-4287-4 Date Collected: 03/10/23 13:32 **Matrix: Water** 

Date Received: 03/10/23 15:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	94209	03/15/23 17:33	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			94556	03/16/23 17:52	JBS	EET HOU
Total/NA	Analysis	8015 NM		1			80443	03/20/23 16:53	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			32 mL	3 mL	94271	03/15/23 13:05	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			94441	03/16/23 15:12	SAR	EET HOU
Total/NA	Analysis	300.0	DL	10			95757	03/25/23 04:44	A1S	EET HOU

#### Lab Chronicle

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water Facility

Lab Sample ID: 890-4287-5

**Matrix: Water** 

**Matrix: Water** 

SDG: KH227027

Job ID: 890-4287-1

**Client Sample ID: WS-5** Date Collected: 03/10/23 13:36

Date Received: 03/10/23 15:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	94209	03/15/23 17:56	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			94556	03/16/23 17:52	JBS	EET HOU
Total/NA	Analysis	8015 NM		1			80443	03/20/23 16:53	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			35.4 mL	3 mL	94271	03/15/23 13:05	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			94441	03/16/23 15:31	SAR	EET HOU
Total/NA	Analysis	300.0	DL	10			95757	03/25/23 05:09	A1S	EET HOU

Lab Sample ID: 890-4287-6 **Client Sample ID: WS-6** 

Date Collected: 03/10/23 13:43 Date Received: 03/10/23 15:40

Batch Batch Dil Initial Final Batch Prepared **Prep Type** Type Method Run **Factor Amount** Amount Number or Analyzed Analyst Lab Total/NA Analysis 8260D 5 mL 5 mL 94209 03/15/23 18:19 JBS EET HOU Total/NA Analysis Total BTEX 94556 03/16/23 17:52 JBS **EET HOU** Total/NA Analysis 8015 NM 80443 03/20/23 16:53 DD **EET HOU** Total/NA Prep 8015NM Aq Prep 33.2 mL 3 mL 94271 03/15/23 13:05 SAR **EET HOU** Total/NA 94441 Analysis 8015B NM 1 03/16/23 15:51 SAR **EET HOU** Total/NA Analysis 300.0 DL 10 95757 03/25/23 05:58 A1S **EET HOU** 

Client Sample ID: WS-7 Lab Sample ID: 890-4287-7 Date Collected: 03/10/23 13:49 **Matrix: Water** 

Date Received: 03/10/23 15:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	94209	03/15/23 18:42	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			94556	03/16/23 17:52	JBS	EET HOU
Total/NA	Analysis	8015 NM		1			80443	03/20/23 16:53	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			40.9 mL	3 mL	94271	03/15/23 13:05	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			94441	03/16/23 16:11	SAR	EET HOU
Total/NA	Analysis	300.0	DL	10			95757	03/25/23 06:23	A1S	EET HO

**Client Sample ID: WS-8** Lab Sample ID: 890-4287-8

Date Collected: 03/10/23 13:57 Date Received: 03/10/23 15:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	94209	03/15/23 19:05	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			94556	03/16/23 17:52	JBS	EET HOU
Total/NA	Analysis	8015 NM		1			80443	03/20/23 16:53	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			34.3 mL	3 mL	94271	03/15/23 13:05	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			94441	03/16/23 16:50	SAR	EET HOU
Total/NA	Analysis	300.0	DL	10			95757	03/25/23 06:48	A1S	EET HOU

**Eurofins Carlsbad** 

**Matrix: Water** 

#### **Lab Chronicle**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water Facility

SDG: KH227027

**Client Sample ID: WS-9** 

Lab Sample ID: 890-4287-9

**Matrix: Water** 

Job ID: 890-4287-1

Date Collected: 03/10/23 14:08 Date Received: 03/10/23 15:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	94209	03/15/23 19:28	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			94556	03/16/23 17:52	JBS	EET HOU
Total/NA	Analysis	8015 NM		1			80443	03/20/23 16:53	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			34.5 mL	3 mL	94271	03/15/23 13:05	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			94441	03/16/23 17:10	SAR	EET HOU
Total/NA	Analysis	300.0	DL	10			96004	03/27/23 16:30	RBNS	EET HOU

Lab Sample ID: 890-4287-10

**Client Sample ID: WS-10** Date Collected: 03/10/23 14:10 **Matrix: Water** 

Date Received: 03/10/23 15:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D	-	1	5 mL	5 mL	94209	03/15/23 19:50	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			94556	03/16/23 17:52	JBS	EET HOU
Total/NA	Analysis	8015 NM		1			80443	03/20/23 16:53	DD	EET HOU
Total/NA	Prep	8015NM Aq Prep			32.5 mL	3 mL	94748	03/17/23 15:30	SAR	EET HOU
Total/NA	Analysis	8015B NM		1			94886	03/20/23 12:07	SAR	EET HOU
Total/NA	Analysis	300.0	DL	10			96004	03/27/23 16:55	RBNS	EET HOU

#### **Laboratory References:**

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

## **Accreditation/Certification Summary**

Client: Terracon Consulting Eng & Scientists

Job ID: 890-4287-1 Project/Site: Mobley Water Facility SDG: KH227027

#### **Laboratory: Eurofins Houston**

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	<b>Expiration Date</b>
Arkansas DEQ	State	88-00759	08-04-23
Florida	NELAP	E871002	06-30-23
Louisiana	NELAP	03054	06-30-23
Louisiana (All)	NELAP	03054	06-30-23
Oklahoma	State	1306	08-31-23
Texas	NELAP	T104704215-23-50	06-30-23
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	P330-22-00025	03-02-23 *

<sup>\*</sup> Accreditation/Certification renewal pending - accreditation/certification considered valid.

## **Method Summary**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water Facility

Job ID: 890-4287-1

SDG: KH227027

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET HOU
Total BTEX	Total BTEX Calculation	TAL SOP	EET HOU
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
300.0	Anions, Ion Chromatography	EPA	EET HOU
5030C	Purge and Trap	SW846	EET HOU
8015NM Ag Prep	Microextraction	SW846	EET HOU

#### **Protocol References:**

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

#### **Laboratory References:**

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

## **Sample Summary**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water Facility

Job ID: 890-4287-1 SDG: KH227027

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-4287-1	WS-1	Water	03/10/23 13:16	03/10/23 15:40
890-4287-2	WS-2	Water	03/10/23 13:22	03/10/23 15:40
890-4287-3	WS-3	Water	03/10/23 13:27	03/10/23 15:40
890-4287-4	WS-4	Water	03/10/23 13:32	03/10/23 15:40
890-4287-5	WS-5	Water	03/10/23 13:36	03/10/23 15:40
890-4287-6	WS-6	Water	03/10/23 13:43	03/10/23 15:40
890-4287-7	WS-7	Water	03/10/23 13:49	03/10/23 15:40
890-4287-8	WS-8	Water	03/10/23 13:57	03/10/23 15:40
890-4287-9	WS-9	Water	03/10/23 14:08	03/10/23 15:40
890-4287-10	WS-10	Water	03/10/23 14:10	03/10/23 15:40

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Project Manager:

ompany Name:

Project Number:

Project Name:

Mobiley Water Facility KH227027

Rush

Code

ANALYSIS REQUEST

ADaPT 🗌

None: NO

DI Water: H<sub>2</sub>O

Preservative Codes

5756895949

Email: Travis. Casey. @ terracon. com

City, State ZIP:

# Chain of Custody

	coursbad, NM	4518 W Pierce St	Terracon	Travis Casey			Xenco	TINS Enviror	h.
		St		Λō				Environment Testing	
	City, State ZIP:	Address:	Company Name:	Bill to: (if different)		Hobbs, NM (5	EL Paso, TX (9	Houston, TX Midland, TX (43	(
			Acquired the state of the state	SPUNE		Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Micland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	Citation Castoay
]	Reporting: Level II 🗌 Level III 🔲 PST/UST 📗 TRRP 📗 Level IV 🔲	State of Project:	Program: UST/PST PRP Brownfields RRC Superfund	Work Order Comments	www.xenco.com Page of 1			Work Order No:	

		6			0		
		4	5.10.23 154		400	CMC	mak his
Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time		Received by: (Signature)	7	Relinquished by: (Signature)
	ons ol gotiated.	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	ofins Xenco, its affiliates and inses incurred by the client the Eurofins Xenco, but not ana	from client company to Eu ibility for any losses or expr each sample submitted to	constitutes a valid purchase order and shall not assume any respons each project and a charge of \$5 fo	nd relinquishment of samples ble only for the cost of samples ge of \$85.00 will be applied to a	stice: Signature of this document a service. Eurofins Xenco will be lial Eurofins Xenco. A minimum charge
0 / 7471	U Hg: 1631 / 245.1 / 7470 / 7471	TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	Sb As Ba Be Cd	_P 6010 : 8RCRA		Metal(s) to be analy	Circle Method(s) and Metal(s) to be analyzed
n U V Zn	li K Se	Cd Ca Cr Co Cu Fe Pb Mg Mn Mo	b As Ba Be B Cd	8RCRA 13PPM Texas 11 Al Sb As Ba Be	8RCRA 13PPN	200.8 / 6020:	Total 200.7 / 6010
			4		1 2:10	•	W8-10
			7		2:08		45-9
					7:87		V2-8
			2		1:49		15-7
				~1	24:1		W5-6
					2.3		US-5
				_ 1	1:32		W5-4
				~	1:23		W5-3
				ı	1:12		W5-1
				7	3-10-73 1:16	H2O 3	WS-1
Sample Comments			# T	Depth Grab/ # of Cont	Date Time Sampled Sampled	Matrix	Sample Identification
NaOH+Ascorbic Acid: SAPC	NaOt			0.0	Corrected Temperature:	()	Total Containers:
Zn Acetate+NaOH: Zn	Zn A	890-4267 Chall of Casiony		.0	Temperature Reading:	Yes No N/A T	Sample Custody Seals:
Na 2S 2O3: NaSO 3	Na <sub>2</sub> S				Correction Factor:	Yes No (N/A)	Cooler Custody Seals:
NaHSO 4: NABIS	NaHS		h	MCC I	Thermometer ID:	Yes No	Samples Received Intact:
H³bO′:Hb	Н,РС		10	Yes No	Yes No Wet Ice:	Temp Blank:	SAMPLE RECEIPT
H <sub>2</sub> S0 <sub>4</sub> ; H <sub>2</sub> NaOH: Na	H <sub>2</sub> S0		<u> </u>	L	the lab, if received by 4:30pm		
HC HNO 3: HN	I I I HCL: HC		2	ay received by	TAT starts the day received by	Justin Friend	Sampler's Name:
Cool: Cool MeOH: Me	Cool:				Due Date:		Project Location:

**Environment Testing** 

🔅 eurofins

Chain of Custody Record

**Eurofins Carlsbad** 

Carlsbad, NM 88220

1089 N Canal St.

Ver 06/08/2021

IR ID:HOU-344

C/F.-0.2 2 .1 Date/Time:

Cooler Temperature(s) C and Other Remarks:

Temp.

Date/Time: 3/14/2023 10 05

Method of Shipment

FedEX

sceived by: Received by:

> Company Sompany

Jate/Time: Jate/Time

FedEX

The

Corrected Temp: 1 4

13 14

TSP Dodecahydrate Acetone MCAA AsNaO2 Na2O4S Na2SO3 Na2S2O3 H2SO4 pH 4-5 Trizma Preservation Code A HCL
B NOCH
C Zh Acetate
C Zh Acetate
E Nath-Scy
F McOH
H Ascorbic Acid
I lee
J Di Water
L EDA HCL NaOH Zn Acetate Nitric Acid NaHSO4 MeOH Amchior Page: Page 1 of 2 B90-4287-1 890-1175.1 できた Samer Tracking No(s): State of Origin: New Mexico **Analysis Requested** Jessica.Kramer@et.eurofinsus.com Accreditations Required (See note): × × × × × × × × H9T [[u] qorq\_pA\_MNato8\MN\_dOMato × × × × × × × × × × × × × × × × × × Yata\_lato × Jessica × × × × × × × × Lab PM: Kramer Matrix Water Water Water Water Water Water Water Water Water (C=Comp, Sample Type Mountain 13:27 Mountain 13:32 Mountain 13:49 Mountain 13:36 Mountain 13:57 Mountain 14:08 Mountain 13:22 Mountain 13:43 Mountain Sample 'AT Requested (days) Due Date Requested: Sample Date 3/10/23 3/10/23 3/10/23 3/10/23 3/10/23 3/10/23 3/10/23 3/10/23 3/10/23 Project #: 88000422 3/16/2023 hone: # 0/v Client Information (Sub Contract Lab) Client ID (Lab ID) Phone; 575-986-3199 Fax: 575-988-3199 Eurofins Environment Testing South Cents Sample Identification NS-6 (890-4287-6) NS-8 (890-4287-8) WS-1 (890-4287-1) WS-3 (890-4287-3) WS-4 (890-4287-4) NS-7 (890-4287 7) WS-9 (890-4287-9) Shipping/Receiving 1145 Greenbriar Dr WS-2 (890-4287-2) WS-5 (890-4287-5) 281-240-4200(Tel) Ferracon General State, Zp: TX, 77477 Stafford

vote: Since aboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratory or other instructions will be provided. Any changes to aboratory 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 Oustboy attesting to said compliance to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Oustboy attesting to said compliance to Eurofins Environment Testing South Central, LLC Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month) Disposal By Lab Return To Client Disp Special Instructions/QC Requirements: Primary Deliverable Rank: 2 Unconfirmed
Deliverable Requested: 1 II, III IV Other (specify) Possible Hazard Identification

dinquished by: slinquished by: linquished by:

mpty Kit Relinquished by

3/28/2023 (Rev. 1)

Custody Seal No.

Custody Seals Intact:

Δ Yes Δ No

**Environment Testing** 

🔅 eurofins

Chain of Custody Record

**Eurofins Carlsbad** 

Carlsbad, NM 88220

1089 N Canal St.

			<u> </u>			į					_	
oty Kit Relinquished by:		Date:	Time:	ió		Method of	Method of Shipment:		] 			
quished by:	Date/Time:		Company	Received by	FedEX		Date/Time:		Company			
quished by: FedEX	Date/Time:		Company	Received by:	lesecop	ر راخ ا	Date/Time: 3/14/2023 10 05	9 02	Company EX	M M		P
quished by:	Date/Time:		Company	Received Ky:	2		Dete/fime:	IR ID:HOU-344	Company			age (
stody Seals intact: Custody Seal No. Δ Yes. Δ No.				Cooler Temperature	Cooler Temperature(s) <sup>a</sup> C and Other Remarks:		2 <b>2. {</b> ed Temr					82 oj
									/er 06/08/2021	/2021	•	f 4.
				13 14	11 12		7 8 9	<b>5</b>				19

J None
J AsNaO2
P Na2O4S
Q Na2O3
R Na2S203
R Na2S203
F Na2S204
T TSP Dodecahydrate
U Acetone
V MCAA
W PH 4-5
Y Trizma Special Instructions/Note: Vote: Since abocatory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract aboratority or other instructions will be provided. Any changes to above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC later instructions will be provided. Any changes to 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 compliance to Eurofins Environment Testing South Central, LLC. other (specify) Months Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab MoniSpecial Instructions/QC Requirements. Preservation Codes: A HCL
B NaOH
C ZA Accelse
D Nitric Acid
E NaHSO4
E NaHSO4
E MacOH
G Amchlor
H Ascorbic Acid
I (ce
I (ce
X EDTA Page: Page 2 of 2 890-1175.2 890-4287-1 Stalls float of the must fix o 「神神学」では、「これ」では、 Carrier Tracking No(s) State of Origin: New Mexico Analysis Requested Jessica.Kramer@et.eurofinsus.com Accreditations Required (See note): NELAP Texas H9T IIUR qeng\_pA\_MMatos\MM\_GOMatos × × 904 PMOD\_Calo Lab PM: Kramer Jessica E-Mail: × 8560D/6030C BTEX Matrix ion/Code: Water Type (C≕comp, Sample 14.10 Mountain Sample Primary Deliverable Rank. AT Requested (days): Due Date Requested: 3/16/2023 Sample Date 3/10/23 Project #: 88000422 SSOW#: hone: Sample Identification Client ID (Lab ID) Client Information (Sub Contract Lab) Deliverable Requested: I III IV Other (specify) Phone: 575-988-3199 Fax: 575-988-3199 Jompany Eurofins Environment Testing South Centr Possible Hazard Identification NS-10 (890-4287-10) Shipping/Receiving 1145 Greenbriar Dr 281-240-4200(Tel) erracon General Unconfirmed State, Zip: TX, 77477 elinquished elinquished elinquished Empty Kit Stafford

Custody

Client: Terracon Consulting Eng & Scientists

Job Number: 890-4287-1

SDG Number: KH227027

Login Number: 4287 List Source: Eurofins Carlsbad

List Number: 1

Creator: Stutzman, Amanda

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Client: Terracon Consulting Eng & Scientists Job Number: 890-4287-1 SDG Number: KH227027

List Source: Eurofins Carlsbad

Login Number: 4287 List Number: 2

Creator: Stutzman, Amanda

Comment Question **Answer** 

The cooler's custody seal, if present, is intact.

Sample custody seals, if present, are intact.

The cooler or samples do not appear to have been compromised or tampered with.

Samples were received on ice.

Cooler Temperature is acceptable.

Cooler Temperature is recorded.

COC is present.

COC is filled out in ink and legible.

COC is filled out with all pertinent information.

Is the Field Sampler's name present on COC?

There are no discrepancies between the containers received and the COC.

Samples are received within Holding Time (excluding tests with immediate HTs)

Sample containers have legible labels.

Containers are not broken or leaking.

Sample collection date/times are provided.

Appropriate sample containers are used.

Sample bottles are completely filled.

Sample Preservation Verified.

There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of

sampling.

Client: Terracon Consulting Eng & Scientists

Job Number: 890-4287-1

SDG Number: KH227027

**List Source: Eurofins Houston** 

List Creation: 03/14/23 08:29 PM

Login Number: 4287
List Number: 3
Creator: Pena, Jesiel

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

**Environment Testing** 

# **ANALYTICAL REPORT**

## PREPARED FOR

Attn: Joseph Guesnier Terracon Consulting Eng & Scientists 5847 50th St Lubbock, Texas 79424

Generated 3/29/2023 3:58:03 PM

## **JOB DESCRIPTION**

Mobley Water Facility SDG NUMBER KH227027

## **JOB NUMBER**

890-4386-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



## **Eurofins Carlsbad**

## **Job Notes**

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

## **Authorization**

Generated 3/29/2023 3:58:03 PM

Authorized for release by Jessica Kramer, Project Manager Jessica.Kramer@et.eurofinsus.com (432)704-5440

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water Facility

Laboratory Job ID: 890-4386-1 SDG: KH227027

# **Table of Contents**

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
QC Sample Results	8
QC Association Summary	9
Lab Chronicle	10
Certification Summary	12
Method Summary	
Sample Summary	14
Chain of Custody	15
Receipt Checklists	

## **Definitions/Glossary**

Client: Terracon Consulting Eng & Scientists Job ID: 890-4386-1 Project/Site: Mobley Water Facility SDG: KH227027

#### **Qualifiers**

#### HPLC/IC

Qualifier **Qualifier Description** 

Indicates the analyte was analyzed for but not detected.

Most Probable Number

Not Calculated

Negative / Absent

Positive / Present

Presumptive

**Quality Control** 

Method Quantitation Limit

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Not Detected at the reporting limit (or MDL or EDL if shown)

#### Glossary

MPN

MQL

NC

ND NEG

POS

PQL

QC

RER

RL RPD

TEF

TEQ

**TNTC** 

**PRES** 

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)

#### **Case Narrative**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water Facility

Job ID: 890-4386-1 SDG: KH227027

Job ID: 890-4386-1

**Laboratory: Eurofins Carlsbad** 

Narrative

Job Narrative 890-4386-1

#### Receipt

The samples were received on 3/22/2023 2:20 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.2°C

#### **Receipt Exceptions**

The following samples analyzed for method <FRACTION\_METHOD> were received and analyzed from an unpreserved bulk soil jar: W-BH-01 3' (890-4386-1), W-BH-02 3' (890-4386-2), W-BH-03 3' (890-4386-3), W-BH-04 5' (890-4386-4), E-BH-01 4' (890-4386-5), E-BH-02 4' (890-4386-6), E-BH-03 5' (890-4386-7), E-BH-04 5' (890-4386-8), E-BH-05 5' (890-4386-9) and E-BH-06 4' (890-4386-10).

#### HPLC/IC

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-49688 and analytical batch 880-49839 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.W-BH-01 3' (890-4386-1), W-BH-02 3' (890-4386-2), W-BH-03 3' (890-4386-3), W-BH-04 5' (890-4386-4) and E-BH-01 4' (890-4386-5)

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

## **Client Sample Results**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water Facility

SDG: KH227027

Lab Sample ID: 890-4386-1

Job ID: 890-4386-1

Client Sample ID: W-BH-01 3'

Date Collected: 03/21/23 11:42 Date Received: 03/22/23 14:20

Matrix: Solid

Sample Depth: 3

Method: EPA 300.0 - Anions, Ion C	hromatography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	89.2	4.96	mg/Kg			03/29/23 03:00	1

Client Sample ID: W-BH-02 3'

Date Collected: 03/21/23 13:07

Lab Sample ID: 890-4386-2 Matrix: Solid

Date Received: 03/22/23 14:20

Sample Depth: 3

Method: EPA 300.0 - Anions, Ion Ch	romatograp	hy - Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	275		4.95		mg/Kg			03/29/23 03:04	1

Client Sample ID: W-BH-03 3'

Lab Sample ID: 890-4386-3 Date Collected: 03/21/23 13:32

Matrix: Solid

Date Received: 03/22/23 14:20

Sample Depth: 3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	209		4.95		mg/Kg			03/29/23 03:09	1	

Client Sample ID: W-BH-04 5'

Lab Sample ID: 890-4386-4

**Matrix: Solid** 

Date Collected: 03/21/23 13:50 Date Received: 03/22/23 14:20

Sample Depth: 5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	42.3		5.02		mg/Kg			03/29/23 03:14	1

Client Sample ID: E-BH-01 4'

Lab Sample ID: 890-4386-5 Date Collected: 03/21/23 14:26 **Matrix: Solid** 

Date Received: 03/22/23 14:20

Sample Depth: 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble											
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac				
Chloride	1650	101	mg/Kg			03/29/23 03:19	20				

Client Sample ID: E-BH-02 4'

Lab Sample ID: 890-4386-6

Date Collected: 03/21/23 14:26 **Matrix: Solid** 

Date Received: 03/22/23 14:20

Sample Depth: 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac		
	Chloride	1910	101	mg/Kg			03/29/23 03:24	20		

## **Client Sample Results**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water Facility

Lab Sample ID: 890-4386-8

Lab Sample ID: 890-4386-9

Lab Sample ID: 890-4386-10

Job ID: 890-4386-1 SDG: KH227027

Client Sample ID: E-BH-03 5'

Date Collected: 03/21/23 16:38

Date Received: 03/22/23 14:20

Lab Sample ID: 890-4386-7

Matrix: Solid

**Matrix: Solid** 

**Matrix: Solid** 

**Matrix: Solid** 

Sample Depth: 5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	1010		5.00		mg/Kg			03/29/23 03:38	1

Client Sample ID: E-BH-04 5'

Date Collected: 03/22/23 10:48

Date Received: 03/22/23 14:20

Sample Depth: 5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble											
	Analyte	Result	Qualifier	RL	MDL	Unit	D		Prepared	Analyzed	Dil Fac
	Chloride	787		4.99		mg/Kg				03/29/23 03:43	1

Client Sample ID: E-BH-05 5'

Date Collected: 03/22/23 11:49

Date Received: 03/22/23 14:20

Sample Depth: 5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	372		4.98		mg/Kg			03/29/23 03:58	1	

Client Sample ID: E-BH-06 4'

Date Collected: 03/22/23 12:25

Date Received: 03/22/23 14:20

Sample Depth: 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	947		5.00		mg/Kg			03/29/23 04:02	1

#### QC Sample Results

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water Facility

Job ID: 890-4386-1

SDG: KH227027

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-49688/1-A

**Matrix: Solid** 

Analysis Batch: 49839

Client Sample ID: Method Blank

**Prep Type: Soluble** 

Client Sample ID: E-BH-02 4'

**Prep Type: Soluble** 

MB MB Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 03/29/23 02:02

Lab Sample ID: LCS 880-49688/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 49839** 

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 261.2 mg/Kg 104 90 - 110

Lab Sample ID: LCSD 880-49688/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 49839

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 262.3 105 20 mg/Kg 90 - 110

Lab Sample ID: 890-4386-6 MS Client Sample ID: E-BH-02 4 **Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 49839

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Qualifier Unit %Rec Result Limits Chloride 1910 5030 7178 105 90 - 110 mg/Kg

Lab Sample ID: 890-4386-6 MSD

Released to Imaging: 6/10/2025 2:35:50 PM

**Matrix: Solid** 

Analysis Batch: 49839

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 5030 1910 7172 mg/Kg 105 90 - 110 0 20

## **QC Association Summary**

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water Facility

Job ID: 890-4386-1 SDG: KH227027

#### **HPLC/IC**

#### Leach Batch: 49688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4386-1	W-BH-01 3'	Soluble	Solid	DI Leach	
890-4386-2	W-BH-02 3'	Soluble	Solid	DI Leach	
890-4386-3	W-BH-03 3'	Soluble	Solid	DI Leach	
890-4386-4	W-BH-04 5'	Soluble	Solid	DI Leach	
890-4386-5	E-BH-01 4'	Soluble	Solid	DI Leach	
890-4386-6	E-BH-02 4'	Soluble	Solid	DI Leach	
890-4386-7	E-BH-03 5'	Soluble	Solid	DI Leach	
890-4386-8	E-BH-04 5'	Soluble	Solid	DI Leach	
890-4386-9	E-BH-05 5'	Soluble	Solid	DI Leach	
890-4386-10	E-BH-06 4'	Soluble	Solid	DI Leach	
MB 880-49688/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-49688/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-49688/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4386-6 MS	E-BH-02 4'	Soluble	Solid	DI Leach	
890-4386-6 MSD	E-BH-02 4'	Soluble	Solid	DI Leach	

#### Analysis Batch: 49839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4386-1	W-BH-01 3'	Soluble	Solid	300.0	49688
890-4386-2	W-BH-02 3'	Soluble	Solid	300.0	49688
890-4386-3	W-BH-03 3'	Soluble	Solid	300.0	49688
890-4386-4	W-BH-04 5'	Soluble	Solid	300.0	49688
890-4386-5	E-BH-01 4'	Soluble	Solid	300.0	49688
890-4386-6	E-BH-02 4'	Soluble	Solid	300.0	49688
890-4386-7	E-BH-03 5'	Soluble	Solid	300.0	49688
890-4386-8	E-BH-04 5'	Soluble	Solid	300.0	49688
890-4386-9	E-BH-05 5'	Soluble	Solid	300.0	49688
890-4386-10	E-BH-06 4'	Soluble	Solid	300.0	49688
MB 880-49688/1-A	Method Blank	Soluble	Solid	300.0	49688
LCS 880-49688/2-A	Lab Control Sample	Soluble	Solid	300.0	49688
LCSD 880-49688/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	49688
890-4386-6 MS	E-BH-02 4'	Soluble	Solid	300.0	49688
890-4386-6 MSD	E-BH-02 4'	Soluble	Solid	300.0	49688

**Eurofins Carlsbad** 

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Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water Facility

Lab Sample ID: 890-4386-1

**Matrix: Solid** 

**Matrix: Solid** 

Client Sample ID: W-BH-01 3' Date Collected: 03/21/23 11:42

Date Received: 03/22/23 14:20

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	49688	03/28/23 09:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49839	03/29/23 03:00	SMC	EET MID

Client Sample ID: W-BH-02 3' Lab Sample ID: 890-4386-2

Date Collected: 03/21/23 13:07 **Matrix: Solid** 

Date Received: 03/22/23 14:20

		Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep T	Гуре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	e	Leach	DI Leach			5.05 g	50 mL	49688	03/28/23 09:02	KS	EET MID
Soluble	е	Analysis	300.0		1	50 mL	50 mL	49839	03/29/23 03:04	SMC	EET MID

Client Sample ID: W-BH-03 3' Lab Sample ID: 890-4386-3

Date Collected: 03/21/23 13:32 **Matrix: Solid** 

Date Received: 03/22/23 14:20

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	49688	03/28/23 09:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49839	03/29/23 03:09	SMC	EET MID

Client Sample ID: W-BH-04 5' Lab Sample ID: 890-4386-4

Date Collected: 03/21/23 13:50 Date Received: 03/22/23 14:20

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	49688	03/28/23 09:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49839	03/29/23 03:14	SMC	EET MID

Client Sample ID: E-BH-01 4' Lab Sample ID: 890-4386-5

Date Collected: 03/21/23 14:26 Date Received: 03/22/23 14:20

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	49688	03/28/23 09:02	KS	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	49839	03/29/23 03:19	SMC	EET MID

Client Sample ID: E-BH-02 4' Lab Sample ID: 890-4386-6 **Matrix: Solid** 

Date Collected: 03/21/23 14:26 Date Received: 03/22/23 14:20

_										
	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	49688	03/28/23 09:02	KS	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	49839	03/29/23 03:24	SMC	EET MID

Project/Site: Mobley Water Facility

Job ID: 890-4386-1

SDG: KH227027

Client Sample ID: E-BH-03 5'

Date Collected: 03/21/23 16:38 Date Received: 03/22/23 14:20

Lab Sample ID: 890-4386-7

Matrix: Solid

**Matrix: Solid** 

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	49688	03/28/23 09:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49839	03/29/23 03:38	SMC	EET MID

Client Sample ID: E-BH-04 5' Lab Sample ID: 890-4386-8 **Matrix: Solid** 

Date Collected: 03/22/23 10:48 Date Received: 03/22/23 14:20

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	49688	03/28/23 09:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49839	03/29/23 03:43	SMC	EET MID

Client Sample ID: E-BH-05 5' Lab Sample ID: 890-4386-9

Date Collected: 03/22/23 11:49

Date Received: 03/22/23 14:20

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	49688	03/28/23 09:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49839	03/29/23 03:58	SMC	EET MID

Client Sample ID: E-BH-06 4' Lab Sample ID: 890-4386-10

Date Collected: 03/22/23 12:25

Date Received: 03/22/23 14:20

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	49688	03/28/23 09:02	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49839	03/29/23 04:02	SMC	EET MID

Laboratory References:

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

## **Accreditation/Certification Summary**

Client: Terracon Consulting Eng & Scientists

Job ID: 890-4386-1 Project/Site: Mobley Water Facility SDG: KH227027

#### **Laboratory: Eurofins Midland**

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

## **Method Summary**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water Facility

Job ID: 890-4386-1

SDG: KH227027

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

#### Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

#### Laboratory References:

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

## **Sample Summary**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water Facility

Job ID: 890-4386-1 SDG: KH227027

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4386-1	W-BH-01 3'	Solid	03/21/23 11:42	03/22/23 14:20	3
890-4386-2	W-BH-02 3'	Solid	03/21/23 13:07	03/22/23 14:20	3
890-4386-3	W-BH-03 3'	Solid	03/21/23 13:32	03/22/23 14:20	3
890-4386-4	W-BH-04 5'	Solid	03/21/23 13:50	03/22/23 14:20	5
890-4386-5	E-BH-01 4'	Solid	03/21/23 14:26	03/22/23 14:20	4
890-4386-6	E-BH-02 4'	Solid	03/21/23 14:26	03/22/23 14:20	4
890-4386-7	E-BH-03 5'	Solid	03/21/23 16:38	03/22/23 14:20	5
890-4386-8	E-BH-04 5'	Solid	03/22/23 10:48	03/22/23 14:20	5
890-4386-9	E-BH-05 5'	Solid	03/22/23 11:49	03/22/23 14:20	5
890-4386-10	E-BH-06 4'	Solid	03/22/23 12:25	03/22/23 14:20	4

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eurofins Xenco **Environment Testing** 

# Chain of Custody

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Temp Blank: (Re) No   Merice: (Re) No   Merice	31   Soil   3-2 -23   1.107 pm   3   Grab   1   V	Date   Sampled   Sampled   Soil   3-2 -23   Soil   Soil
H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> H <sub>3</sub> PO <sub>4</sub> : H <sub>2</sub> H <sub>3</sub> PO <sub>4</sub> : HP NaHSO <sub>4</sub> : NABIS Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub> Zn Acetate+NaOH NaOH+Ascorbic Ac Sample Con Se Ag SiO <sub>2</sub> Na Sr Ti Sn U V Zn Hg: 1631/245.1/7470/7471	1:32 pm 3 Grab 1 V 1:32 pm 3 Grab 1 V 1:32 pm 3 Grab 1 V 1:50 pm 5 Grab 1 V 2:36 pm 4 Grab 1 V 2:36 pm 4 Grab 1 V 2:36 pm 4 Grab 1 V 4:38 pm 5 Grab 1 V 1:50 pm 5 Grab 1 V 2:36 pm 4 Grab 1 V 1:50 pm 5 Grab 1 V 2:36 pm 4 Grab 1 V 1:50 pm 5 Grab 1 V 1:38 pm 6 Gra	Date    Soil 3-21-23
H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> H <sub>3</sub> PO <sub>4</sub> : HP NaHSO <sub>4</sub> : NaBIS Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub> Zn Acetate+NaOH NaOH+Ascorbic Ac Sample Con Sign Sign Sign Sign Sign Sign Sign Sign	3 Grad 3 Grad 5 Grad 5 Grad 5 Grad 7 Grad 1	
H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> H <sub>3</sub> PO <sub>4</sub> : HP NaHSO <sub>4</sub> : NABIS Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub> Zn Acetate+NaOH NaOH+Ascorbic Ac Sample Con	3 Grab 1 3 Grab 1 4 Grab 1 5 Grab 1 5 Grab 1	Matrix  So; 1  So; 1  So; 1  So; 1  So; 1
H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> H <sub>3</sub> PO <sub>4</sub> : HP NaHSO <sub>4</sub> : NABIS Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub> Zn Acetate+NaOH NaOH+Ascorbic Ac Sample Con	3 Grab 1 3 Grab 1 5 Grab 1 5 Grab 1 5 Grab 1	Matrix Soil Soil Soil Soil Soil
H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> H <sub>3</sub> PO <sub>4</sub> : HP NaHSO <sub>4</sub> : NABIS Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub> Zn Acetate+NaOH NaOH+Ascorbic Ac Sample Con	3 Grab 1 3 Grab 1 4 Grab 1 4 Grab 1	Matrix Soil Soil Soil
H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> H <sub>3</sub> PO <sub>4</sub> : HP NaHSO <sub>4</sub> : NABIS Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub> Zn Acetate+NaOH NaOH+Ascorbic Ac Sample Con	3 Grab 1 3 Grab 1 5 Grab 1 5 Grab 1	Matrix  So:    So:    So:    So:
H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> H <sub>3</sub> PO <sub>4</sub> : HP NaHSO <sub>4</sub> : NABIS Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub> Zn Acetate+NaOH NaOH+Ascorbic Ac Sample Con	an 3 Grab 1  2m 3 Grab 1  2m 5 Grab 1	Matrix Soil Soil Soil
H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> H <sub>3</sub> PO <sub>4</sub> : HP NaHSO <sub>4</sub> : NABIS Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub> Zn Acetate+NaOH NaOH+Ascorbic Ac Sample Con	an 3 Grab 1 2m 3 Grab 1	Matrix $S_{6,1}$ $S_{6,1}$
H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> H <sub>3</sub> PO <sub>4</sub> : HP NaHSO <sub>4</sub> : NABIS Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub> Zn Acetate+NaOH NaOH+Ascorbic Ac Sample Con	on 3 Grab 1	Matrix S <sub>0</sub> ;1
H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> H <sub>3</sub> PO <sub>4</sub> : HP NaHSO <sub>4</sub> : NABIS Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub> Zn Acetate+NaOH NaOH+Ascorbic Ac Sample Con	an 3 Grab 1	Matrix So; i
H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> H <sub>3</sub> PO <sub>4</sub> : HP NaHSO <sub>4</sub> : NABIS Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub> Zn Acetate+NaOH NaOH+Ascorbic Ac Sample Con	comp com	Matrix
H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> H <sub>3</sub> PO <sub>4</sub> : HP NaHSO <sub>4</sub> : NABIS Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub> Zn Acetate+NaOH NaOH+Ascorbic Ac	Grab/ # of	
H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> H <sub>3</sub> PO <sub>4</sub> : HP NaHSO <sub>4</sub> : NABIS Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub> Zn Acetate+NaOH	5.2	Corrected Temperature:
w	1.2	Yes No N/A Temperature Reading:
	Pa	Yes No Y/A Correction Factor:
	TN7-Q	Ges No Thermometer ID:
	Wet Ice: Ves No neters	Temp Blank: (Res) No
	TAT starts the day received by the lab, if received by 4:30pm	Givs Sanchez
Cool: Cool MeOH: Me	Due Date:	
None: NO Di Water: H <sub>2</sub> O	Routine Rush Code	KH237027
ANALYSIS REQUEST Preservative Codes	Turn Around	Mobley Water facility
	Email: Gus. Sanchez @terracon. com	705
Reporting: Level II   Level III   PST/UST   TRRP   Level IV	City, State ZIP:	aristal, NM, 88220
	Address:	4518 W. Pierce Street
Water Midstream Program: UST/PST PRP Brownfields RRC Superfund	Company Name: Solari	ierra con

W-BH-04 W-BH-03

W-BH-02 W-8H-01

E-BH-03 E-BH-02

E-18H-01

SAMPLE RECEIPT

Sampler's Name:

ject Location:

roject Number: roject Name:

Cooler Custody Seals:

amples Received Intact:

Sample Custody Seals:

otal Containers:

Sample Identifica

Phone:

City, State ZIP: Address:

roject Manager:

Joseph Guesnier

Bill to: (if different)

ompany Name:

Work Order No:

www.xenco.com

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Work Order Comments

Revised Date: 08/25/2020 Rev. 2020.2

Circle Method(s) and Metal(s) to be analyzed

Total 200.7 / 6010

200.8 / 6020:

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co

TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U

Cu Fe Pb

Mg Mn Mo Ni K Se

Hg: 1631 / 245.1 / 7470 / 7471 Ag SiO<sub>2</sub> Na Sr Tl Sn U V Zn

eurofins 🔆 Xenco **Environment Te** 

Routine Rush	y Tur	Email	12 <i>0</i>	tree+					esting	
Rush Pres.	Turn Around	Gus. Sanche	City, State ZIP:	Address:	Company Name:	Bill to: (if different)	Hobbs, NM (	EL Paso, TX (	Houston, T) Midland, TX (4	
	ANALYSIS REQUEST	Email: Gus, Sanchez & terracon Travis, Casey 68 Deliverables: EDD			Solaris Water Midstram	Rob Kirk	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	Chain of Custody
None: NO DI Water: H <sub>2</sub> O	EST Preservative Codes	Deliverables: EDD ADaPT Other:	Reporting: Level II   Level III   PST/UST   TRRP   Level IV	State of Project:	Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	Work Order Comments	www.xenco.com Page of		Work Order No:	

		6		
		4		
		32333143	Harvis Co Skut	St &
Received by: (Signature) Date/Time	Relinquished by: (Signature) Rece	Date/Time	Received by: (Signature)	Relinquished by: (Signature)

SAMPLE RECEIPT

Temp Blank: Yes

Yes No

Wet Ice:

No

Chloride (EPA Method 450)

No

Thermometer ID:

Samples Received Intact:

Cooler Custody Seals:

Yes No N/A Yes

No

N/A

Temperature Reading Correction Factor

Corrected Temperature

sample Custody Seals:

Sample Identification

Matrix

Sampled

Date

Depth

Comp Grab/

Cont \* 0

3-22-25

84:01 Time Sampled

E-BH-04 E-BH-05

これが

3-22-23 11:49

12:25

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Project Number:

sampler's Name:

Sanchez

FUNDA

Due Date:

TAT starts the day received by the lab, if received by 4:30pm

HCL: HC H2SO4:H2

Cool: Cool

MeOH: Me HNO 3: HN NaOH: Na

Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>; NaSO<sub>3</sub>

NaHSO 4: NABIS H<sub>3</sub>PO<sub>4</sub>: HP

NaOH+Ascorbic Acid: SAPC Zn Acetate+NaOH: Zn

Sample Comments

roject Location:

Project Name:

Mobley

Water

City, State ZIP:

(806)

Address:

ompany Name: roject Manager:

Herracon 4518 W. carlsbac

Jose ph

Guesnier

Client: Terracon Consulting Eng & Scientists

Job Number: 890-4386-1

SDG Number: KH227027

Login Number: 4386 List Source: Eurofins Carlsbad

List Number: 1

Creator: Stutzman, Amanda

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.	N/A	Refer to Job Narrative for details.
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	

4

Client: Terracon Consulting Eng & Scientists

Sample containers have legible labels.

Containers are not broken or leaking.

Sample bottles are completely filled.

Sample Preservation Verified.

MS/MSDs

<6mm (1/4").

Sample collection date/times are provided.

There is sufficient vol. for all requested analyses, incl. any requested

Containers requiring zero headspace have no headspace or bubble is

Appropriate sample containers are used.

Job Number: 890-4386-1

SDG Number: KH227027

List Source: Eurofins Midland
List Number: 2
List Creation: 03/24/23 11:08 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	
s 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	

True

True

True

True

True

N/A

True

N/A

13

**Environment Testing** 

# **ANALYTICAL REPORT**

## PREPARED FOR

Attn: Joseph Guesnier Terracon Consulting Eng & Scientists 5847 50th St Lubbock, Texas 79424

Generated 4/25/2023 10:08:55 AM

## **JOB DESCRIPTION**

Mabley SDG NUMBER KH227027

## **JOB NUMBER**

890-4517-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



## **Eurofins Carlsbad**

## **Job Notes**

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

## **Authorization**

Generated 4/25/2023 10:08:55 AM

Authorized for release by Jessica Kramer, Project Manager Jessica.Kramer@et.eurofinsus.com (432)704-5440

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

## **Eurofins Carlsbad**

## **Compliance Statement**

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

#### Coliform MCLs

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

#### Warranties, Terms, and Conditions

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

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

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

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

H = field staff performs tests under NJ NELAP certification #PA093, PA NELAP certification # 46-05499

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

MRAMER

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

Laboratory Job ID: 890-4517-1 SDG: KH227027

# **Table of Contents**

Cover Page	1
Table of Contents	4
Definitions/Glossary	5
Case Narrative	6
Client Sample Results	8
Surrogate Summary	24
QC Sample Results	26
QC Association Summary	31
Lab Chronicle	36
Certification Summary	43
Method Summary	44
Sample Summary	45
Chain of Custody	46
Racaint Chacklists	48

#### **Definitions/Glossary**

Client: Terracon Consulting Eng & Scientists Job ID: 890-4517-1 Project/Site: Mabley SDG: KH227027

#### **Qualifiers**

**GC VOA** 

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

#### **GC Semi VOA**

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

Qualifier Description

#### HPLC/IC

Ouglifier

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

#### **Glossary**

DLC

EDL

LOD

LOQ

MCL MDA

MDC MDL

MI

Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	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

MPN

Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

Decision Level Concentration (Radiochemistry)

EPA recommended "Maximum Contaminant Level"

Minimum Detectable Activity (Radiochemistry) Minimum Detectable Concentration (Radiochemistry)

Estimated Detection Limit (Dioxin)

Limit of Detection (DoD/DOE)

Method Detection Limit

Minimum Level (Dioxin)

Limit of Quantitation (DoD/DOE)

NEG Negative / Absent POS Positive / Present Practical Quantitation Limit PQL

**PRES** Presumptive QC **Quality Control** 

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

**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: Mabley

Job ID: 890-4517-1 SDG: KH227027

Job ID: 890-4517-1

**Laboratory: Eurofins Carlsbad** 

Narrative

Job Narrative 890-4517-1

#### Receipt

The samples were received on 4/14/2023 12:13 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 7.8°C

#### Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS-05 (890-4517-1), FS-06 (890-4517-2), FS-07 (890-4517-3), FS-08 (890-4517-4), FS-09 (890-4517-5), FS-10 (890-4517-6), FS-11 (890-4517-7), FS-12 (890-4517-8), FS-13 (890-4517-9), FS-14 (890-4517-10), FS-15 (890-4517-11), N-SW-2 (890-4517-12), E-SW-2 (890-4517-13), E-SW-4 (890-4517-14), W-SW-2 (890-4517-15), W-SW-3 (890-4517-16), W-SW-4 (890-4517-17), W-SW-5 (890-4517-18), W-SW-6 (890-4517-19) and S-SW-1 (890-4517-20).

#### GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-51326 and analytical batch 880-51274 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-51274 recovered above the upper control limit for Benzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-51274 recovered above the upper control limit for Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS-05 (890-4517-1), FS-06 (890-4517-2), FS-09 (890-4517-5), FS-10 (890-4517-6), FS-11 (890-4517-7), FS-12 (890-4517-8), FS-13 (890-4517-9), FS-14 (890-4517-10), FS-15 (890-4517-11) and N-SW-2 (890-4517-12). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (LCS 880-51326/1-A) and (LCSD 880-51326/2-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-4517-A-1-G MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: FS-08 (890-4517-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: E-SW-2 (890-4517-13), E-SW-4 (890-4517-14), W-SW-2 (890-4517-15), W-SW-3 (890-4517-16), W-SW-4 (890-4517-17), W-SW-5 (890-4517-18), W-SW-6 (890-4517-19) and S-SW-1 (890-4517-20). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

#### GC Semi VOA

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: FS-07 (890-4517-3) and FS-09 (890-4517-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: The continuing calibration verification (CCV) associated with batch 880-51267 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-51267/20).

**Eurofins Carlsbad** 4/25/2023

#### **Case Narrative**

Client: Terracon Consulting Eng & Scientists

Job ID: 890-4517-1

Project/Site: Mabley

SDG: KH227027

Job ID: 890-4517-1 (Continued)

**Laboratory: Eurofins Carlsbad (Continued)** 

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 (MS) recoveries for preparation batch 880-51309 and analytical batch 880-51811 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. The associated samples are: FS-05 (890-4517-1), FS-06 (890-4517-2), FS-07 (890-4517-3), FS-08 (890-4517-4), FS-09 (890-4517-5), FS-10 (890-4517-6), FS-11 (890-4517-7), FS-12 (890-4517-8), FS-13 (890-4517-9), FS-14 (890-4517-10) and (890-4517-A-1-F MSD).

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

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Client: Terracon Consulting Eng & Scientists

**Client Sample ID: FS-05** 

Date Collected: 04/14/23 10:00

Date Received: 04/14/23 12:13

Project/Site: Mabley

SDG: KH227027

Job ID: 890-4517-1

Lab Sample ID: 890-4517-1

Matrix: Solid

Sample Depth: 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F2 F1	0.00199		mg/Kg		04/17/23 13:54	04/18/23 02:08	
Toluene	< 0.00199	U F2 F1	0.00199		mg/Kg		04/17/23 13:54	04/18/23 02:08	1
Ethylbenzene	< 0.00199	U F2 F1	0.00199		mg/Kg		04/17/23 13:54	04/18/23 02:08	,
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.00398		mg/Kg		04/17/23 13:54	04/18/23 02:08	1
o-Xylene	< 0.00199	U F2 F1	0.00199		mg/Kg		04/17/23 13:54	04/18/23 02:08	•
Xylenes, Total	<0.00398	U F2 F1	0.00398		mg/Kg		04/17/23 13:54	04/18/23 02:08	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130				04/17/23 13:54	04/18/23 02:08	1
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130				04/17/23 13:54	04/18/23 02:08	1
Method: TAL SOP Total BTEX - T	otal BTEX Cal	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398		0.00398		mg/Kg			04/18/23 12:52	1
Method: SW846 8015 NM - Diese Analyte	•	ics (DRO) ( Qualifier	GC) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	58.8		50.0		mg/Kg		<u> </u>	04/18/23 11:09	1
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (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		04/17/23 09:27	04/17/23 13:22	1
Diesel Range Organics (Over C10-C28)	58.8		50.0		mg/Kg		04/17/23 09:27	04/17/23 13:22	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/23 09:27	04/17/23 13:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	94		70 - 130				04/17/23 09:27	04/17/23 13:22	1
o-Terphenyl	95		70 - 130				04/17/23 09:27	04/17/23 13:22	1
Method: EPA 300.0 - Anions, Ion	•	•							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1470	F1	25.1		mg/Kg			04/24/23 18:49	5

Client Sample ID: FS-06 Lab Sample ID: 890-4517-2

Date Collected: 04/14/23 10:02

Date Received: 04/14/23 12:13

Sample Depth: 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 02:34	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 02:34	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 02:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/17/23 13:54	04/18/23 02:34	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 02:34	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/17/23 13:54	04/18/23 02:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	146	S1+	70 - 130				04/17/23 13:54	04/18/23 02:34	1

**Eurofins Carlsbad** 

Matrix: Solid

### **Client Sample Results**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mabley

Job ID: 890-4517-1 SDG: KH227027

Lab Sample ID: 890-4517-2

**Client Sample ID: FS-06** 

Date Collected: 04/14/23 10:02 Date Received: 04/14/23 12:13

Sample Depth: 5

Method: SW846 8021B	- Volatile Organic	Compounds	(GC)	(Continued)	

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	73	70 - 130	04/17/23 13:54	04/18/23 02:34	1

Method: TAL SOP	Total RTFY - Total	RTFY Calculation
MELITOU. TAL JOI	TOTAL DIEX - TOTAL	DIEA Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			04/18/23 12:52	1

Mathed CMO4C CO4E NM Discal Dance Occasion (DI	201	1001	
Method: SW846 8015 NM - Diesel Range Organics (DI	くしょいし	((36.)	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		ma/Ka			04/18/23 11:09	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/23 09:27	04/17/23 14:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/17/23 09:27	04/17/23 14:28	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/23 09:27	04/17/23 14:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105	70 - 130	04/17/23 09:27	04/17/23 14:28	1
o-Terphenyl	103	70 - 130	04/17/23 09:23	04/17/23 14:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9630		100		mg/Kg			04/24/23 19:03	20

Client Sample ID: FS-07 Lab Sample ID: 890-4517-3

Date Collected: 04/14/23 10:04 Date Received: 04/14/23 12:13

Sample Depth: 5

Method:	SW846	8021B -	- Volatile	Organic	Compounds	(GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:54	04/18/23 03:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:54	04/18/23 03:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:54	04/18/23 03:00	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/17/23 13:54	04/18/23 03:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:54	04/18/23 03:00	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/17/23 13:54	04/18/23 03:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				04/17/23 13:54	04/18/23 03:00	1
1,4-Difluorobenzene (Surr)	70		70 - 130				04/17/23 13:54	04/18/23 03:00	1

Method: TAI	SOP Total RTFY	- Total RTFY	Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399	mg/Ko	1		04/18/23 12:52	1

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			04/18/23 11:09	1

**Eurofins Carlsbad** 

Client: Terracon Consulting Eng & Scientists

Project/Site: Mabley

SDG: KH227027

Job ID: 890-4517-1

**Client Sample ID: FS-07** 

Date Collected: 04/14/23 10:04 Date Received: 04/14/23 12:13

Sample Depth: 5

Lab Sample ID: 890-4517-3

Matrix: Solid

04/24/23 19:07

Lab Sample ID: 890-4517-4

**Matrix: Solid** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		04/17/23 09:27	04/17/23 14:50	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		04/17/23 09:27	04/17/23 14:50	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/17/23 09:27	04/17/23 14:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130				04/17/23 09:27	04/17/23 14:50	1
o-Terphenyl -	79		70 - 130				04/17/23 09:27	04/17/23 14:50	1
- Method: EPA 300.0 - Anions, Ion	Chromatograp	hv - Solubl	e						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

99.6

mg/Kg

8740

**Client Sample ID: FS-08** 

Date Collected: 04/14/23 10:06 Date Received: 04/14/23 12:13

Sample Depth: 5

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/17/23 13:54	04/18/23 03:27	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/17/23 13:54	04/18/23 03:27	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/17/23 13:54	04/18/23 03:27	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/17/23 13:54	04/18/23 03:27	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/17/23 13:54	04/18/23 03:27	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/17/23 13:54	04/18/23 03:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				04/17/23 13:54	04/18/23 03:27	1
1,4-Difluorobenzene (Surr)	64	S1-	70 - 130				04/17/23 13:54	04/18/23 03:27	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg	<del></del>		04/18/23 12:52	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/18/23 11:09	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/17/23 09:27	04/17/23 15:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/17/23 09:27	04/17/23 15:12	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/17/23 09:27	04/17/23 15:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				04/17/23 09:27	04/17/23 15:12	1

Client: Terracon Consulting Eng & Scientists

Project/Site: Mabley

Job ID: 890-4517-1

SDG: KH227027

Matrix: Solid

Lab Sample ID: 890-4517-4

**Client Sample ID: FS-08** 

Date Collected: 04/14/23 10:06

Date Received: 04/14/23 12:13

Sample Depth: 5

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble	9						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3000		25.2		mg/Kg			04/24/23 19:12	5

**Client Sample ID: FS-09** Lab Sample ID: 890-4517-5 **Matrix: Solid** 

Date Collected: 04/14/23 10:08 Date Received: 04/14/23 12:13

Method: SW846 8021B - Volatile	<b>Organic Comp</b>	ounds (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00202	U	0.00202		mg/Kg		04/17/23 13:54	04/18/23 03:53	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/17/23 13:54	04/18/23 03:53	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/17/23 13:54	04/18/23 03:53	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/17/23 13:54	04/18/23 03:53	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/17/23 13:54	04/18/23 03:53	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/17/23 13:54	04/18/23 03:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130				04/17/23 13:54	04/18/23 03:53	1
1,4-Difluorobenzene (Surr)	81		70 - 130				04/17/23 13:54	04/18/23 03:53	1
Method: TAL SOP Total BTEX - T	Total BTFX Cald	culation							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			04/18/23 12:52	1
Analyte Total TPH		Qualifier U		MDL	mg/Kg	<u>D</u>	Prepared	Analyzed 04/18/23 11:09	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/18/23 11:09	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte		Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	
Gasoline Range Organics (GRO)-C6-C10	<b>Result</b> <50.0		<b>RL</b> 50.0	MDL	Unit mg/Kg	<u>D</u>	Prepared 04/17/23 09:27	Analyzed 04/17/23 15:34	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over		U		MDL		<u>D</u>			1
Gasoline Range Organics	<50.0	U	50.0	MDL	mg/Kg	<u>D</u>	04/17/23 09:27	04/17/23 15:34	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0 <50.0	U U	50.0	MDL	mg/Kg	<u>D</u>	04/17/23 09:27 04/17/23 09:27	04/17/23 15:34 04/17/23 15:34	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0 <50.0 <50.0 %Recovery	U U	50.0 50.0 50.0	MDL	mg/Kg	<u>D</u>	04/17/23 09:27 04/17/23 09:27 04/17/23 09:27	04/17/23 15:34 04/17/23 15:34 04/17/23 15:34	1 1 1 Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate	<50.0 <50.0 <50.0 < <b>%Recovery</b>	U U U <b>Qualifier</b>	50.0 50.0 50.0 <i>Limits</i>	MDL	mg/Kg	<u> </u>	04/17/23 09:27 04/17/23 09:27 04/17/23 09:27 <b>Prepared</b>	04/17/23 15:34 04/17/23 15:34 04/17/23 15:34 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	<50.0 <50.0 <50.0 <b>%Recovery</b> 52 62	U U Qualifier S1- S1-	50.0 50.0 50.0 <b>Limits</b> 70 - 130 70 - 130	MDL	mg/Kg	<u>D</u>	04/17/23 09:27 04/17/23 09:27 04/17/23 09:27 <b>Prepared</b> 04/17/23 09:27	04/17/23 15:34 04/17/23 15:34 04/17/23 15:34 Analyzed 04/17/23 15:34	Dil Face  1  1  1  Dil Face 1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	<50.0 <50.0 <50.0 <50.0  %Recovery 52 62  Chromatograp	U U Qualifier S1- S1-	50.0 50.0 50.0 <b>Limits</b> 70 - 130 70 - 130		mg/Kg	<u>D</u>	04/17/23 09:27 04/17/23 09:27 04/17/23 09:27 <b>Prepared</b> 04/17/23 09:27	04/17/23 15:34 04/17/23 15:34 04/17/23 15:34 Analyzed 04/17/23 15:34	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Job ID: 890-4517-1

SDG: KH227027

Matrix: Solid

# **Client Sample Results**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mabley

Lab Sample ID: 890-4517-6

**Client Sample ID: FS-10** Date Collected: 04/14/23 10:10

Date Received: 04/14/23 12:13

Sample Depth: 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 04:20	1
Toluene	< 0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 04:20	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 04:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/17/23 13:54	04/18/23 04:20	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 04:20	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/17/23 13:54	04/18/23 04:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130				04/17/23 13:54	04/18/23 04:20	1
1,4-Difluorobenzene (Surr)	78		70 - 130				04/17/23 13:54	04/18/23 04:20	1
- Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/18/23 12:52	1
Method: SW846 8015 NM - Diese Analyte		ics (DRO) ( Qualifier	GC)	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/18/23 11:09	1
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/17/23 09:27	04/17/23 15:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/17/23 09:27	04/17/23 15:56	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/17/23 09:27	04/17/23 15:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				04/17/23 09:27	04/17/23 15:56	1
o-Terphenyl	93		70 - 130				04/17/23 09:27	04/17/23 15:56	1
Method: EPA 300.0 - Anions, Ion	Chromatogran	hy - Solubl	<b>6</b>						

**Client Sample ID: FS-11** 

Date Collected: 04/14/23 10:12

Date Received: 04/14/23 12:13

Sample Depth: 5

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 04:46	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 04:46	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 04:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/17/23 13:54	04/18/23 04:46	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 04:46	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/17/23 13:54	04/18/23 04:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		S1+	70 - 130				04/17/23 13:54	04/18/23 04:46	

25.0

mg/Kg

1750

**Eurofins Carlsbad** 

04/24/23 19:30

Lab Sample ID: 890-4517-7

Client: Terracon Consulting Eng & Scientists

Project/Site: Mabley

Date Collected: 04/14/23 10:12

SDG: KH227027

**Client Sample ID: FS-11** Lab Sample ID: 890-4517-7

Matrix: Solid

Job ID: 890-4517-1

Date Received: 04/14/23 12:13 Sample Depth: 5

Method: SW846 8021B - V	/olatile Organic Compounds	(GC) (Continued)
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Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	75	70 - 130	04/17/23 13:54	04/18/23 04:46	1

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg	_		04/18/23 12:52	1

Method: SW846	Discol	Dange Organies	(DBO) (CC)
i weliiou. Swo46	ou io mivi - Diesei	Range Organics	(UKU) (UC)

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/18/23 11:09	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/23 09:27	04/17/23 16:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/17/23 09:27	04/17/23 16:18	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/23 09:27	04/17/23 16:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	71	70 - 130	04/17/23 09:27	04/17/23 16:18	1
o-Terphenyl	81	70 - 130	04/17/23 09:27	04/17/23 16:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	493		4.97		mg/Kg			04/24/23 19:35	1

**Client Sample ID: FS-12** Lab Sample ID: 890-4517-8

Date Collected: 04/14/23 10:14 Date Received: 04/14/23 12:13

Sample Depth: 5

Method:	SW846	8021B -	- Volatile	Organic	Compounds	(GC)

Welliou. Syvo46 6021B - Volat	wethou. Swo46 ouz 16 - volatile Organic Compounds (GC)											
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac			
Benzene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:54	04/18/23 05:13	1			
Toluene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:54	04/18/23 05:13	1			
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:54	04/18/23 05:13	1			
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/17/23 13:54	04/18/23 05:13	1			
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:54	04/18/23 05:13	1			
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/17/23 13:54	04/18/23 05:13	1			
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	155	S1+	70 - 130				04/17/23 13:54	04/18/23 05:13	1			
1.4-Difluorobenzene (Surr)	75		70 - 130				04/17/23 13:54	04/18/23 05:13	1			

Mothod: TAI	SOP Total RTFY	- Total RTFY	Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399	ma/K	a		04/18/23 12:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC
---

Analyte	Result	Qualifier	, RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			04/18/23 11:09	1

**Eurofins Carlsbad** 

Client: Terracon Consulting Eng & Scientists

Job ID: 890-4517-1 SDG: KH227027

Project/Site: Mabley

Lab Sample ID: 890-4517-8

Date Collected: 04/14/23 10:14 Date Received: 04/14/23 12:13

**Client Sample ID: FS-12** 

Matrix: Solid

Sample Depth: 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/17/23 09:27	04/17/23 16:40	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/17/23 09:27	04/17/23 16:40	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/17/23 09:27	04/17/23 16:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130				04/17/23 09:27	04/17/23 16:40	1
o-Terphenyl	94		70 - 130				04/17/23 09:27	04/17/23 16:40	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
• • •									

**Client Sample ID: FS-13** Lab Sample ID: 890-4517-9

Date Collected: 04/14/23 10:16 Matrix: Solid

Date Received: 04/14/23 12:13

Sample Depth: 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 05:39	1
Toluene	< 0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 05:39	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 05:39	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/17/23 13:54	04/18/23 05:39	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 05:39	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/17/23 13:54	04/18/23 05:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	164	S1+	70 - 130				04/17/23 13:54	04/18/23 05:39	1
1,4-Difluorobenzene (Surr)	78		70 - 130				04/17/23 13:54	04/18/23 05:39	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/18/23 12:52	
Total DT LX	0.0000	O	0.00000					0 17 10720 12:02	-
• -								0 1/ 10/20 12:02	
: Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (	GC)	MDI		n	Prepared		Dil Fac
Method: SW846 8015 NM - Diese Analyte	I Range Organ Result	ics (DRO) (	GC)	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
: Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (	GC)	MDL		<u>D</u>	Prepared		
Method: SW846 8015 NM - Diese Analyte	Result <49.9	ics (DRO) (Gualifier	RL 49.9	MDL	Unit	<u>D</u>	Prepared	Analyzed	
Method: SW846 8015 NM - Diese Analyte Total TPH	I Range Organ Result <a href="#">&lt;49.9</a> sel Range Organ	ics (DRO) (Gualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed	
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	I Range Organ Result <a href="#">&lt;49.9</a> sel Range Organ	Qualifier Unics (DRO) Qualifier	RL 49.9 (GC)		Unit mg/Kg		<u> </u>	Analyzed 04/18/23 11:09	1
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	I Range Organ Result <a href="#">49.9</a> sel Range Orga Result	ics (DRO) ( Qualifier U  nics (DRO) Qualifier U	GC)  RL  49.9  (GC)  RL		Unit mg/Kg		Prepared	Analyzed 04/18/23 11:09 Analyzed	1 Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10	I Range Organ Result 49.9 sel Range Orga Result <49.9	ics (DRO) ( Qualifier U  nics (DRO) Qualifier U	(GC)  RL 49.9  (GC)  RL 49.9		Unit mg/Kg  Unit mg/Kg		Prepared 04/17/23 09:27	Analyzed 04/18/23 11:09  Analyzed 04/17/23 17:01	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	I Range Organ Result 49.9 sel Range Orga Result <49.9	ics (DRO) ( Qualifier U  nics (DRO) Qualifier U	(GC)  RL 49.9  (GC)  RL 49.9		Unit mg/Kg  Unit mg/Kg		Prepared 04/17/23 09:27	Analyzed 04/18/23 11:09  Analyzed 04/17/23 17:01	1 Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	I Range Organ Result 49.9 sel Range Orga Result 49.9 <49.9	ics (DRO) ( Qualifier U  nics (DRO) Qualifier U  U	GC)  RL 49.9  (GC)  RL 49.9  49.9		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 04/17/23 09:27 04/17/23 09:27	Analyzed 04/18/23 11:09  Analyzed 04/17/23 17:01 04/17/23 17:01	1 Dil Fac 1 1
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	I Range Organ Result 49.9 sel Range Orga Result 49.9 49.9	ics (DRO) ( Qualifier U  nics (DRO) Qualifier U  U	GC)  RL 49.9  (GC)  RL 49.9  49.9  49.9		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 04/17/23 09:27 04/17/23 09:27	Analyzed 04/18/23 11:09  Analyzed 04/17/23 17:01 04/17/23 17:01	1 Dil Fac 1

Client: Terracon Consulting Eng & Scientists

Project/Site: Mabley

Job ID: 890-4517-1

SDG: KH227027

**Client Sample ID: FS-13** 

Date Collected: 04/14/23 10:16 Date Received: 04/14/23 12:13 Lab Sample ID: 890-4517-9 Matrix: Solid

Sample Depth: 5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	544		5.01		mg/Kg			04/24/23 19:44	1	

Lab Sample ID: 890-4517-10 **Client Sample ID: FS-14** 

Date Collected: 04/14/23 10:18 Date Received: 04/14/23 12:13 Matrix: Solid

Sample Depth: 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 06:06	1
Toluene	< 0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 06:06	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 06:06	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/17/23 13:54	04/18/23 06:06	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 06:06	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/17/23 13:54	04/18/23 06:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	169	S1+	70 - 130				04/17/23 13:54	04/18/23 06:06	1
1,4-Difluorobenzene (Surr)	80		70 - 130				04/17/23 13:54	04/18/23 06:06	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/18/23 12:52	1
	•		•						
Method: SW846 8015 NM - Diese Analyte	Result	Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed	
	•	Qualifier	•	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 04/18/23 11:09	
Analyte Total TPH		Qualifier U	RL 49.9	MDL		<u>D</u>	Prepared		Dil Fac
Analyte	Result <49.9 sel Range Orga	Qualifier U	RL 49.9			<u>D</u>	Prepared Prepared		1
Analyte Total TPH  Method: SW846 8015B NM - Dies	Result <49.9 sel Range Orga	Qualifier Unics (DRO) Qualifier	RL 49.9		mg/Kg			04/18/23 11:09	1 Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9  sel Range Orga Result	Qualifier U  nics (DRO) Qualifier U	RL 49.9 (GC)		mg/Kg		Prepared	04/18/23 11:09  Analyzed	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <49.9  sel Range Orga Result <49.9	Qualifier U  nics (DRO) Qualifier U	(GC) RL 49.9		mg/Kg  Unit mg/Kg		Prepared 04/17/23 09:27	04/18/23 11:09  Analyzed 04/17/23 17:22	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result   <49.9	Qualifier U  nics (DRO) Qualifier U  U	RL 49.9  (GC)  RL 49.9  49.9		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 04/17/23 09:27 04/17/23 09:27	04/18/23 11:09  Analyzed 04/17/23 17:22 04/17/23 17:22	1 Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U  nics (DRO) Qualifier U  U	RL 49.9  (GC) RL 49.9  49.9  49.9		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 04/17/23 09:27 04/17/23 09:27	04/18/23 11:09  Analyzed 04/17/23 17:22 04/17/23 17:22	Dil Face 1 1 1 Dil Face
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate	Result   <49.9	Qualifier U  nics (DRO) Qualifier U  U	RL 49.9  (GC)  RL 49.9  49.9  49.9  Limits		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 04/17/23 09:27 04/17/23 09:27 04/17/23 09:27 Prepared	04/18/23 11:09  Analyzed 04/17/23 17:22 04/17/23 17:22 04/17/23 17:22  Analyzed	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	Result   <49.9	Qualifier U  nics (DRO) Qualifier U  U  Qualifier	RL 49.9  (GC)  RL 49.9  49.9  49.9  Limits  70 - 130  70 - 130		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 04/17/23 09:27 04/17/23 09:27 04/17/23 09:27  Prepared 04/17/23 09:27	04/18/23 11:09  Analyzed 04/17/23 17:22  04/17/23 17:22  Analyzed 04/17/23 17:22	
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	Result   <49.9	Qualifier U  nics (DRO) Qualifier U  U  Qualifier	RL 49.9  (GC)  RL 49.9  49.9  49.9  Limits  70 - 130  70 - 130	MDL	mg/Kg  Unit mg/Kg  mg/Kg		Prepared 04/17/23 09:27 04/17/23 09:27 04/17/23 09:27  Prepared 04/17/23 09:27	04/18/23 11:09  Analyzed 04/17/23 17:22  04/17/23 17:22  Analyzed 04/17/23 17:22	Dil Fac

Job ID: 890-4517-1

SDG: KH227027

Matrix: Solid

# **Client Sample Results**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mabley

Lab Sample ID: 890-4517-11

**Client Sample ID: FS-15** 

Date Collected: 04/14/23 10:20

Date Received: 04/14/23 12:13

Sample Depth: 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:54	04/18/23 07:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:54	04/18/23 07:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:54	04/18/23 07:55	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/17/23 13:54	04/18/23 07:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:54	04/18/23 07:55	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/17/23 13:54	04/18/23 07:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130				04/17/23 13:54	04/18/23 07:55	1
1,4-Difluorobenzene (Surr)	75		70 - 130				04/17/23 13:54	04/18/23 07:55	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese	•		GC)						
		A	ъ.	ME	1114	_	D	A	D:: F
		Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	
	<b>Result</b> <50.0		RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 04/18/23 11:09	
Total TPH	<50.0	U	50.0	MDL		<u>D</u>	Prepared		
Total TPH  Method: SW846 8015B NM - Dies	<50.0	U	50.0	MDL	mg/Kg	<u>D</u> 	Prepared Prepared		1
Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	<50.0	nics (DRO) Qualifier	50.0 (GC)		mg/Kg		<u> </u>	04/18/23 11:09	1 Dil Fac
Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<50.0 sel Range Orga Result	Unics (DRO) Qualifier	50.0 (GC)		mg/Kg		Prepared	04/18/23 11:09  Analyzed	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)	<50.0 sel Range Orga Result <50.0	Unics (DRO) Qualifier U	50.0 (GC) RL 50.0		mg/Kg  Unit mg/Kg		Prepared 04/17/23 09:27	04/18/23 11:09  Analyzed 04/17/23 18:32	Dil Fac
Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0  sel Range Orga Result <50.0 <50.0	Unics (DRO) Qualifier U	50.0 (GC)  RL  50.0  50.0		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 04/17/23 09:27 04/17/23 09:27	04/18/23 11:09  Analyzed 04/17/23 18:32 04/17/23 18:32	1 Dil Fac
Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0  sel Range Orga Result <50.0 <50.0 <50.0	Unics (DRO) Qualifier U	50.0 (GC)  RL  50.0  50.0  50.0		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 04/17/23 09:27 04/17/23 09:27	04/18/23 11:09  Analyzed 04/17/23 18:32 04/17/23 18:32	Dil Face 1 1 1 Dil Face
Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate	<50.0 sel Range Orga Result <50.0 <50.0 <50.0 %Recovery	Unics (DRO) Qualifier U	50.0  (GC)  RL  50.0  50.0  50.0  Limits		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 04/17/23 09:27 04/17/23 09:27 04/17/23 09:27 Prepared	04/18/23 11:09  Analyzed 04/17/23 18:32 04/17/23 18:32 04/17/23 18:32  Analyzed	Dil Fac
Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	<50.0 sel Range Orga Result <50.0 <50.0 <50.0 %Recovery 112 121	U nics (DRO) Qualifier U U Qualifier	50.0  (GC)  RL  50.0  50.0  50.0  Limits  70 - 130  70 - 130		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 04/17/23 09:27 04/17/23 09:27 04/17/23 09:27  Prepared 04/17/23 09:27	04/18/23 11:09  Analyzed 04/17/23 18:32 04/17/23 18:32  Analyzed 04/17/23 18:32	Dil Fac
Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	<50.0 sel Range Orga Result <50.0 <50.0 <50.0 <50.0 *Recovery 112 121 121 Chromatograp	U nics (DRO) Qualifier U U Qualifier	50.0  (GC)  RL  50.0  50.0  50.0  Limits  70 - 130  70 - 130		mg/Kg  Unit mg/Kg mg/Kg mg/Kg		Prepared 04/17/23 09:27 04/17/23 09:27 04/17/23 09:27  Prepared 04/17/23 09:27	04/18/23 11:09  Analyzed 04/17/23 18:32 04/17/23 18:32  Analyzed 04/17/23 18:32	

**Client Sample ID: N-SW-2** 

Date Collected: 04/14/23 10:22

Date Received: 04/14/23 12:13

Sample Depth: 0 - 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/17/23 13:54	04/18/23 08:23	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/17/23 13:54	04/18/23 08:23	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/17/23 13:54	04/18/23 08:23	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/17/23 13:54	04/18/23 08:23	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/17/23 13:54	04/18/23 08:23	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/17/23 13:54	04/18/23 08:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130				04/17/23 13:54	04/18/23 08:23	

Lab Sample ID: 890-4517-12

**Eurofins Carlsbad** 

Client: Terracon Consulting Eng & Scientists

Project/Site: Mabley

SDG: KH227027

Job ID: 890-4517-1

Client Sample ID: N-SW-2

Date Collected: 04/14/23 10:22 Date Received: 04/14/23 12:13

Sample Depth: 0 - 5

Lab Sample ID: 890-4517-12

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

%Recovery Qualifier Limits Prepared Surrogate Analyzed Dil Fac 04/17/23 13:54 1,4-Difluorobenzene (Surr) 70 - 130 04/18/23 08:23

**Method: TAL SOP Total BTEX - Total BTEX Calculation** 

Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared Total BTEX <0.00402 0.00402 04/18/23 12:52 mg/Kg

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) RL MDL Unit D Prepared Analyzed Dil Fac **Total TPH** 49.9 04/18/23 11:09 209 mg/Kg

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

**MDL** Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac <49.9 U mg/Kg 04/17/23 09:27 Gasoline Range Organics 49.9 04/17/23 18:53 (GRO)-C6-C10 49.9 04/17/23 09:27 04/17/23 18:53 **Diesel Range Organics (Over** 124 mg/Kg C10-C28) **Oll Range Organics (Over** 84.5 49.9 mg/Kg 04/17/23 09:27 04/17/23 18:53

C28-C36)

Qualifier Limits Prepared Dil Fac Surrogate %Recovery Analyzed 1-Chlorooctane 91 70 - 130 04/17/23 09:27 04/17/23 18:53 o-Terphenyl 100 70 - 130 04/17/23 09:27 04/17/23 18:53

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 5.05 mg/Kg 04/24/23 20:07

Chloride 453

Client Sample ID: E-SW-2 Lab Sample ID: 890-4517-13

Date Collected: 04/14/23 10:24

Date Received: 04/14/23 12:13

Sample Depth: 0 - 5

Method: SW846 8021B - Volatile Organic Compounds (GC)

MDL Unit Analyte Result Qualifier RL Prepared Analyzed Dil Fac Benzene < 0.00200 0.00200 04/17/23 13:54 04/18/23 08:58 ma/Ka Toluene <0.00200 U 0.00200 mg/Kg 04/17/23 13:54 04/18/23 08:58 Ethylbenzene <0.00200 U 0.00200 04/17/23 13:54 04/18/23 08:58 mg/Kg m-Xylene & p-Xylene <0.00401 U 0.00401 mg/Kg 04/17/23 13:54 04/18/23 08:58 o-Xvlene <0.00200 U 0.00200 mg/Kg 04/17/23 13:54 04/18/23 08:58 <0.00401 U 0.00401 04/17/23 13:54 04/18/23 08:58 Xylenes, Total mg/Kg

Qualifier Limits Dil Fac Surrogate %Recovery Prepared Analyzed 4-Bromofluorobenzene (Surr) 154 S1+ 70 - 130 04/17/23 13:54 04/18/23 08:58 75 1,4-Difluorobenzene (Surr) 70 - 130 04/17/23 13:54 04/18/23 08:58

**Method: TAL SOP Total BTEX - Total BTEX Calculation** 

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Total BTEX <0.00401 U 0.00401 04/18/23 12:52 mg/Kg

**Eurofins Carlsbad** 

Client: Terracon Consulting Eng & Scientists

Project/Site: Mabley

ah Camaria ID: 000 4547 42

Client Sample ID: E-SW-2

Lab Sample ID: 890-4517-13

Date Collected: 04/14/23 10:24 Date Received: 04/14/23 12:13 Matrix: Solid

Job ID: 890-4517-1

SDG: KH227027

Sample Depth: 0 - 5

C10-C28)

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.0	U	50.0		mg/Kg			04/18/23 11:09	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit Dil Fac Prepared Analyzed <50.0 U 50.0 04/17/23 09:27 04/17/23 19:15 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 04/17/23 09:27 04/17/23 19:15

Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 04/17/23 09:27 04/17/23 19:15 %Recovery Qualifier Limits Prepared Dil Fac Surrogate Analyzed 1-Chlorooctane 109 70 - 130 04/17/23 09:27 04/17/23 19:15 o-Terphenyl 122 70 - 130 04/17/23 09:27 04/17/23 19:15

Method: EPA 300.0 - Anions, Ion Chromatography - SolubleAnalyteResultQualifierRLMDLUnitDPreparedAnalyzedDil FacChloride30500251mg/Kg04/24/23 20:1150

Client Sample ID: E-SW-4 Lab Sample ID: 890-4517-14

Date Collected: 04/14/23 10:26 Matrix: Solid

Date Received: 04/14/23 12:13

Sample Depth: 0 - 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 09:24	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 09:24	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 09:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/17/23 13:54	04/18/23 09:24	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 09:24	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/17/23 13:54	04/18/23 09:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	152	S1+	70 - 130				04/17/23 13:54	04/18/23 09:24	1
1,4-Difluorobenzene (Surr)	74		70 - 130				04/17/23 13:54	04/18/23 09:24	1

Method: TAL SOP Total BTEX - Total BTEX Calculation										
	Analyte	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
	Total BTEX	<0.00398	U	0.00398		mg/Kg			04/18/23 12:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)								
	Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
	Total TPH	<50.0 II	50.0	ma/Ka			04/18/23 11:09	

Method: SW846 8015B NM - Diese	l Range Orga	nics (DRO) (	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		04/17/23 09:27	04/17/23 19:36	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		04/17/23 09:27	04/17/23 19:36	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/23 09:27	04/17/23 19:36	1

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Client: Terracon Consulting Eng & Scientists

Job ID: 890-4517-1 SDG: KH227027

Project/Site: Mabley

Lab Sample ID: 890-4517-14

Client Sample ID: E-SW-4 Date Collected: 04/14/23 10:26 Date Received: 04/14/23 12:13

**Matrix: Solid** 

Sample Depth: 0 - 5

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	84	70 - 130	04/17/23 09:27	04/17/23 19:36	1
o-Terphenyl	94	70 - 130	04/17/23 09:27	04/17/23 19:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride 74.9 4.98 04/24/23 20:25 mg/Kg

Client Sample ID: W-SW-2 Lab Sample ID: 890-4517-15 Date Collected: 04/14/23 10:28

Date Received: 04/14/23 12:13

Matrix: Solid

Sample Depth: 0 - 5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 09:50	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 09:50	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 09:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/17/23 13:54	04/18/23 09:50	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 09:50	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/17/23 13:54	04/18/23 09:50	1

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 133 S1+ 70 - 130 04/17/23 13:54 04/18/23 09:50 1,4-Difluorobenzene (Surr) 73 04/17/23 13:54 70 - 130 04/18/23 09:50

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier MDL Unit Prepared Analyzed Dil Fac Total BTEX <0.00398 U 0.00398 mg/Kg 04/18/23 12:52

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prep	pared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg				04/18/23 11:09	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		04/17/23 09:27	04/17/23 19:58	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		04/17/23 09:27	04/17/23 19:58	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/17/23 09:27	04/17/23 19:58	1

Surrogate	'e	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorod	octane	102		70 - 130	04/17/23 09:27	04/17/23 19:58	1
o-Terphei	nyl	112		70 - 130	04/17/23 09:27	04/17/23 19:58	1

Г					
Method: EPA 300.0 -	Anions, Ion Chromatography - Soluble				
Δnalvte	Result Qualifier	RI	MDI Unit	D	Prenare

Analyte	Result Quali	lifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	832	4.97	mg/Kg			04/24/23 20:29	1

Client: Terracon Consulting Eng & Scientists

Project/Site: Mabley

**Client Sample ID: W-SW-3** Date Collected: 04/14/23 10:30 Date Received: 04/14/23 12:13

Sample Depth: 0 - 5

Job ID: 890-4517-1 SDG: KH227027

Lab Sample ID: 890-4517-16

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:54	04/18/23 10:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:54	04/18/23 10:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:54	04/18/23 10:17	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/17/23 13:54	04/18/23 10:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:54	04/18/23 10:17	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/17/23 13:54	04/18/23 10:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	155	S1+	70 - 130				04/17/23 13:54	04/18/23 10:17	1
1,4-Difluorobenzene (Surr)	74		70 - 130				04/17/23 13:54	04/18/23 10:17	1
- Method: TAL SOP Total BTEX	- Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	П	0.00399		mg/Kg			04/18/23 12:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier MDL Unit Analyzed Dil Fac RLPrepared Total TPH <49.8 U 49.8 mg/Kg 04/18/23 11:09

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/17/23 09:27	04/17/23 20:20	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/17/23 09:27	04/17/23 20:20	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/17/23 09:27	04/17/23 20:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				04/17/23 09:27	04/17/23 20:20	1

Method: EPA 300.0 - Anions, Ion C	hromatography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1150	4.99	ma/Ka			04/24/23 20:34	

70 - 130

107

Lab Sample ID: 890-4517-17 Client Sample ID: W-SW-4

Date Collected: 04/14/23 10:32 Date Received: 04/14/23 12:13

Sample Depth: 0 - 5

o-Terphenyl

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/17/23 13:54	04/18/23 10:43	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/17/23 13:54	04/18/23 10:43	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/17/23 13:54	04/18/23 10:43	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/17/23 13:54	04/18/23 10:43	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/17/23 13:54	04/18/23 10:43	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/17/23 13:54	04/18/23 10:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	152	S1+	70 - 130				04/17/23 13:54	04/18/23 10:43	1

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**Matrix: Solid** 

04/17/23 09:27

04/17/23 20:20

Client: Terracon Consulting Eng & Scientists

Project/Site: Mabley

SDG: KH227027

Job ID: 890-4517-1

Client Sample ID: W-SW-4 Date Collected: 04/14/23 10:32 Date Received: 04/14/23 12:13

Lab Sample ID: 890-4517-17 Matrix: Solid

Sample Depth: 0 - 5

Method: SW846 8021B - Volatile Organic Co	Compounds (GC) (Continued)
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Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1 4-Difluorobenzene (Surr)	91	70 - 130	04/17/23 13:54	04/18/23 10:43	1

Method: TAI	SOP Total BTEX	- Total BTFX	Calculation
Mictilou. IAL	- OOI TOTAL DIEA	- IOIGI DIEA	Oulculation

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402 U	0.00402	ma/Ka			04/18/23 12:52	1

Method: SW846 8015 NM - Diesel Range Organics (I	DRO) (	GCI	ı
incured. Offore out of the Picaci Range Organica (i		,	١.

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		ma/Ka			04/18/23 11:09	1

Method: SW846 8015B	NM - Diesel Rand	ge Organics	(DRO)	(GC)
Michiga. Offord out ob	INN - Dieser Rang	ge Organics	(DIXO)	(00)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/17/23 09:27	04/17/23 20:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/17/23 09:27	04/17/23 20:41	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/17/23 09:27	04/17/23 20:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97	70 - 130	04/17/23 09:27	04/17/23 20:41	1
o-Terphenyl	107	70 - 130	04/17/23 09:27	04/17/23 20:41	1

#### Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte		alifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5450	25.3	mg/Kg			04/24/23 20:38	5

Client Sample ID: W-SW-5 Lab Sample ID: 890-4517-18 **Matrix: Solid** 

Date Collected: 04/14/23 10:34 Date Received: 04/14/23 12:13

Sample Depth: 0 - 5

Method: SW846 8021B - Vola	itile Organic Compounds (GC)
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Method. Syvoto 002 ID - Volat	ethod. 044040 0021B - Volatile Organic Compounds (CO)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Benzene	<0.00202	U	0.00202		mg/Kg		04/17/23 13:54	04/18/23 11:09	1		
Toluene	<0.00202	U	0.00202		mg/Kg		04/17/23 13:54	04/18/23 11:09	1		
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/17/23 13:54	04/18/23 11:09	1		
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		04/17/23 13:54	04/18/23 11:09	1		
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/17/23 13:54	04/18/23 11:09	1		
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		04/17/23 13:54	04/18/23 11:09	1		
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	169	S1+	70 - 130				04/17/23 13:54	04/18/23 11:09	1		
1 4-Diffuorobenzene (Surr)	78		70 130				04/17/23 13:54	04/18/23 11:00	1		

Mothod: TAI	SOP Total RTFY	- Total RTFY	Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00403	U	0.00403	ma/Ka			04/18/23 12:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC	Method:	: SW846 8015 N	M - Diesel R	ange Ord	ianics (	DRO)	(GC
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Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg		_	04/18/23 11:09	1

Client: Terracon Consulting Eng & Scientists

SDG: KH227027

Project/Site: Mabley

Lab Sample ID: 890-4517-18

Client Sample ID: W-SW-5 Date Collected: 04/14/23 10:34 Date Received: 04/14/23 12:13

Matrix: Solid

Job ID: 890-4517-1

Sample Depth: 0 - 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/17/23 09:27	04/17/23 21:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/17/23 09:27	04/17/23 21:03	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/17/23 09:27	04/17/23 21:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				04/17/23 09:27	04/17/23 21:03	1
o-Terphenyl	102		70 - 130				04/17/23 09:27	04/17/23 21:03	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	le						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
•									

Client Sample ID: W-SW-6 Lab Sample ID: 890-4517-19

Date Collected: 04/14/23 10:36 Date Received: 04/14/23 12:13 **Matrix: Solid** 

Sample Depth: 0 - 5

Method: SW846 8021R - Volatile Organic Compounds (GC)

Method: SW846 8021B - Volatile	•	` '							
Analyte		Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fac
Benzene	<0.00199		0.00199		mg/Kg		04/17/23 13:54	04/18/23 11:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 11:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 11:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/17/23 13:54	04/18/23 11:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/17/23 13:54	04/18/23 11:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/17/23 13:54	04/18/23 11:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	168	S1+	70 - 130				04/17/23 13:54	04/18/23 11:35	1
1,4-Difluorobenzene (Surr)	74		70 - 130				04/17/23 13:54	04/18/23 11:35	1
Method: TAL SOP Total BTEX - 1	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/18/23 12:52	1
Method: SW846 8015 NM - Diese	l Pange Organ	ice (DBO) (	GC)						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/18/23 11:09	1
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/23 09:27	04/17/23 21:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/17/23 09:27	04/17/23 21:24	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/23 09:27	04/17/23 21:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				04/17/23 09:27	04/17/23 21:24	1

Client: Terracon Consulting Eng & Scientists

Project/Site: Mabley

Lab Sample ID: 890-4517-19

Job ID: 890-4517-1

SDG: KH227027

**Matrix: Solid** 

Client Sample ID: W-SW-6

Date Collected: 04/14/23 10:36

Date Received: 04/14/23 12:13

Sample Depth: 0 - 5

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Soluble	9						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2350		24.8		mg/Kg			04/24/23 20:48	5

Client Sample ID: S-SW-1 Lab Sample ID: 890-4517-20 **Matrix: Solid** 

Date Collected: 04/14/23 10:38 Date Received: 04/14/23 12:13

Sample Depth: 0 - 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/17/23 13:54	04/18/23 12:01	
Toluene	<0.00198	U	0.00198		mg/Kg		04/17/23 13:54	04/18/23 12:01	
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/17/23 13:54	04/18/23 12:01	
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/17/23 13:54	04/18/23 12:01	
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/17/23 13:54	04/18/23 12:01	•
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/17/23 13:54	04/18/23 12:01	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	151	S1+	70 - 130				04/17/23 13:54	04/18/23 12:01	
1,4-Difluorobenzene (Surr)	81		70 - 130				04/17/23 13:54	04/18/23 12:01	
Method: TAL SOP Total BTEX - T	Total BTEX Cald	culation							
						_			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Analyte Total BTEX	<0.00396	U	0.00396	MDL	mg/Kg	<u>D</u>	Prepared	04/18/23 12:52	Dil Fac
	<0.00396	U	0.00396			D	Prepared Prepared		,
Total BTEX Method: SW846 8015 NM - Diese	<0.00396	ics (DRO) (Qualifier	0.00396 GC)		mg/Kg			04/18/23 12:52	Dil Fac
Total BTEX  Method: SW846 8015 NM - Diese Analyte  Total TPH	<0.00396  Range Organ Result <49.9	Uics (DRO) (Gualifier	0.00396  GC)  RL  49.9		mg/Kg			04/18/23 12:52  Analyzed	Dil Fac
Total BTEX  Method: SW846 8015 NM - Diese Analyte	<0.00396  Pl Range Organ Result <a href="#">&lt;49.9</a> Sel Range Organ	Uics (DRO) (Gualifier	0.00396  GC)  RL  49.9	MDL	mg/Kg			04/18/23 12:52  Analyzed	Dil Fac
Total BTEX  Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	<0.00396  Pl Range Organ Result <a href="#">&lt;49.9</a> Sel Range Organ	ics (DRO) (Qualifier Unics (DRO) Qualifier	0.00396  GC)  RL 49.9	MDL	mg/Kg  Unit mg/Kg	<u>D</u>	Prepared	04/18/23 12:52  Analyzed  04/18/23 11:09	Dil Fac
Total BTEX  Method: SW846 8015 NM - Diese Analyte  Total TPH  Method: SW846 8015B NM - Diese Analyte  Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<0.00396  Pl Range Organ Result <a href="#">&lt;49.9</a> Sel Range Orga Result	ics (DRO) (Qualifier U nics (DRO) Qualifier U U	0.00396  GC)  RL 49.9  (GC) RL	MDL	mg/Kg  Unit mg/Kg  Unit	<u>D</u>	Prepared Prepared	04/18/23 12:52  Analyzed  04/18/23 11:09  Analyzed	Dil Fa
Total BTEX  Method: SW846 8015 NM - Diese Analyte  Total TPH  Method: SW846 8015B NM - Diese Analyte  Gasoline Range Organics (GRO)-C6-C10	<0.00396  Pl Range Organ Result <p>49.9 Sel Range Orga Result 49.9</p>	ics (DRO) (Qualifier U nics (DRO) Qualifier U U U U U	0.00396  RL 49.9  (GC) RL 49.9	MDL	mg/Kg  Unit mg/Kg  Unit mg/Kg	<u>D</u>	Prepared  Prepared  04/17/23 09:27	04/18/23 12:52  Analyzed 04/18/23 11:09  Analyzed 04/17/23 21:45	Dil Fa
Total BTEX  Method: SW846 8015 NM - Diese Analyte  Total TPH  Method: SW846 8015B NM - Diese Analyte  Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<0.00396  Pl Range Organ Result <p>49.9 Sel Range Orga Result 49.9 449.9</p>	ics (DRO) (Qualifier U nics (DRO) Qualifier U U U U	0.00396  RL 49.9  (GC) RL 49.9  49.9	MDL	mg/Kg  Unit mg/Kg  Unit mg/Kg  mg/Kg	<u>D</u>	Prepared  Prepared  04/17/23 09:27  04/17/23 09:27	04/18/23 12:52  Analyzed 04/18/23 11:09  Analyzed 04/17/23 21:45 04/17/23 21:45	Dil Fac
Total BTEX  Method: SW846 8015 NM - Diese Analyte  Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<0.00396  Pl Range Organ Result <p>49.9 Sel Range Orga Result 49.9 49.9</p>	ics (DRO) (Qualifier U nics (DRO) Qualifier U U U U	0.00396  RL 49.9  (GC) RL 49.9  49.9	MDL	mg/Kg  Unit mg/Kg  Unit mg/Kg  mg/Kg	<u>D</u>	Prepared  Prepared  04/17/23 09:27  04/17/23 09:27	04/18/23 12:52  Analyzed 04/18/23 11:09  Analyzed 04/17/23 21:45 04/17/23 21:45	Dil Fa

**Eurofins Carlsbad** 

Analyzed

04/24/23 20:52

RL

24.9

MDL Unit

mg/Kg

D

Prepared

Result Qualifier

1630

Dil Fac

Analyte

Chloride

## **Surrogate Summary**

Client: Terracon Consulting Eng & Scientists

Job ID: 890-4517-1

Project/Site: Mabley

SDG: KH227027

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4517-1	FS-05	134 S1+	69 S1-	
890-4517-1 MS	FS-05	138 S1+	76	
890-4517-1 MSD	FS-05	127	70	
890-4517-2	FS-06	146 S1+	73	
890-4517-3	FS-07	126	70	
890-4517-4	FS-08	118	64 S1-	
890-4517-5	FS-09	141 S1+	81	
890-4517-6	FS-10	142 S1+	78	
890-4517-7	FS-11	147 S1+	75	
890-4517-8	FS-12	155 S1+	75	
890-4517-9	FS-13	164 S1+	78	
890-4517-10	FS-14	169 S1+	80	
890-4517-11	FS-15	140 S1+	75	
890-4517-12	N-SW-2	137 S1+	71	
890-4517-13	E-SW-2	154 S1+	75	
890-4517-14	E-SW-4	152 S1+	74	
890-4517-15	W-SW-2	133 S1+	73	
890-4517-16	W-SW-3	155 S1+	74	
890-4517-17	W-SW-4	152 S1+	91	
890-4517-18	W-SW-5	169 S1+	78	
890-4517-19	W-SW-6	168 S1+	74	
890-4517-20	S-SW-1	151 S1+	81	
LCS 880-51326/1-A	Lab Control Sample	144 S1+	79	
LCSD 880-51326/2-A	Lab Control Sample Dup	158 S1+	85	
MB 880-51078/5-A	Method Blank	82	77	
MB 880-51326/5-A	Method Blank	84	73	

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)	
890-4517-1	FS-05	94	95	
390-4517-1 MS	FS-05	106	98	
890-4517-1 MSD	FS-05	99	97	
890-4517-2	FS-06	105	103	
890-4517-3	FS-07	68 S1-	79	
890-4517-4	FS-08	79	87	
390-4517-5	FS-09	52 S1-	62 S1-	
890-4517-6	FS-10	83	93	
890-4517-7	FS-11	71	81	
890-4517-8	FS-12	86	94	
890-4517-9	FS-13	88	100	
890-4517-10	FS-14	108	124	
890-4517-11	FS-15	112	121	

# **Surrogate Summary**

Client: Terracon Consulting Eng & Scientists

Job ID: 890-4517-1

Project/Site: Mabley

SDG: KH227027

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4517-12	N-SW-2	91	100	
890-4517-13	E-SW-2	109	122	
890-4517-14	E-SW-4	84	94	
890-4517-15	W-SW-2	102	112	
890-4517-16	W-SW-3	98	107	
890-4517-17	W-SW-4	97	107	
890-4517-18	W-SW-5	94	102	
890-4517-19	W-SW-6	91	98	
890-4517-20	S-SW-1	92	101	
LCS 880-51298/2-A	Lab Control Sample	87	106	
LCSD 880-51298/3-A	Lab Control Sample Dup	95	109	
MB 880-51298/1-A	Method Blank	83	107	
Surrogate Legend				

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Client: Terracon Consulting Eng & Scientists

Lab Sample ID: MB 880-51078/5-A

Project/Site: Mabley

Method: 8021B - Volatile Organic Compounds (GC)

Job ID: 890-4517-1 SDG: KH227027

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 51078

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/13/23 12:55	04/17/23 11:36	
Toluene	<0.00200	U	0.00200		mg/Kg		04/13/23 12:55	04/17/23 11:36	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/13/23 12:55	04/17/23 11:36	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/13/23 12:55	04/17/23 11:36	
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/13/23 12:55	04/17/23 11:36	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/13/23 12:55	04/17/23 11:36	

MB MB

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepare	ed	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130	04/13/23 1	2:55	04/17/23 11:36	1
1,4-Difluorobenzene (Surr)	77		70 - 130	04/13/23 1	2:55	04/17/23 11:36	1

Lab Sample ID: MB 880-51326/5-A

**Matrix: Solid** 

**Matrix: Solid** 

Analysis Batch: 51274

Analysis Batch: 51274

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

Prep Batch: 51326

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:54	04/18/23 01:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:54	04/18/23 01:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:54	04/18/23 01:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/17/23 13:54	04/18/23 01:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/17/23 13:54	04/18/23 01:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/17/23 13:54	04/18/23 01:42	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	04/17/23 13:54	04/18/23 01:42	1
1,4-Difluorobenzene (Surr)	73		70 - 130	04/17/23 13:54	04/18/23 01:42	1

Lab Sample ID: LCS 880-51326/1-A

**Matrix: Solid** 

Analysis Batch: 51274

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

Client Sample ID: Lab Control Sample Dup

70 - 130

105

Prep Batch: 51326

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09643		mg/Kg		96	70 - 130	
Toluene	0.100	0.09084		mg/Kg		91	70 - 130	
Ethylbenzene	0.100	0.09329		mg/Kg		93	70 - 130	
m-Xylene & p-Xylene	0.200	0.1856		mg/Kg		93	70 - 130	
o-Xylene	0.100	0.09575		mg/Kg		96	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	144	S1+	70 _ 130
1.4-Difluorobenzene (Surr)	79		70 - 130

Lab Sample ID: LCSD 880-51326/2-A

Mat

Benzene

Matrix: Solid						Prep 1	Type: To	tal/NA
Analysis Batch: 51274						Prep	Batch:	51326
	Spike	LCSD LCSD				%Rec		RPD
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit

0.1052

mg/Kg

**Eurofins Carlsbad** 

Page 26 of 49

0.100

1

4/25/2023

Client: Terracon Consulting Eng & Scientists

Project/Site: Mabley

Job ID: 890-4517-1

SDG: KH227027

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

Lab Sample ID: LCSD 880-51326/2-A

**Matrix: Solid** 

Analysis Batch: 51274

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 51326

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.09873	-	mg/Kg		99	70 - 130	8	35
Ethylbenzene	0.100	0.1027		mg/Kg		103	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.2061		mg/Kg		103	70 - 130	10	35
o-Xylene	0.100	0.1055		mg/Kg		105	70 - 130	10	35
	Toluene Ethylbenzene m-Xylene & p-Xylene	Analyte         Added           Toluene         0.100           Ethylbenzene         0.100           m-Xylene & p-Xylene         0.200	Analyte         Added         Result           Toluene         0.100         0.09873           Ethylbenzene         0.100         0.1027           m-Xylene & p-Xylene         0.200         0.2061	Analyte         Added         Result         Qualifier           Toluene         0.100         0.09873           Ethylbenzene         0.100         0.1027           m-Xylene & p-Xylene         0.200         0.2061	Analyte         Added         Result on the company of	Analyte         Added         Result Qualifier         Unit         D           Toluene         0.100         0.09873         mg/Kg           Ethylbenzene         0.100         0.1027         mg/Kg           m-Xylene & p-Xylene         0.200         0.2061         mg/Kg	Analyte         Added         Result Qualifier         Unit         D         %Rec           Toluene         0.100         0.09873         mg/Kg         99           Ethylbenzene         0.100         0.1027         mg/Kg         103           m-Xylene & p-Xylene         0.200         0.2061         mg/Kg         103	Analyte         Added         Result Qualifier         Unit         D         %Rec         Limits           Toluene         0.100         0.09873         mg/Kg         99         70 - 130           Ethylbenzene         0.100         0.1027         mg/Kg         103         70 - 130           m-Xylene & p-Xylene         0.200         0.2061         mg/Kg         103         70 - 130	Analyte         Added         Result Qualifier         Unit         D         %Rec         Limits         RPD           Toluene         0.100         0.09873         mg/Kg         99         70 - 130         8           Ethylbenzene         0.100         0.1027         mg/Kg         103         70 - 130         10           m-Xylene & p-Xylene         0.200         0.2061         mg/Kg         103         70 - 130         10

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	158	S1+	70 _ 130
1,4-Difluorobenzene (Surr)	85		70 - 130

Lab Sample ID: 890-4517-1 MS

**Matrix: Solid** 

Analysis Batch: 51274

Client Sample ID: FS-05 Prep Type: Total/NA

Prep Batch: 51326

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U F2 F1	0.100	0.08410		mg/Kg	_	84	70 - 130	
Toluene	< 0.00199	U F2 F1	0.100	0.08132		mg/Kg		81	70 - 130	
Ethylbenzene	<0.00199	U F2 F1	0.100	0.08878		mg/Kg		89	70 - 130	
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.200	0.1769		mg/Kg		88	70 - 130	
o-Xylene	<0.00199	U F2 F1	0.100	0.09005		mg/Kg		90	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130
1.4-Difluorobenzene (Surr)	76		70 - 130

Lab Sample ID: 890-4517-1 MSD

Matrix: Solid

Analysis Batch: 51274

Client Sample ID: FS-05 Prep Type: Total/NA

Prep Batch: 51326

•	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U F2 F1	0.0990	0.04561	F2 F1	mg/Kg		46	70 - 130	59	35
Toluene	<0.00199	U F2 F1	0.0990	0.04808	F2 F1	mg/Kg		49	70 - 130	51	35
Ethylbenzene	<0.00199	U F2 F1	0.0990	0.04706	F2 F1	mg/Kg		48	70 - 130	61	35
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.198	0.01001	F2 F1	mg/Kg		5	70 - 130	179	35
o-Xylene	<0.00199	U F2 F1	0.0990	0.05523	F2 F1	mg/Kg		56	70 - 130	48	35

MSD MSD

Surrogate	76Recovery	Qualifier	LIIIIII
4-Bromofluorobenzene (Surr)	127		70 - 130
1,4-Difluorobenzene (Surr)	70		70 - 130

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

Lab Sample ID: MB 880-51298/1-A

**Matrix: Solid** 

Analysis Batch: 51267

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

Prep Batch: 51298

		***						
Analyte	Result C	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0 U	J	50.0	mg/Kg		04/17/23 09:27	04/17/23 09:56	1
(GRO)-C6-C10								

Client: Terracon Consulting Eng & Scientists

Project/Site: Mabley

Job ID: 890-4517-1

SDG: KH227027

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

Lab Sample ID: MB 880-51298/1-A

**Matrix: Solid** 

Analysis Batch: 51267

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 51298

ı		IND	IVID						
	Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
	Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/17/23 09:27	04/17/23 09:56	1
	Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/17/23 09:27	04/17/23 09:56	1

MB MB

MR MR

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	04,	1/17/23 09:27	04/17/23 09:56	1
o-Terphenyl	107		70 - 130	04/	1/17/23 09:27	04/17/23 09:56	1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 880-51298/2-A Matrix: Solid Prep Type: Total/NA Analysis Batch: 51267

Prep Batch: 51298

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 840.5 mg/Kg 84 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 795.8 mg/Kg 80 70 - 130 C10-C28)

LCS LCS

LCSD LCSD

Surrogate	%Recovery Qual	ifier Limits
1-Chlorooctane	87	70 - 130
o-Terphenyl	106	70 - 130

Lab Sample ID: LCSD 880-51298/3-A

**Matrix: Solid** 

**Analysis Batch: 51267** 

Client Sample ID: Lab	Control Sample Dup
-----------------------	--------------------

Prep Type: Total/NA

Prep Batch: 51298

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	895.7		mg/Kg		90	70 - 130	6	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	875.8		mg/Kg		88	70 - 130	10	20	
C10-C28)										

	LCSD L	LUGD			
Surrogate	%Recovery Q	ualifier	Limits		
1-Chlorooctane	95		70 - 130		
o-Terphenyl	109		70 - 130		

Lab Sample ID: 890-4517-1 MS

**Matrix: Solid** 

Analysis Batch: 51267

Client Sample ID: FS-05 Prep Type: Total/NA Prep Batch: 51298

	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	998	1038		mg/Kg		102	70 - 130	
Diesel Range Organics (Over	58.8		998	1083		mg/Kg		103	70 - 130	

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	98		70 - 130

Client: Terracon Consulting Eng & Scientists

Job ID: 890-4517-1 Project/Site: Mabley SDG: KH227027

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

Lab Sample ID: 890-4517-1 MSD **Matrix: Solid** 

Analysis Batch: 51267

Client Sample ID: FS-05 Prep Type: Total/NA

Prep Batch: 51298

Sample Sample Spike MSD MSD Limit Result Qualifier RPD Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics <50.0 U 999 914.6 mg/Kg 90 70 - 130 13 20 (GRO)-C6-C10 999 Diesel Range Organics (Over 58.8 1028 mg/Kg 97 70 - 130 5

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	97		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-51309/1-A Client Sample ID: Method Blank **Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 51811** 

мв мв

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00 U	5.00	mg/Kg			04/24/23 18:35	1

Lab Sample ID: LCS 880-51309/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 51811** 

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	248.3		mg/Kg		99	90 - 110	

Lab Sample ID: LCSD 880-51309/3-A

**Matrix: Solid** 

Analysis Batch: 51811

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	246.2		ma/Ka		98	90 - 110		20	

Lab Sample ID: 890-4517-1 MS

**Matrix: Solid** 

Analysis Batch: 51811

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	1470	F1	1260	2823		ma/Ka		108	90 - 110	

Lab Sample ID: 890-4517-1 MSD

Matrix: Solid

Analysis Batch: 51811											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	1470	F1	1260	2869	F1	ma/Ka		111	90 - 110	2	20

**Eurofins Carlsbad** 

Client Sample ID: Lab Control Sample Dup

**Prep Type: Soluble** 

Client Sample ID: FS-05

Client Sample ID: FS-05

**Prep Type: Soluble** 

**Prep Type: Soluble** 

Client: Terracon Consulting Eng & Scientists

Project/Site: Mabley

Job ID: 890-4517-1

SDG: KH227027

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-4517-11 MS

Lab Sample ID: 890-4517-11 MSD

**Matrix: Solid** 

**Matrix: Solid** 

Analysis Batch: 51811

Analysis Batch: 51811

Client Sample ID: FS-15
Prep Type: Soluble

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Analyte Unit %Rec Limits Chloride 1240 1260 2554 mg/Kg 104 90 - 110

Client Sample ID: FS-15

**Prep Type: Soluble** 

Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec Chloride 1240 1260 2542 mg/Kg 103 90 - 110 0 20

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Job ID: 890-4517-1 SDG: KH227027

### **GC VOA**

Prep Batch: 51078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-51078/5-A	Method Blank	Total/NA	Solid	5035	

#### Analysis Batch: 51274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4517-1	FS-05	Total/NA	Solid	8021B	51326
890-4517-2	FS-06	Total/NA	Solid	8021B	51326
890-4517-3	FS-07	Total/NA	Solid	8021B	51326
890-4517-4	FS-08	Total/NA	Solid	8021B	51326
890-4517-5	FS-09	Total/NA	Solid	8021B	51326
890-4517-6	FS-10	Total/NA	Solid	8021B	51326
890-4517-7	FS-11	Total/NA	Solid	8021B	51326
890-4517-8	FS-12	Total/NA	Solid	8021B	51326
890-4517-9	FS-13	Total/NA	Solid	8021B	51326
890-4517-10	FS-14	Total/NA	Solid	8021B	51326
890-4517-11	FS-15	Total/NA	Solid	8021B	51326
890-4517-12	N-SW-2	Total/NA	Solid	8021B	51326
890-4517-13	E-SW-2	Total/NA	Solid	8021B	51326
890-4517-14	E-SW-4	Total/NA	Solid	8021B	51326
890-4517-15	W-SW-2	Total/NA	Solid	8021B	51326
890-4517-16	W-SW-3	Total/NA	Solid	8021B	51326
890-4517-17	W-SW-4	Total/NA	Solid	8021B	51326
890-4517-18	W-SW-5	Total/NA	Solid	8021B	51326
890-4517-19	W-SW-6	Total/NA	Solid	8021B	51326
890-4517-20	S-SW-1	Total/NA	Solid	8021B	51326
MB 880-51078/5-A	Method Blank	Total/NA	Solid	8021B	51078
MB 880-51326/5-A	Method Blank	Total/NA	Solid	8021B	51326
LCS 880-51326/1-A	Lab Control Sample	Total/NA	Solid	8021B	51326
LCSD 880-51326/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	51326
890-4517-1 MS	FS-05	Total/NA	Solid	8021B	51326
890-4517-1 MSD	FS-05	Total/NA	Solid	8021B	51326

#### Prep Batch: 51326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-4517-1	FS-05	Total/NA	Solid	5035	
890-4517-2	FS-06	Total/NA	Solid	5035	
890-4517-3	FS-07	Total/NA	Solid	5035	
390-4517-4	FS-08	Total/NA	Solid	5035	
890-4517-5	FS-09	Total/NA	Solid	5035	
390-4517-6	FS-10	Total/NA	Solid	5035	
890-4517-7	FS-11	Total/NA	Solid	5035	
390-4517-8	FS-12	Total/NA	Solid	5035	
890-4517-9	FS-13	Total/NA	Solid	5035	
890-4517-10	FS-14	Total/NA	Solid	5035	
390-4517-11	FS-15	Total/NA	Solid	5035	
890-4517-12	N-SW-2	Total/NA	Solid	5035	
390-4517-13	E-SW-2	Total/NA	Solid	5035	
390-4517-14	E-SW-4	Total/NA	Solid	5035	
890-4517-15	W-SW-2	Total/NA	Solid	5035	
390-4517-16	W-SW-3	Total/NA	Solid	5035	
890-4517-17	W-SW-4	Total/NA	Solid	5035	
890-4517-18	W-SW-5	Total/NA	Solid	5035	

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# **GC VOA (Continued)**

### Prep Batch: 51326 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4517-19	W-SW-6	Total/NA	Solid	5035	
890-4517-20	S-SW-1	Total/NA	Solid	5035	
MB 880-51326/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-51326/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-51326/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4517-1 MS	FS-05	Total/NA	Solid	5035	
890-4517-1 MSD	FS-05	Total/NA	Solid	5035	

### Analysis Batch: 51410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4517-1	FS-05	Total/NA	Solid	Total BTEX	
890-4517-2	FS-06	Total/NA	Solid	Total BTEX	
890-4517-3	FS-07	Total/NA	Solid	Total BTEX	
890-4517-4	FS-08	Total/NA	Solid	Total BTEX	
890-4517-5	FS-09	Total/NA	Solid	Total BTEX	
890-4517-6	FS-10	Total/NA	Solid	Total BTEX	
890-4517-7	FS-11	Total/NA	Solid	Total BTEX	
890-4517-8	FS-12	Total/NA	Solid	Total BTEX	
890-4517-9	FS-13	Total/NA	Solid	Total BTEX	
890-4517-10	FS-14	Total/NA	Solid	Total BTEX	
890-4517-11	FS-15	Total/NA	Solid	Total BTEX	
890-4517-12	N-SW-2	Total/NA	Solid	Total BTEX	
890-4517-13	E-SW-2	Total/NA	Solid	Total BTEX	
890-4517-14	E-SW-4	Total/NA	Solid	Total BTEX	
890-4517-15	W-SW-2	Total/NA	Solid	Total BTEX	
890-4517-16	W-SW-3	Total/NA	Solid	Total BTEX	
890-4517-17	W-SW-4	Total/NA	Solid	Total BTEX	
890-4517-18	W-SW-5	Total/NA	Solid	Total BTEX	
890-4517-19	W-SW-6	Total/NA	Solid	Total BTEX	
890-4517-20	S-SW-1	Total/NA	Solid	Total BTEX	

#### **GC Semi VOA**

### Analysis Batch: 51267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4517-1	FS-05	Total/NA	Solid	8015B NM	51298
890-4517-2	FS-06	Total/NA	Solid	8015B NM	51298
890-4517-3	FS-07	Total/NA	Solid	8015B NM	51298
890-4517-4	FS-08	Total/NA	Solid	8015B NM	51298
890-4517-5	FS-09	Total/NA	Solid	8015B NM	51298
890-4517-6	FS-10	Total/NA	Solid	8015B NM	51298
890-4517-7	FS-11	Total/NA	Solid	8015B NM	51298
890-4517-8	FS-12	Total/NA	Solid	8015B NM	51298
890-4517-9	FS-13	Total/NA	Solid	8015B NM	51298
890-4517-10	FS-14	Total/NA	Solid	8015B NM	51298
890-4517-11	FS-15	Total/NA	Solid	8015B NM	51298
890-4517-12	N-SW-2	Total/NA	Solid	8015B NM	51298
890-4517-13	E-SW-2	Total/NA	Solid	8015B NM	51298
890-4517-14	E-SW-4	Total/NA	Solid	8015B NM	51298
890-4517-15	W-SW-2	Total/NA	Solid	8015B NM	51298
890-4517-16	W-SW-3	Total/NA	Solid	8015B NM	51298

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Job ID: 890-4517-1 SDG: KH227027

GC Semi VOA (Continued)

### **Analysis Batch: 51267 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4517-17	W-SW-4	Total/NA	Solid	8015B NM	51298
890-4517-18	W-SW-5	Total/NA	Solid	8015B NM	51298
890-4517-19	W-SW-6	Total/NA	Solid	8015B NM	51298
890-4517-20	S-SW-1	Total/NA	Solid	8015B NM	51298
MB 880-51298/1-A	Method Blank	Total/NA	Solid	8015B NM	51298
LCS 880-51298/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	51298
LCSD 880-51298/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	51298
890-4517-1 MS	FS-05	Total/NA	Solid	8015B NM	51298
890-4517-1 MSD	FS-05	Total/NA	Solid	8015B NM	51298

#### Prep Batch: 51298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4517-1	FS-05	Total/NA	Solid	8015NM Prep	
890-4517-2	FS-06	Total/NA	Solid	8015NM Prep	
890-4517-3	FS-07	Total/NA	Solid	8015NM Prep	
890-4517-4	FS-08	Total/NA	Solid	8015NM Prep	
890-4517-5	FS-09	Total/NA	Solid	8015NM Prep	
890-4517-6	FS-10	Total/NA	Solid	8015NM Prep	
890-4517-7	FS-11	Total/NA	Solid	8015NM Prep	
890-4517-8	FS-12	Total/NA	Solid	8015NM Prep	
890-4517-9	FS-13	Total/NA	Solid	8015NM Prep	
890-4517-10	FS-14	Total/NA	Solid	8015NM Prep	
890-4517-11	FS-15	Total/NA	Solid	8015NM Prep	
890-4517-12	N-SW-2	Total/NA	Solid	8015NM Prep	
890-4517-13	E-SW-2	Total/NA	Solid	8015NM Prep	
890-4517-14	E-SW-4	Total/NA	Solid	8015NM Prep	
890-4517-15	W-SW-2	Total/NA	Solid	8015NM Prep	
890-4517-16	W-SW-3	Total/NA	Solid	8015NM Prep	
890-4517-17	W-SW-4	Total/NA	Solid	8015NM Prep	
890-4517-18	W-SW-5	Total/NA	Solid	8015NM Prep	
890-4517-19	W-SW-6	Total/NA	Solid	8015NM Prep	
890-4517-20	S-SW-1	Total/NA	Solid	8015NM Prep	
MB 880-51298/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-51298/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-51298/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4517-1 MS	FS-05	Total/NA	Solid	8015NM Prep	
890-4517-1 MSD	FS-05	Total/NA	Solid	8015NM Prep	

#### Analysis Batch: 51394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4517-1	FS-05	Total/NA	Solid	8015 NM	
890-4517-2	FS-06	Total/NA	Solid	8015 NM	
890-4517-3	FS-07	Total/NA	Solid	8015 NM	
890-4517-4	FS-08	Total/NA	Solid	8015 NM	
890-4517-5	FS-09	Total/NA	Solid	8015 NM	
890-4517-6	FS-10	Total/NA	Solid	8015 NM	
890-4517-7	FS-11	Total/NA	Solid	8015 NM	
890-4517-8	FS-12	Total/NA	Solid	8015 NM	
890-4517-9	FS-13	Total/NA	Solid	8015 NM	
890-4517-10	FS-14	Total/NA	Solid	8015 NM	
890-4517-11	FS-15	Total/NA	Solid	8015 NM	

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Job ID: 890-4517-1

# SDG: KH227027

## **GC Semi VOA (Continued)**

### Analysis Batch: 51394 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4517-12	N-SW-2	Total/NA	Solid	8015 NM	
890-4517-13	E-SW-2	Total/NA	Solid	8015 NM	
890-4517-14	E-SW-4	Total/NA	Solid	8015 NM	
890-4517-15	W-SW-2	Total/NA	Solid	8015 NM	
890-4517-16	W-SW-3	Total/NA	Solid	8015 NM	
890-4517-17	W-SW-4	Total/NA	Solid	8015 NM	
890-4517-18	W-SW-5	Total/NA	Solid	8015 NM	
890-4517-19	W-SW-6	Total/NA	Solid	8015 NM	
890-4517-20	S-SW-1	Total/NA	Solid	8015 NM	

#### **HPLC/IC**

#### Leach Batch: 51309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-4517-1	FS-05	Soluble	Solid	DI Leach	
890-4517-2	FS-06	Soluble	Solid	DI Leach	
890-4517-3	FS-07	Soluble	Solid	DI Leach	
890-4517-4	FS-08	Soluble	Solid	DI Leach	
890-4517-5	FS-09	Soluble	Solid	DI Leach	
890-4517-6	FS-10	Soluble	Solid	DI Leach	
890-4517-7	FS-11	Soluble	Solid	DI Leach	
890-4517-8	FS-12	Soluble	Solid	DI Leach	
890-4517-9	FS-13	Soluble	Solid	DI Leach	
890-4517-10	FS-14	Soluble	Solid	DI Leach	
890-4517-11	FS-15	Soluble	Solid	DI Leach	
890-4517-12	N-SW-2	Soluble	Solid	DI Leach	
890-4517-13	E-SW-2	Soluble	Solid	DI Leach	
890-4517-14	E-SW-4	Soluble	Solid	DI Leach	
890-4517-15	W-SW-2	Soluble	Solid	DI Leach	
890-4517-16	W-SW-3	Soluble	Solid	DI Leach	
890-4517-17	W-SW-4	Soluble	Solid	DI Leach	
890-4517-18	W-SW-5	Soluble	Solid	DI Leach	
890-4517-19	W-SW-6	Soluble	Solid	DI Leach	
890-4517-20	S-SW-1	Soluble	Solid	DI Leach	
MB 880-51309/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-51309/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-51309/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4517-1 MS	FS-05	Soluble	Solid	DI Leach	
890-4517-1 MSD	FS-05	Soluble	Solid	DI Leach	
890-4517-11 MS	FS-15	Soluble	Solid	DI Leach	
890-4517-11 MSD	FS-15	Soluble	Solid	DI Leach	

#### Analysis Batch: 51811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4517-1	FS-05	Soluble	Solid	300.0	51309
890-4517-2	FS-06	Soluble	Solid	300.0	51309
890-4517-3	FS-07	Soluble	Solid	300.0	51309
890-4517-4	FS-08	Soluble	Solid	300.0	51309
890-4517-5	FS-09	Soluble	Solid	300.0	51309
890-4517-6	FS-10	Soluble	Solid	300.0	51309
890-4517-7	FS-11	Soluble	Solid	300.0	51309

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Job ID: 890-4517-1

Project/Site: Mabley

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### **HPLC/IC (Continued)**

### **Analysis Batch: 51811 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4517-8	FS-12	Soluble	Solid	300.0	51309
890-4517-9	FS-13	Soluble	Solid	300.0	51309
890-4517-10	FS-14	Soluble	Solid	300.0	51309
890-4517-11	FS-15	Soluble	Solid	300.0	51309
890-4517-12	N-SW-2	Soluble	Solid	300.0	51309
890-4517-13	E-SW-2	Soluble	Solid	300.0	51309
890-4517-14	E-SW-4	Soluble	Solid	300.0	51309
890-4517-15	W-SW-2	Soluble	Solid	300.0	51309
890-4517-16	W-SW-3	Soluble	Solid	300.0	51309
890-4517-17	W-SW-4	Soluble	Solid	300.0	51309
890-4517-18	W-SW-5	Soluble	Solid	300.0	51309
890-4517-19	W-SW-6	Soluble	Solid	300.0	51309
890-4517-20	S-SW-1	Soluble	Solid	300.0	51309
MB 880-51309/1-A	Method Blank	Soluble	Solid	300.0	51309
LCS 880-51309/2-A	Lab Control Sample	Soluble	Solid	300.0	51309
LCSD 880-51309/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	51309
890-4517-1 MS	FS-05	Soluble	Solid	300.0	51309
890-4517-1 MSD	FS-05	Soluble	Solid	300.0	51309
890-4517-11 MS	FS-15	Soluble	Solid	300.0	51309
890-4517-11 MSD	FS-15	Soluble	Solid	300.0	51309

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Job ID: 890-4517-1

**Client Sample ID: FS-05** 

Lab Sample ID: 890-4517-1

Date Collected: 04/14/23 10:00 Date Received: 04/14/23 12:13

**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			5.02 g	5 mL	51326	04/17/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51274	04/18/23 02:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51410	04/18/23 12:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			51394	04/18/23 11:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	51298	04/17/23 09:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51267	04/17/23 13:22	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	51309	04/17/23 12:10	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	51811	04/24/23 18:49	SMC	EET MID

Client Sample ID: FS-06 Lab Sample ID: 890-4517-2

Date Collected: 04/14/23 10:02

Date Received: 04/14/23 12:13

Matrix: Solid

Dil Initial Final Batch Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 Total/NA 5.03 g 5 mL 51326 04/17/23 13:54 MNR EET MID Total/NA 8021B 5 mL 04/18/23 02:34 **EET MID** Analysis 1 5 mL 51274 MNR Total/NA Total BTEX 04/18/23 12:52 Analysis 51410 SM **EET MID** 1 Total/NA Analysis 8015 NM 51394 04/18/23 11:09 SM **EET MID** Total/NA 51298 04/17/23 09:27 Prep 8015NM Prep 10.00 g 10 mL A.I EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 51267 04/17/23 14:28 SM **EET MID** 04/17/23 12:10 Soluble Leach DI Leach 5 g 50 mL 51309 KS **EET MID** Soluble Analysis 300.0 20 50 mL 50 mL 51811 04/24/23 19:03 SMC **EET MID** 

Lab Sample ID: 890-4517-3 Client Sample ID: FS-07 Date Collected: 04/14/23 10:04

Date Received: 04/14/23 12:13

**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			5.01 g	5 mL	51326	04/17/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51274	04/18/23 03:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51410	04/18/23 12:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			51394	04/18/23 11:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	51298	04/17/23 09:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51267	04/17/23 14:50	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	51309	04/17/23 12:10	KS	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	51811	04/24/23 19:07	SMC	EET MID

Lab Sample ID: 890-4517-4 **Client Sample ID: FS-08** 

Date Collected: 04/14/23 10:06 Date Received: 04/14/23 12:13

_	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	51326	04/17/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51274	04/18/23 03:27	MNR	EET MID
Total/NA	Analysis	Total RTEY		1			51410	04/18/23 12:52	SM	EET MID

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Project/Site: Mabley

SDG: KH227027

Job ID: 890-4517-1

**Client Sample ID: FS-08** 

Lab Sample ID: 890-4517-4

**Matrix: Solid** 

Date Collected: 04/14/23 10:06 Date Received: 04/14/23 12:13

	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			51394	04/18/23 11:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	51298	04/17/23 09:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51267	04/17/23 15:12	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	51309	04/17/23 12:10	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	51811	04/24/23 19:12	SMC	EET MID

**Client Sample ID: FS-09** Lab Sample ID: 890-4517-5

Date Collected: 04/14/23 10:08 Date Received: 04/14/23 12:13

**Matrix: Solid** 

Batch Batch Dil Initial Final Batch Prepared Prep Type Method Amount Amount Number or Analyzed Type Run Factor Analyst Lab Total/NA 5035 Prep 4.95 g 5 mL 51326 04/17/23 13:54 MNR **EET MID** Total/NA Analysis 8021B 5 mL 5 mL 51274 04/18/23 03:53 MNR EET MID 1 Total/NA Total BTEX Analysis 1 51410 04/18/23 12:52 SM **EET MID** Total/NA Analysis 8015 NM 51394 04/18/23 11:09 SM EET MID Total/NA Prep 8015NM Prep 10.00 g 10 mL 51298 04/17/23 09:27 ΑJ **EET MID** Total/NA Analysis 8015B NM 1 uL 51267 04/17/23 15:34 SM **EET MID** 1 uL Soluble Leach DI Leach 4.96 g 50 mL 51309 04/17/23 12:10 KS EET MID EET MID Soluble Analysis 300.0 5 50 mL 50 mL 51811 04/24/23 19:16 SMC

**Client Sample ID: FS-10** Lab Sample ID: 890-4517-6 Date Collected: 04/14/23 10:10

Date Received: 04/14/23 12:13

**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			5.02 g	5 mL	51326	04/17/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51274	04/18/23 04:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51410	04/18/23 12:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			51394	04/18/23 11:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	51298	04/17/23 09:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51267	04/17/23 15:56	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	51309	04/17/23 12:10	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	51811	04/24/23 19:30	SMC	EET MID

Client Sample ID: FS-11 Lab Sample ID: 890-4517-7

Date Collected: 04/14/23 10:12 Date Received: 04/14/23 12:13

	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 mL	51326	04/17/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51274	04/18/23 04:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51410	04/18/23 12:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			51394	04/18/23 11:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	51298	04/17/23 09:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51267	04/17/23 16:18	SM	EET MID

**Eurofins Carlsbad** 

#### Lab Chronicle

Client: Terracon Consulting Eng & Scientists

Project/Site: Mabley

SDG: KH227027

**Client Sample ID: FS-11** 

Date Collected: 04/14/23 10:12 Date Received: 04/14/23 12:13 Lab Sample ID: 890-4517-7

**Matrix: Solid** 

Job ID: 890-4517-1

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	51309	04/17/23 12:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51811	04/24/23 19:35	SMC	EET MID

**Client Sample ID: FS-12** Lab Sample ID: 890-4517-8

Date Collected: 04/14/23 10:14 Date Received: 04/14/23 12:13 **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			5.01 g	5 mL	51326	04/17/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51274	04/18/23 05:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51410	04/18/23 12:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			51394	04/18/23 11:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	51298	04/17/23 09:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51267	04/17/23 16:40	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	51309	04/17/23 12:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51811	04/24/23 19:39	SMC	EET MID

Lab Sample ID: 890-4517-9 **Client Sample ID: FS-13** 

Date Collected: 04/14/23 10:16

**Matrix: Solid** 

**Matrix: Solid** 

Date Received: 04/14/23 12:13

	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	51326	04/17/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51274	04/18/23 05:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51410	04/18/23 12:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			51394	04/18/23 11:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	51298	04/17/23 09:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51267	04/17/23 17:01	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	51309	04/17/23 12:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51811	04/24/23 19:44	SMC	EET MID

**Client Sample ID: FS-14** Lab Sample ID: 890-4517-10

Date Collected: 04/14/23 10:18 Date Received: 04/14/23 12:13

Soluble

	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 mL	51326	04/17/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51274	04/18/23 06:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51410	04/18/23 12:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			51394	04/18/23 11:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	51298	04/17/23 09:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51267	04/17/23 17:22	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	51309	04/17/23 12:10	KS	EET MID

50 mL

50 mL

51811

04/24/23 19:48

SMC

**Eurofins Carlsbad** 

EET MID

Analysis

300.0

Client: Terracon Consulting Eng & Scientists

Project/Site: Mabley

SDG: KH227027

Job ID: 890-4517-1

**Client Sample ID: FS-15** 

Date Collected: 04/14/23 10:20 Date Received: 04/14/23 12:13 Lab Sample ID: 890-4517-11

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			5.01 g	5 mL	51326	04/17/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51274	04/18/23 07:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51410	04/18/23 12:52	SM	EET MIC
Total/NA	Analysis	8015 NM		1			51394	04/18/23 11:09	SM	EET MIC
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	51298	04/17/23 09:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51267	04/17/23 18:32	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	51309	04/17/23 12:10	KS	EET MIC
Soluble	Analysis	300.0		5	50 mL	50 mL	51811	04/24/23 19:53	SMC	EET MID

**Client Sample ID: N-SW-2** Lab Sample ID: 890-4517-12

Date Collected: 04/14/23 10:22 Date Received: 04/14/23 12:13

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			4.97 g	5 mL	51326	04/17/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51274	04/18/23 08:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51410	04/18/23 12:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			51394	04/18/23 11:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	51298	04/17/23 09:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51267	04/17/23 18:53	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	51309	04/17/23 12:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51811	04/24/23 20:07	SMC	EET MID

**Client Sample ID: E-SW-2** Lab Sample ID: 890-4517-13 Date Collected: 04/14/23 10:24

Date Received: 04/14/23 12:13

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	51326	04/17/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51274	04/18/23 08:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51410	04/18/23 12:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			51394	04/18/23 11:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	51298	04/17/23 09:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51267	04/17/23 19:15	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	51309	04/17/23 12:10	KS	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	51811	04/24/23 20:11	SMC	EET MID

Client Sample ID: E-SW-4 Lab Sample ID: 890-4517-14

Date Collected: 04/14/23 10:26 Date Received: 04/14/23 12:13

	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	51326	04/17/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51274	04/18/23 09:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51410	04/18/23 12:52	SM	EET MID

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Page 39 of 49

**Matrix: Solid** 

#### **Lab Chronicle**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mabley

SDG: KH227027 Lab Sample ID: 890-4517-14

Client Sample ID: E-SW-4

Date Received: 04/14/23 12:13

Date Collected: 04/14/23 10:26

Matrix: Solid

Job ID: 890-4517-1

	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			51394	04/18/23 11:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	51298	04/17/23 09:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51267	04/17/23 19:36	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	51309	04/17/23 12:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51811	04/24/23 20:25	SMC	EET MID

Client Sample ID: W-SW-2 Lab Sample ID: 890-4517-15

Date Collected: 04/14/23 10:28

Matrix: Solid

Date Received: 04/14/23 12:13

	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	51326	04/17/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51274	04/18/23 09:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51410	04/18/23 12:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			51394	04/18/23 11:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	51298	04/17/23 09:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51267	04/17/23 19:58	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	51309	04/17/23 12:10	KS	EET MIC
Soluble	Analysis	300.0		1	50 mL	50 mL	51811	04/24/23 20:29	SMC	EET MID

Client Sample ID: W-SW-3 Lab Sample ID: 890-4517-16

Date Collected: 04/14/23 10:30 Date Received: 04/14/23 12:13

_	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	51326	04/17/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51274	04/18/23 10:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51410	04/18/23 12:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			51394	04/18/23 11:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	51298	04/17/23 09:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51267	04/17/23 20:20	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	51309	04/17/23 12:10	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	51811	04/24/23 20:34	SMC	EET MID

Client Sample ID: W-SW-4 Lab Sample ID: 890-4517-17

Date Collected: 04/14/23 10:32 Date Received: 04/14/23 12:13

	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	51326	04/17/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51274	04/18/23 10:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51410	04/18/23 12:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			51394	04/18/23 11:09	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.03 g 1 uL	10 mL 1 uL	51298 51267	04/17/23 09:27 04/17/23 20:41	AJ SM	EET MID EET MID

**Eurofins Carlsbad** 

**Matrix: Solid** 

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#### Lab Chronicle

Client: Terracon Consulting Eng & Scientists

Project/Site: Mabley

Lab Sample ID: 890-4517-17

Client Sample ID: W-SW-4 Date Collected: 04/14/23 10:32 Date Received: 04/14/23 12:13

Matrix: Solid

Job ID: 890-4517-1

SDG: KH227027

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	51309	04/17/23 12:10	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	51811	04/24/23 20:38	SMC	EET MID

Client Sample ID: W-SW-5 Lab Sample ID: 890-4517-18

Date Collected: 04/14/23 10:34 **Matrix: Solid** Date Received: 04/14/23 12:13

	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	51326	04/17/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51274	04/18/23 11:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51410	04/18/23 12:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			51394	04/18/23 11:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	51298	04/17/23 09:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51267	04/17/23 21:03	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	51309	04/17/23 12:10	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	51811	04/24/23 20:43	SMC	EET MID

Client Sample ID: W-SW-6 Lab Sample ID: 890-4517-19

Date Collected: 04/14/23 10:36

Date Received: 04/14/23 12:13

**Matrix: Solid** 

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	51274	04/18/23 11:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51410	04/18/23 12:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			51394	04/18/23 11:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	51298	04/17/23 09:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51267	04/17/23 21:24	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	51309	04/17/23 12:10	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	51811	04/24/23 20:48	SMC	EET MID

Client Sample ID: S-SW-1 Lab Sample ID: 890-4517-20

Date Collected: 04/14/23 10:38 Date Received: 04/14/23 12:13 **Matrix: Solid** 

Prep Type	Batch Type	Batch		Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	
		Method	Run							Lab
Total/NA	Prep	5035			5.05 g	5 mL	51326	04/17/23 13:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51274	04/18/23 12:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51410	04/18/23 12:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			51394	04/18/23 11:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	51298	04/17/23 09:27	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51267	04/17/23 21:45	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	51309	04/17/23 12:10	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	51811	04/24/23 20:52	SMC	EET MID

## **Lab Chronicle**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mabley

#### Laboratory References:

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

Job ID: 890-4517-1 SDG: KH227027

# **Accreditation/Certification Summary**

Client: Terracon Consulting Eng & Scientists

Job ID: 890-4517-1 Project/Site: Mabley SDG: KH227027

## **Laboratory: Eurofins Midland**

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

Authority	P	rogram	Identification Number	Expiration Date	
Texas	N	ELAP	T104704400-22-25	06-30-23	
The following analytes the agency does not of	' '	ut the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for wh	
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM		Solid	Total TPH		

# **Method Summary**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mabley

Job ID: 890-4517-1 SDG: KH227027

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

#### **Protocol References:**

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

#### Laboratory References:

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

# **Sample Summary**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mabley

Job ID: 890-4517-1 SDG: KH227027

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4517-1	FS-05	Solid	04/14/23 10:00	04/14/23 12:13	5
890-4517-2	FS-06	Solid	04/14/23 10:02	04/14/23 12:13	5
890-4517-3	FS-07	Solid	04/14/23 10:04	04/14/23 12:13	5
890-4517-4	FS-08	Solid	04/14/23 10:06	04/14/23 12:13	5
890-4517-5	FS-09	Solid	04/14/23 10:08	04/14/23 12:13	5
890-4517-6	FS-10	Solid	04/14/23 10:10	04/14/23 12:13	5
890-4517-7	FS-11	Solid	04/14/23 10:12	04/14/23 12:13	5
890-4517-8	FS-12	Solid	04/14/23 10:14	04/14/23 12:13	5
890-4517-9	FS-13	Solid	04/14/23 10:16	04/14/23 12:13	5
890-4517-10	FS-14	Solid	04/14/23 10:18	04/14/23 12:13	5
890-4517-11	FS-15	Solid	04/14/23 10:20	04/14/23 12:13	5
890-4517-12	N-SW-2	Solid	04/14/23 10:22	04/14/23 12:13	0 - 5
890-4517-13	E-SW-2	Solid	04/14/23 10:24	04/14/23 12:13	0 - 5
890-4517-14	E-SW-4	Solid	04/14/23 10:26	04/14/23 12:13	0 - 5
890-4517-15	W-SW-2	Solid	04/14/23 10:28	04/14/23 12:13	0 - 5
890-4517-16	W-SW-3	Solid	04/14/23 10:30	04/14/23 12:13	0 - 5
890-4517-17	W-SW-4	Solid	04/14/23 10:32	04/14/23 12:13	0 - 5
890-4517-18	W-SW-5	Solid	04/14/23 10:34	04/14/23 12:13	0 - 5
890-4517-19	W-SW-6	Solid	04/14/23 10:36	04/14/23 12:13	0 - 5
890-4517-20	S-SW-1	Solid	04/14/23 10:38	04/14/23 12:13	0 - 5

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Address: 45	Company Name:	Project Manager:			euronns e	•
4518 W Pexce	Turacon	See Guessan Bill to: (if different)	-	Xenco	<b>Environment Testing</b>	
Address:	Company Name:	Bill to: (if different)	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	Chain of Custody

Circle Method(s) and Me

# Chain of Custody

Work Order Comments
Comments  Brownfields RRC RRC  PST/UST TRRP  DaPT Other:
Brownfields RRC RRC RRC RRP RST/UST RRP RPST/UST Other:
PST/UST ☐ TRRP ☐ DaPT ☐ Other:
PST/UST   TRRP   DaPT   Other:
EDD ADaPT
ANALYSIS REQUEST Preservative Codes
None
Cool: Cool MeOH: Me
HCL: HC HNO 3: HN
H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> NaOH: Na
H <sub>3</sub> PO <sub>4</sub> : HP
NaHSO 4: NABIS
Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> ; NaSO <sub>3</sub>
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC
Sample Comments
Mo Ni K Se
TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471
ce: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions entering the control entering the control of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control
IIONIS AEROO. A MINIMUM CRaige of 985,000 Will be applied to each public and a charge contract on the submitted to Culturing Astrony parties employed in the contract on the submitted to Culturing Astrony parties employed in the contract on the submitted to Culturing Astrony parties on the submitte
Relinquished by: (Signature) Received by: (Signature) Date/Time
SIS R  Pb  Pb  (Signature of the control of the con

SAMPLE RECEIPT

Sampler's Name:

oject Location:

roject Number:

roject Name:

Cooler Custody Seals:

amples Received Intact:

ample Custody Seals:

Total Containers:

City, State ZIP:

Address:

ompany Name:

oject Manager:

# **Login Sample Receipt Checklist**

Client: Terracon Consulting Eng & Scientists Job Number: 890-4517-1 SDG Number: KH227027

Login Number: 4517 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

# **Login Sample Receipt Checklist**

Client: Terracon Consulting Eng & Scientists

Job Number: 890-4517-1

SDG Number: KH227027

Login Number: 4517 List Source: Eurofins Midland
List Number: 2 List Creation: 04/17/23 08:35 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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<6mm (1/4").

**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Joseph Guesnier Terracon Consulting Eng & Scientists 5847 50th St Lubbock, Texas 79424

Generated 4/26/2023 4:01:08 PM

# **JOB DESCRIPTION**

Mobley SDG NUMBER KH227027

# **JOB NUMBER**

890-4554-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



# **Eurofins Carlsbad**

# **Job Notes**

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

# **Authorization**

Generated 4/26/2023 4:01:08 PM

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440

# **Eurofins Carlsbad**

# **Compliance Statement**

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

#### Coliform MCLs

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

## Warranties, Terms, and Conditions

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

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

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

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

H = field staff performs tests under NJ NELAP certification #PA093, PA NELAP certification # 46-05499

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

MRAMER

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

Laboratory Job ID: 890-4554-1 SDG: KH227027

# **Table of Contents**

Cover Page	1
Table of Contents	4
Definitions/Glossary	5
Case Narrative	6
Client Sample Results	8
Surrogate Summary	17
QC Sample Results	18
QC Association Summary	23
Lab Chronicle	26
Certification Summary	30
Method Summary	31
Sample Summary	32
Chain of Custody	33
Receipt Checklists	35

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# **Definitions/Glossary**

Client: Terracon Consulting Eng & Scientists Job ID: 890-4554-1 Project/Site: Mobley

SDG: KH227027

#### **Qualifiers**

**GC VOA** 

Qualifier	Qualifier Description	
*+	LCS and/or LCSD is outside acceptance limits, high biased.	
S1-	Surrogate recovery exceeds control limits, low biased.	
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	

#### **GC Semi VOA**

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

#### **HPLC/IC**

RER

RPD

TEF

TEQ

TNTC

RL

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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

**Eurofins Carlsbad** 

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

#### Case Narrative

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley

Job ID: 890-4554-1 SDG: KH227027

Job ID: 890-4554-1

**Laboratory: Eurofins Carlsbad** 

Narrative

Job Narrative 890-4554-1

#### Receipt

The samples were received on 4/20/2023 2:40 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 11.0°C

#### Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: F-FS01 (890-4554-1), F-FS05 (890-4554-2), F-FS02 (890-4554-3), F-FS03 (890-4554-4), F-FS04 (890-4554-5), F-N-SW1 (890-4554-6), F-E-SW1 (890-4554-7), F-E-SW2 (890-4554-8), F-W-SW1 (890-4554-9), F-W-SW2 (890-4554-10) and F-S-SW1 (890-4554-11).

#### GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-51919 recovered above the upper control limit for o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: Surrogate recovery for the following samples were outside control limits: F-FS05 (890-4554-2) and F-E-SW2 (890-4554-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCS 880-51847/1-A). Evidence of matrix interferences is not obvious.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-51847 and analytical batch 880-51919 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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 surrogate recovery for the blank associated with preparation batch 880-51848 and analytical batch 880-51824 was outside the upper control limits.

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-51848/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: F-S-SW1 (890-4554-11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: (CCV 880-51824/5). Evidence of matrix interferences is not obvious.

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: (CCV 880-51824/31). Evidence of matrix interferences is not obvious.

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-51848 and analytical batch 880-51824 was outside control limits. Sample non-homogeneity is suspected.

Method 8015MOD NM: The continuing calibration verification (CCV) associated with batch 880-51824 recovered above the upper control limit for Gasoline Range Organics (GRO)-C6-C10. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-51824/5).

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-51837/2-A). Evidence of matrix

#### **Case Narrative**

Client: Terracon Consulting Eng & Scientists

Job ID: 890-4554-1 Project/Site: Mobley SDG: KH227027

Job ID: 890-4554-1 (Continued)

**Laboratory: Eurofins Carlsbad (Continued)** 

interferences is not obvious.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: F-FS02 (890-4554-3), F-FS03 (890-4554-4) and F-FS04 (890-4554-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: F-W-SW2 (890-4554-10). 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.

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: Mobley

SDG: KH227027

Job ID: 890-4554-1

**Client Sample ID: F-FS01** 

Date Collected: 04/20/23 11:10 Date Received: 04/20/23 14:40

Sample Depth: 2'

Lab	Sample	ID:	890-4554-1
			Matrix: Salid

04/24/23 17:43

04/24/23 11:06

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/24/23 12:25	04/25/23 23:39	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/24/23 12:25	04/25/23 23:39	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		04/24/23 12:25	04/25/23 23:39	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/24/23 12:25	04/25/23 23:39	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		04/24/23 12:25	04/25/23 23:39	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/24/23 12:25	04/25/23 23:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				04/24/23 12:25	04/25/23 23:39	1
1,4-Difluorobenzene (Surr)	81		70 - 130				04/24/23 12:25	04/25/23 23:39	1

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Total BTEX <0.00398 U 0.00398 mg/Kg 04/26/23 10:45

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier Dil Fac RLMDL Unit D Prepared Analyzed Total TPH <49.9 U 49.9 ma/Ka 04/25/23 12:25

Total TFTT	<b>\43.3</b>	U	49.9		mg/rkg			04/23/23 12.23	'
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO) (0	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/24/23 11:06	04/24/23 17:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/24/23 11:06	04/24/23 17:43	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	128	70 - 130	04/24/23 11:06	04/24/23 17:43	1
o-Terphenyl	112	70 - 130	04/24/23 11:06	04/24/23 17:43	1

49.9

mg/Kg

<49.9 U

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac	
l	Chloride	69.3		5.03	mg/Kg			04/26/23 12:40	1	

**Client Sample ID: F-FS05** Lab Sample ID: 890-4554-2

Date Collected: 04/20/23 11:30 Date Received: 04/20/23 14:40

OII Range Organics (Over C28-C36)

Sample Depth: 2'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/24/23 12:25	04/25/23 23:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/24/23 12:25	04/25/23 23:59	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/24/23 12:25	04/25/23 23:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/24/23 12:25	04/25/23 23:59	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		04/24/23 12:25	04/25/23 23:59	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/24/23 12:25	04/25/23 23:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				04/24/23 12:25	04/25/23 23:59	1

**Eurofins Carlsbad** 

**Matrix: Solid** 

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley

SDG: KH227027

Lab Sample ID: 890-4554-2

Date Collected: 04/20/23 11:30 Date Received: 04/20/23 14:40

**Client Sample ID: F-FS05** 

Matrix: Solid

Job ID: 890-4554-1

Sample Depth: 2'

Method: SW846 8021B - Volatile	Organic Compounds	(GC) (Continued)
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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	61	S1-	70 - 130	04/24/23 12:25	04/25/23 23:59	1

#### Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/26/23 10:45	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/25/23 12:25	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/24/23 11:06	04/24/23 18:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/24/23 11:06	04/24/23 18:06	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/24/23 11:06	04/24/23 18:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130		04/24/23 11:06	04/24/23 18:06	1
o-Terphenyl	114		70 - 130	0	04/24/23 11:06	04/24/23 18:06	1

# Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	481		5.04		mg/Kg			04/26/23 12:44	1

Client Sample ID: F-FS02 Lab Sample ID: 890-4554-3

Date Collected: 04/20/23 11:43 Date Received: 04/20/23 14:40

Sample Depth: 2'

Mothodi	CIMOAC GOOAD	Valatile Or	ganic Compour	de (CC)
i wethod:	5W846 8U21B	- volatile Ur	danic Compour	ias (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/24/23 12:25	04/26/23 00:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/24/23 12:25	04/26/23 00:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/24/23 12:25	04/26/23 00:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/24/23 12:25	04/26/23 00:20	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		04/24/23 12:25	04/26/23 00:20	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/24/23 12:25	04/26/23 00:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				04/24/23 12:25	04/26/23 00:20	1
1,4-Difluorobenzene (Surr)	78		70 - 130				04/24/23 12:25	04/26/23 00:20	1

Mothod: TAI	SOP Total RTFY	- Total RTFY	Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399	mg/Kg			04/26/23 10:45	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC	Method:	: SW846 8015 N	M - Diesel R	ange Ord	ianics (	DRO)	(GC
---	---------	----------------	--------------	----------	----------	------	-----

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			04/25/23 12:25	1

**Eurofins Carlsbad** 

**Matrix: Solid** 

Client: Terracon Consulting Eng & Scientists

SDG: KH227027

Project/Site: Mobley **Client Sample ID: F-FS02** 

Lab Sample ID: 890-4554-3

Date Collected: 04/20/23 11:43 Date Received: 04/20/23 14:40 Matrix: Solid

Job ID: 890-4554-1

Sample Depth: 2'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		04/24/23 11:06	04/24/23 18:28	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		04/24/23 11:06	04/24/23 18:28	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/24/23 11:06	04/24/23 18:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130				04/24/23 11:06	04/24/23 18:28	1
o-Terphenyl	119		70 - 130				04/24/23 11:06	04/24/23 18:28	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	676		5.00		mg/Kg			04/26/23 12:58	

**Client Sample ID: F-FS03** Lab Sample ID: 890-4554-4 Date Collected: 04/20/23 11:50

Matrix: Solid

Date Received: 04/20/23 14:40

Sample Depth: 2'

Method: SW846 8021B - Volatile									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/24/23 12:25	04/26/23 00:40	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/24/23 12:25	04/26/23 00:40	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/24/23 12:25	04/26/23 00:40	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		04/24/23 12:25	04/26/23 00:40	1
o-Xylene	<0.00202	U *+	0.00202		mg/Kg		04/24/23 12:25	04/26/23 00:40	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		04/24/23 12:25	04/26/23 00:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				04/24/23 12:25	04/26/23 00:40	1
1,4-Difluorobenzene (Surr)	71		70 - 130				04/24/23 12:25	04/26/23 00:40	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			04/26/23 10:45	1
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (	GC)	MDI			Propared		
Method: SW846 8015 NM - Diese Analyte	el Range Organ Result	ics (DRO) (	GC)	MDL	Unit	D	Prepared	Analyzed	Dil Fac
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (	GC)	MDL		D	Prepared		Dil Fac
Method: SW846 8015 NM - Diese Analyte	Range Organ Result <a href="#">&lt;49.9</a>	ics (DRO) ( Qualifier	GC) RL 49.9	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	el Range Organ Result <a href="#">&lt;49.9</a> sel Range Organ	ics (DRO) ( Qualifier	GC) RL 49.9		Unit	D	Prepared Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	el Range Organ Result <a href="#">&lt;49.9</a> sel Range Organ	Qualifier Unics (DRO) Qualifier	RL 49.9 (GC)		Unit mg/Kg			Analyzed 04/25/23 12:25	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Range Organ Result <a href="#">&lt;49.9</a> Sel Range Orga Result	ics (DRO) ( Qualifier U  nics (DRO) Qualifier U	GC)  RL  49.9  (GC)  RL		Unit mg/Kg		Prepared	Analyzed 04/25/23 12:25	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Organ Result 49.9 sel Range Orga Result 49.9 449.9	ics (DRO) ( Qualifier U  nics (DRO) Qualifier U	(GC)  RL 49.9  (GC)  RL 49.9  49.9		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 04/24/23 11:06 04/24/23 11:06	Analyzed 04/25/23 12:25  Analyzed 04/24/23 18:50 04/24/23 18:50	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result sel Range Organ Result 49.9 sel Range Organ Result <49.9	ics (DRO) ( Qualifier U  nics (DRO) Qualifier U	(GC)  RL 49.9  (GC)  RL 49.9		Unit mg/Kg  Unit mg/Kg		Prepared 04/24/23 11:06	Analyzed 04/25/23 12:25  Analyzed 04/24/23 18:50	Dil Fac  Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Organ Result 49.9 sel Range Orga Result 49.9 449.9	ics (DRO) ( Qualifier U  nics (DRO) Qualifier U  U	(GC)  RL 49.9  (GC)  RL 49.9  49.9		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 04/24/23 11:06 04/24/23 11:06	Analyzed 04/25/23 12:25  Analyzed 04/24/23 18:50 04/24/23 18:50	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	sel Range Organ Result <49.9 sel Range Orga Result <49.9 <49.9 <49.9	ics (DRO) ( Qualifier U  nics (DRO) Qualifier U  U	GC)  RL 49.9  (GC)  RL 49.9  49.9  49.9		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 04/24/23 11:06 04/24/23 11:06	Analyzed 04/25/23 12:25  Analyzed 04/24/23 18:50 04/24/23 18:50	Dil Fac  Dil Fac  1

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley

Job ID: 890-4554-1

SDG: KH227027

**Matrix: Solid** 

**Client Sample ID: F-FS03** 

Date Collected: 04/20/23 11:50

Lab Sample ID: 890-4554-4 Matrix: Solid

Date Received: 04/20/23 14:40 Sample Depth: 2'

Method: EPA 300.0 - Anions, Ion C	hromatograp	hy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	374		4.97		mg/Kg			04/26/23 13:03	1

**Client Sample ID: F-FS04** Lab Sample ID: 890-4554-5

Date Collected: 04/20/23 11:57

Date Received: 04/20/23 14:40

Sample Depth: 2'

Method: SW846 8021B - Volatile	<b>Organic Comp</b>	ounds (GC)	)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/24/23 12:25	04/26/23 01:01	
Toluene	< 0.00199	U	0.00199		mg/Kg		04/24/23 12:25	04/26/23 01:01	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		04/24/23 12:25	04/26/23 01:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/24/23 12:25	04/26/23 01:01	1
o-Xylene	< 0.00199	U *+	0.00199		mg/Kg		04/24/23 12:25	04/26/23 01:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/24/23 12:25	04/26/23 01:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				04/24/23 12:25	04/26/23 01:01	1
1,4-Difluorobenzene (Surr)	80		70 - 130				04/24/23 12:25	04/26/23 01:01	1
Method: TAL SOP Total BTEX - 1 Analyte		culation Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/26/23 10:45	1
Method: SW846 8015 NM - Diese Analyte		ics (DRO) (	GC)	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/25/23 12:25	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (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		04/24/23 11:06	04/24/23 19:11	1
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		04/24/23 11:06	04/24/23 19:11	1
C10-C28) OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/24/23 11:06	04/24/23 19:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	137	S1+	70 - 130				04/24/23 11:06	04/24/23 19:11	1
o-Terphenyl	121		70 - 130				04/24/23 11:06	04/24/23 19:11	1

**Eurofins Carlsbad** 

Analyzed

04/26/23 13:07

RL

4.98

MDL Unit

mg/Kg

D

Prepared

Dil Fac

Analyte

Chloride

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

451

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley

Client Sample ID: F-N-SW1

Date Collected: 04/20/23 12:53 Date Received: 04/20/23 14:40

Sample Depth: 0-2

Lab	Samp	le ID:	890-455	4-6
				40.0

04/24/23 11:06 04/25/23 06:47

**Matrix: Solid** 

Job ID: 890-4554-1

SDG: KH227027

Mothod: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/24/23 12:25	04/26/23 02:23	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/24/23 12:25	04/26/23 02:23	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/24/23 12:25	04/26/23 02:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/24/23 12:25	04/26/23 02:23	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		04/24/23 12:25	04/26/23 02:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/24/23 12:25	04/26/23 02:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				04/24/23 12:25	04/26/23 02:23	1
1,4-Difluorobenzene (Surr)	93		70 - 130				04/24/23 12:25	04/26/23 02:23	1

	- Method: TAL SOP Total BTEX - Tot	al BTEX Cald	culation							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
l	Total BTEX	<0.00398	U	0.00398		mg/Kg	<u></u>		04/26/23 10:45	1

	Method: SW846 8015 NM - Diesel R	ange Organics (DI	RO) (GC)					
	Analyte	Result Qualifi	ier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
l	Total TPH	75.6	49.8	mg/Kg			04/25/23 12:25	1

Method: SW846 8015B NM - Dies	ei Kalige Orga	nics (DRO) (	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		04/24/23 11:06	04/25/23 06:47	1
(GRO)-C6-C10									
Diesel Range Organics (Over	75.6		49.8		mg/Kg		04/24/23 11:06	04/25/23 06:47	1
C10-C28)									

<49.8 U

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	126	70 - 130	04/24/23 11:06	04/25/23 06:47	1
o-Terphenyl	112	70 - 130	04/24/23 11:06	04/25/23 06:47	1

49.8

mg/Kg

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	294		5.01		mg/Kg			04/26/23 13:12	1

Client Sample ID: F-E-SW1 Lab Sample ID: 890-4554-7

Date Collected: 04/20/23 12:53 Date Received: 04/20/23 14:40

Oll Range Organics (Over C28-C36)

Sample Depth: 0-2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/24/23 12:25	04/26/23 02:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/24/23 12:25	04/26/23 02:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/24/23 12:25	04/26/23 02:43	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/24/23 12:25	04/26/23 02:43	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		04/24/23 12:25	04/26/23 02:43	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/24/23 12:25	04/26/23 02:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				04/24/23 12:25	04/26/23 02:43	1

**Eurofins Carlsbad** 

**Matrix: Solid** 

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley

Lab Sample ID: 890-4554-7

Lab Sample ID: 890-4554-8

**Matrix: Solid** 

Job ID: 890-4554-1 SDG: KH227027

Client Sample ID: F-E-SW1

Date Collected: 04/20/23 12:53 Date Received: 04/20/23 14:40

Matrix: Solid

Sample Depth: 0-2

Method: SW846 8021B	- Volatile Organic	Compounds (	GC)	(Continued)
moundar official contract	Tolumo Organio	oompounae (	,	( Continuou,

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	77	70 - 130	04/24/23 12:25	04/26/23 02:43	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/26/23 10:45	1

#### Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte		ualifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8 U	49.8	ma/Ke	a		04/25/23 12:25	1

#### Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/24/23 11:06	04/25/23 07:09	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/24/23 11:06	04/25/23 07:09	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/24/23 11:06	04/25/23 07:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108	70 - 130	04/24/23 11:06	04/25/23 07:09	1
o-Terphenyl	94	70 - 130	04/24/23 11:06	04/25/23 07:09	1

#### Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	233		4.99		mg/Kg			04/26/23 13:16	1

Client Sample ID: F-E-SW2

Date Collected: 04/20/23 13:07

Date Received: 04/20/23 14:40

Sample Depth: 0-2

ı	Method: SW846 8021B	Maladila Ossasia	O = ==== d= (OO)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/24/23 12:25	04/26/23 03:03	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/24/23 12:25	04/26/23 03:03	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/24/23 12:25	04/26/23 03:03	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/24/23 12:25	04/26/23 03:03	1
o-Xylene	<0.00201	U *+	0.00201		mg/Kg		04/24/23 12:25	04/26/23 03:03	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/24/23 12:25	04/26/23 03:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				04/24/23 12:25	04/26/23 03:03	1
1,4-Difluorobenzene (Surr)	65	S1-	70 - 130				04/24/23 12:25	04/26/23 03:03	1

Method: TAI	SOP Total BTFX	- Total RTFX	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/26/23 10:45	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC	Method:	: SW846 8015 N	M - Diesel R	ange Ord	ianics (	DRO)	(GC
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Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			04/25/23 12:25	1

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley

SDG: KH227027

Client Sample ID: F-E-SW2

Date Collected: 04/20/23 13:07 Date Received: 04/20/23 14:40

Sample Depth: 0-2

Lab Sample ID: 890-4554-8

Matrix: Solid

Job ID: 890-4554-1

Method: SW846 8015B NM - Dies	el Range Orga	inics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		04/24/23 11:06	04/25/23 07:31	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		04/24/23 11:06	04/25/23 07:31	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/24/23 11:06	04/25/23 07:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				04/24/23 11:06	04/25/23 07:31	
o-Terphenyl	90		70 - 130				04/24/23 11:06	04/25/23 07:31	1
- Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	le						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	234		5.03		mg/Kg			04/26/23 13:21	1

Client Sample ID: F-W-SW1 Lab Sample ID: 890-4554-9 Matrix: Solid

Date Collected: 04/20/23 13:09

Date Received: 04/20/23 14:40

Sample Depth: 0-2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/24/23 12:25	04/26/23 03:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/24/23 12:25	04/26/23 03:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/24/23 12:25	04/26/23 03:24	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/24/23 12:25	04/26/23 03:24	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		04/24/23 12:25	04/26/23 03:24	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/24/23 12:25	04/26/23 03:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				04/24/23 12:25	04/26/23 03:24	1
1,4-Difluorobenzene (Surr)	89		70 - 130				04/24/23 12:25	04/26/23 03:24	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			04/26/23 10:45	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/25/23 12:25	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/24/23 11:06	04/25/23 07:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/24/23 11:06	04/25/23 07:52	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/24/23 11:06	04/25/23 07:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130				04/24/23 11:06	04/25/23 07:52	1

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley

Job ID: 890-4554-1

SDG: KH227027

Matrix: Solid

Lab Sample ID: 890-4554-9

**Client Sample ID: F-W-SW1** 

Date Collected: 04/20/23 13:09

Date Received: 04/20/23 14:40

Sample Depth: 0-2

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble											
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	201		5.05		mg/Kg			04/26/23 13:34	1		

Client Sample ID: F-W-SW2 Lab Sample ID: 890-4554-10 Matrix: Solid

Date Collected: 04/20/23 13:15 Date Received: 04/20/23 14:40

Sample Depth: 0-2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199		mg/Kg		04/24/23 12:25	04/26/23 03:44	
Toluene	< 0.00199	U	0.00199		mg/Kg		04/24/23 12:25	04/26/23 03:44	
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		04/24/23 12:25	04/26/23 03:44	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/24/23 12:25	04/26/23 03:44	
o-Xylene	< 0.00199	U *+	0.00199		mg/Kg		04/24/23 12:25	04/26/23 03:44	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/24/23 12:25	04/26/23 03:44	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	105		70 - 130				04/24/23 12:25	04/26/23 03:44	
1,4-Difluorobenzene (Surr)	72		70 - 130				04/24/23 12:25	04/26/23 03:44	
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
T-4-I DTCV	<0.00398	П	0.00398		mg/Kg			04/26/23 10:45	
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (	GC)	MDI		D	Propared		
Total BTEX  Method: SW846 8015 NM - Diese Analyte Total TPH	el Range Organ	ics (DRO) (		MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 04/25/23 12:25	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	Result <a href="#">&lt;49.9</a>	ics (DRO) (( Qualifier	GC) RL 49.9	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	el Range Organ Result <a href="#">&lt;49.9</a> sel Range Organ	ics (DRO) ( Qualifier U	RL 49.9 (GC)		Unit mg/Kg			Analyzed 04/25/23 12:25	Dil Fa
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte	el Range Organ Result <a href="#">49.9</a> <a href="#">sel Range Orga</a> Result	ics (DRO) (Qualifier Unics (DRO) Qualifier	GC)  RL  49.9  (GC)  RL	MDL MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 04/25/23 12:25 Analyzed	Dil Fa
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	el Range Organ Result <a href="#">&lt;49.9</a> sel Range Organ	ics (DRO) (Qualifier Unics (DRO) Qualifier	RL 49.9 (GC)		Unit mg/Kg			Analyzed 04/25/23 12:25	Dil Fa
Method: SW846 8015 NM - Diese Analyte	el Range Organ Result <a href="#">49.9</a> <a href="#">sel Range Orga</a> Result	ics (DRO) (( Qualifier U  nics (DRO) Qualifier U	GC)  RL  49.9  (GC)  RL		Unit mg/Kg		Prepared	Analyzed 04/25/23 12:25 Analyzed	Dil Fa
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result <49.9  sel Range Orga Result <49.9	ics (DRO) (( Qualifier U  nics (DRO) Qualifier U	(GC)  RL 49.9  (GC)  RL 49.9		Unit mg/Kg  Unit mg/Kg		Prepared 04/24/23 11:06	Analyzed 04/25/23 12:25  Analyzed 04/25/23 08:14	Dil Fa
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result <49.9 sel Range Orga Result <49.9	ics (DRO) (( Qualifier U  nics (DRO) Qualifier U	(GC)  RL 49.9  (GC)  RL 49.9		Unit mg/Kg  Unit mg/Kg		Prepared 04/24/23 11:06	Analyzed 04/25/23 12:25  Analyzed 04/25/23 08:14	Dil Fa
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	el Range Organ Result <49.9 sel Range Orga Result <49.9 <49.9	ics (DRO) (( Qualifier U  nics (DRO) Qualifier U  U	(GC)  RL 49.9  (GC)  RL 49.9  49.9		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 04/24/23 11:06 04/24/23 11:06	Analyzed 04/25/23 12:25  Analyzed 04/25/23 08:14 04/25/23 08:14	Dil Fa
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate	sel Range Organ Result <49.9 sel Range Orga Result <49.9 <49.9 <49.9	ics (DRO) (( Qualifier U  nics (DRO) Qualifier U  U	GC)  RL 49.9  (GC) RL 49.9  49.9  49.9		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 04/24/23 11:06 04/24/23 11:06	Analyzed 04/25/23 12:25  Analyzed 04/25/23 08:14 04/25/23 08:14	Dil Fa
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10	sel Range Organ Result <49.9 sel Range Orga Result <49.9 <49.9 <49.9 %Recovery	ics (DRO) (( Qualifier U  nics (DRO) Qualifier U  U	GC) RL 49.9  (GC) RL 49.9  49.9  49.9  Limits		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 04/24/23 11:06 04/24/23 11:06 04/24/23 11:06 Prepared	Analyzed 04/25/23 12:25  Analyzed 04/25/23 08:14 04/25/23 08:14 04/25/23 08:14  Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	Range Organ   Result	ics (DRO) (( Qualifier U  nics (DRO) Qualifier U  U  Qualifier S1+	GC)  RL 49.9  (GC)  RL 49.9  49.9  49.9  Limits 70 - 130 70 - 130		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 04/24/23 11:06 04/24/23 11:06 04/24/23 11:06  Prepared 04/24/23 11:06	Analyzed 04/25/23 12:25  Analyzed 04/25/23 08:14 04/25/23 08:14  Analyzed 04/25/23 08:14	Dil Fa

**Eurofins Carlsbad** 

04/26/23 13:39

5.02

mg/Kg

132

Chloride

Client: Terracon Consulting Eng & Scientists

Job ID: 890-4554-1 SDG: KH227027

Project/Site: Mobley

Lab Sample ID: 890-4554-11

Client Sample ID: F-S-SW1 Date Collected: 04/20/23 13:19 Date Received: 04/20/23 14:40

Matrix: Solid

Sample Depth: 0-2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/24/23 12:25	04/26/23 04:05	
Toluene	<0.00200	U	0.00200		mg/Kg		04/24/23 12:25	04/26/23 04:05	•
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/24/23 12:25	04/26/23 04:05	
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/24/23 12:25	04/26/23 04:05	
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		04/24/23 12:25	04/26/23 04:05	
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/24/23 12:25	04/26/23 04:05	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	107		70 - 130				04/24/23 12:25	04/26/23 04:05	
1,4-Difluorobenzene (Surr)	87		70 - 130				04/24/23 12:25	04/26/23 04:05	
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/26/23 10:45	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (	GC)						
Analyte		Qualifier	RL_	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/25/23 10:20	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F2	50.0		mg/Kg		04/24/23 12:29	04/24/23 16:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/24/23 12:29	04/24/23 16:36	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/24/23 12:29	04/24/23 16:36	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	132	S1+	70 - 130				04/24/23 12:29	04/24/23 16:36	1
o-Terphenyl	159	S1+	70 - 130				04/24/23 12:29	04/24/23 16:36	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	е						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	135		4.98		mg/Kg			04/26/23 13:53	1

# **Surrogate Summary**

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

Job ID: 890-4554-1 SDG: KH227027

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

•				Percent Surrogat
		BFB1	DFBZ1	
_ab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4554-1	F-FS01	110	81	
890-4554-2	F-FS05	117	61 S1-	
890-4554-3	F-FS02	109	78	
890-4554-4	F-FS03	108	71	
890-4554-5	F-FS04	114	80	
890-4554-6	F-N-SW1	93	93	
890-4554-7	F-E-SW1	100	77	
890-4554-8	F-E-SW2	114	65 S1-	
890-4554-9	F-W-SW1	108	89	
890-4554-10	F-W-SW2	105	72	
890-4554-11	F-S-SW1	107	87	
LCS 880-51847/1-A	Lab Control Sample	134 S1+	95	
LCSD 880-51847/2-A	Lab Control Sample Dup	121	99	
MB 880-51847/5-A	Method Blank	84	81	
MB 880-51922/5-A	Method Blank	79	94	
Surrogate Legend				
BFB = 4-Bromofluorober	nzene (Surr)			
DFBZ = 1,4-Difluorobenz	, ,			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Lim
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4554-1	F-FS01	128	112	
890-4554-2	F-FS05	129	114	
390-4554-3	F-FS02	134 S1+	119	
390-4554-4	F-FS03	134 S1+	119	
390-4554-5	F-FS04	137 S1+	121	
890-4554-6	F-N-SW1	126	112	
890-4554-7	F-E-SW1	108	94	
890-4554-8	F-E-SW2	104	90	
890-4554-9	F-W-SW1	130	116	
890-4554-10	F-W-SW2	131 S1+	116	
890-4554-11	F-S-SW1	132 S1+	159 S1+	
390-4554-11 MS	F-S-SW1	91	103	
390-4554-11 MSD	F-S-SW1	109	117	
LCS 880-51837/2-A	Lab Control Sample	144 S1+	127	
LCS 880-51848/2-A	Lab Control Sample	106	130	
LCSD 880-51837/3-A	Lab Control Sample Dup	129	110	
LCSD 880-51848/3-A	Lab Control Sample Dup	124	150 S1+	
MB 880-51837/1-A	Method Blank	123	116	
MB 880-51848/1-A	Method Blank	119	154 S1+	

**Eurofins Carlsbad** 

OTPH = o-Terphenyl

2

3

4

6

8

10

12

13

I/NA

## **QC Sample Results**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley

Job ID: 890-4554-1

SDG: KH227027

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

Lab Sample ID: MB 880-51847/5-A

**Matrix: Solid** 

Analysis Batch: 51919

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 51847

	МВ	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/24/23 12:25	04/25/23 21:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/24/23 12:25	04/25/23 21:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/24/23 12:25	04/25/23 21:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/24/23 12:25	04/25/23 21:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/24/23 12:25	04/25/23 21:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/24/23 12:25	04/25/23 21:35	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	04/24/23 12:25	04/25/23 21:35	1
1,4-Difluorobenzene (Surr)	81		70 - 130	04/24/23 12:25	04/25/23 21:35	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 51847

Lab Sample ID: LCS 880-51847/1-A **Matrix: Solid** 

**Analysis Batch: 51919** 

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08631		mg/Kg		86	70 - 130	
Toluene	0.100	0.09597		mg/Kg		96	70 - 130	
Ethylbenzene	0.100	0.1120		mg/Kg		112	70 - 130	
m-Xylene & p-Xylene	0.200	0.2393		mg/Kg		120	70 - 130	
o-Xylene	0.100	0.1306	*+	mg/Kg		131	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 880-51847/2-A **Client Sample ID: Lab Control Sample Dup** 

**Matrix: Solid** 

**Analysis Batch: 51919** 

<b>,</b>										
	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.09470		mg/Kg		95	70 - 130	9	35	
Toluene	0.100	0.09741		mg/Kg		97	70 - 130	1	35	
Ethylbenzene	0.100	0.1068		mg/Kg		107	70 - 130	5	35	
m-Xylene & p-Xylene	0.200	0.2288		mg/Kg		114	70 - 130	4	35	
o-Xylene	0.100	0.1317	*+	mg/Kg		132	70 - 130	1	35	

LCSD LCSD

Surrogate	%Recovery Qua	lifier Limits
4-Bromofluorobenzene (Surr)	121	70 - 130
1,4-Difluorobenzene (Surr)	99	70 - 130

Lab Sample ID: MB 880-51922/5-A

Matrix: Solid

**Analysis Batch: 51919** 

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 51922

Prep Type: Total/NA

Prep Batch: 51847

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/25/23 08:22	04/25/23 11:00	1
Toluene	< 0.00200	U	0.00200		mg/Kg		04/25/23 08:22	04/25/23 11:00	1

## QC Sample Results

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley

Job ID: 890-4554-1

SDG: KH227027

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

Lab Sample ID: MB 880-51922/5-A

**Matrix: Solid** 

**Analysis Batch: 51919** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 51922

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/25/23 08:22	04/25/23 11:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/25/23 08:22	04/25/23 11:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/25/23 08:22	04/25/23 11:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/25/23 08:22	04/25/23 11:00	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130				04/25/23 08:22	04/25/23 11:00	1

70 - 130

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

94

Lab Sample ID: MB 880-51837/1-A

**Matrix: Solid** 

Analysis Batch: 51822

1,4-Difluorobenzene (Surr)

Client Sample ID: Method Blank

04/25/23 11:00

04/25/23 08:22

Prepared

04/24/23 08:06

04/24/23 08:06

Prep Type: Total/NA

Prep Batch: 51837

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/24/23 08:06	04/24/23 09:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/24/23 08:06	04/24/23 09:03	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/24/23 08:06	04/24/23 09:03	1
	MB	MB							

Limits

Surrogate	%Recovery	Qualifier	
1-Chlorooctane	123		

-		
o-Terphenyl	116	70 - 130
1-Chlorooctane	123	70 - 130

Client Sample ID: Lab Control Sample

Analyzed

04/24/23 09:03

04/24/23 09:03

Prep Type: Total/NA Prep Batch: 51837

Spike LCS LCS Added Analyte Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 1146 mg/Kg 115 70 - 130 (GRO)-C6-C10 1000 1179 mg/Kg 70 - 130 Diesel Range Organics (Over 118

C10-C28)

**Matrix: Solid** 

**Analysis Batch: 51822** 

LCS LCS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 144 S1+ 70 - 130 o-Terphenyl 127 70 - 130

Lab Sample ID: LCSD 880-51837/3-A

Lab Sample ID: LCS 880-51837/2-A

Matrix: Solid

**Analysis Batch: 51822** 

Client Sample ID: Lal	b Contr	ol Sar	nple	Dup
	_	_	_	

Prep Type: Total/NA

Prep Batch: 51837

	Spike	LCSD	LCSD			%Rec		RPD
Analyte	Added	Result	Qualifier Un	it D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1025	mg	/Kg	103	70 - 130	11	20
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1132	mg	/Kg	113	70 - 130	4	20
C10-C28)								

**Eurofins Carlsbad** 

Dil Fac

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley

Job ID: 890-4554-1

SDG: KH227027

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

Lab Sample ID: LCSD 880-51837/3-A

Lab Sample ID: MB 880-51848/1-A

**Matrix: Solid** 

**Matrix: Solid** 

Analysis Batch: 51822

Analysis Batch: 51824

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 51837

LCSD LCSD

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 129 70 - 130 o-Terphenyl 110 70 - 130

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 51848

MB MB

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac <50.0 U 50.0 04/24/23 12:29 04/24/23 15:31 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 50.0 04/24/23 12:29 <50.0 U 04/24/23 15:31 mg/Kg C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 04/24/23 12:29 04/24/23 15:31

MB MB

%Recovery Qualifier Limits Prepared Dil Fac Surrogate Analyzed 1-Chlorooctane 70 - 130 04/24/23 12:29 04/24/23 15:31 119 o-Terphenyl 154 S1+ 70 - 130 04/24/23 12:29 04/24/23 15:31

Lab Sample ID: LCS 880-51848/2-A

**Matrix: Solid** 

Analysis Batch: 51824

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 51848

%Rec

LCS LCS Spike Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 969.9 mg/Kg 97 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 911.5 mg/Kg 91 70 - 130 C10-C28)

LCS LCS

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 106 70 - 130 o-Terphenyl 130 70 - 130

Lab Sample ID: LCSD 880-51848/3-A Client Sample ID: Lab Control Sample Dup

**Matrix: Solid** 

Analysis Batch: 51824

Prep Type: Total/NA

Prep Batch: 51848

Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Unit %Rec Limits RPD Limit Analyte D 1000 Gasoline Range Organics 1095 109 20 mg/Kg 70 - 13012 (GRO)-C6-C10 1000 1052 105 70 - 130 20 Diesel Range Organics (Over mg/Kg 14

C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	124		70 - 130
o-Terphenyl	150	S1+	70 - 130

# QC Sample Results

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley

Job ID: 890-4554-1 SDG: KH227027

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

Lab Sample ID: 890-4554-11 MS

**Matrix: Solid** 

Analysis Batch: 51824

Client Sample ID: F-S-SW1

Prep Type: Total/NA Prep Batch: 51848

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<50.0	U F2	997	913.0		mg/Kg		92	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<50.0	U	997	1056		mg/Kg		106	70 - 130	
C10-C28)										

MS MS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	91		70 - 130
o-Terphenyl	103		70 - 130

**Matrix: Solid** 

**Analysis Batch: 51824** 

Lab Sample ID: 890-4554-11 MSD

Client Sample ID: F-S-SW1 Prep Type: Total/NA

Prep Batch: 51848

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<50.0	U F2	998	1200	F2	mg/Kg		120	70 - 130	27	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<50.0	U	998	1231		mg/Kg		123	70 - 130	15	20
C10 C28)											

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	117		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-51904/1-A

**Matrix: Solid** 

Analysis Batch: 52044

Client Sample ID: Method Blank **Prep Type: Soluble** 

Analyte Result Qualifier MDL Unit Dil Fac Prepared Analyzed Chloride <5.00 U 5.00 04/26/23 12:03 mg/Kg

Lab Sample ID: LCS 880-51904/2-A **Matrix: Solid** 

MB MB

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Analysis Batch: 52044

LCS LCS %Rec Spike Analyte Added Result Qualifier Limits Unit %Rec Chloride 250 239.6 96 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-51904/3-A

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**Matrix: Solid** 

Analysis Batch: 52044									
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	246.4		mg/Kg		99	90 - 110	3	20

**Eurofins Carlsbad** 

**Prep Type: Soluble** 

**Prep Type: Soluble** 

# **QC Sample Results**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley

Job ID: 890-4554-1

SDG: KH227027

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-4554-8 MS Client Sample ID: F-E-SW2 **Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 52044

Sample Sample Spike MS MS %Rec Added Result Qualifier Result Qualifier Analyte Unit D %Rec Limits Chloride 234 252 505.6 mg/Kg 108 90 - 110

Lab Sample ID: 890-4554-8 MSD Client Sample ID: F-E-SW2 **Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 52044

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	234		252	507.4	-	mg/Kg		109	90 - 110	0	20

# **QC Association Summary**

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

Job ID: 890-4554-1 SDG: KH227027

**GC VOA** 

Prep Batch: 51847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4554-1	F-FS01	Total/NA	Solid	5035	
890-4554-2	F-FS05	Total/NA	Solid	5035	
890-4554-3	F-FS02	Total/NA	Solid	5035	
890-4554-4	F-FS03	Total/NA	Solid	5035	
890-4554-5	F-FS04	Total/NA	Solid	5035	
890-4554-6	F-N-SW1	Total/NA	Solid	5035	
890-4554-7	F-E-SW1	Total/NA	Solid	5035	
890-4554-8	F-E-SW2	Total/NA	Solid	5035	
890-4554-9	F-W-SW1	Total/NA	Solid	5035	
890-4554-10	F-W-SW2	Total/NA	Solid	5035	
890-4554-11	F-S-SW1	Total/NA	Solid	5035	
MB 880-51847/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-51847/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-51847/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 51919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4554-1	F-FS01	Total/NA	Solid	8021B	51847
890-4554-2	F-FS05	Total/NA	Solid	8021B	51847
890-4554-3	F-FS02	Total/NA	Solid	8021B	51847
890-4554-4	F-FS03	Total/NA	Solid	8021B	51847
890-4554-5	F-FS04	Total/NA	Solid	8021B	51847
890-4554-6	F-N-SW1	Total/NA	Solid	8021B	51847
890-4554-7	F-E-SW1	Total/NA	Solid	8021B	51847
890-4554-8	F-E-SW2	Total/NA	Solid	8021B	51847
890-4554-9	F-W-SW1	Total/NA	Solid	8021B	51847
890-4554-10	F-W-SW2	Total/NA	Solid	8021B	51847
890-4554-11	F-S-SW1	Total/NA	Solid	8021B	51847
MB 880-51847/5-A	Method Blank	Total/NA	Solid	8021B	51847
MB 880-51922/5-A	Method Blank	Total/NA	Solid	8021B	51922
LCS 880-51847/1-A	Lab Control Sample	Total/NA	Solid	8021B	51847
LCSD 880-51847/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	51847

Prep Batch: 51922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-51922/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 52025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4554-1	F-FS01	Total/NA	Solid	Total BTEX	
890-4554-2	F-FS05	Total/NA	Solid	Total BTEX	
890-4554-3	F-FS02	Total/NA	Solid	Total BTEX	
890-4554-4	F-FS03	Total/NA	Solid	Total BTEX	
890-4554-5	F-FS04	Total/NA	Solid	Total BTEX	
890-4554-6	F-N-SW1	Total/NA	Solid	Total BTEX	
890-4554-7	F-E-SW1	Total/NA	Solid	Total BTEX	
890-4554-8	F-E-SW2	Total/NA	Solid	Total BTEX	
890-4554-9	F-W-SW1	Total/NA	Solid	Total BTEX	
890-4554-10	F-W-SW2	Total/NA	Solid	Total BTEX	
890-4554-11	F-S-SW1	Total/NA	Solid	Total BTEX	

# **QC Association Summary**

Client: Terracon Consulting Eng & Scientists

Job ID: 890-4554-1 Project/Site: Mobley SDG: KH227027

## GC Semi VOA

## Analysis Batch: 51822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4554-1	F-FS01	Total/NA	Solid	8015B NM	51837
890-4554-2	F-FS05	Total/NA	Solid	8015B NM	51837
890-4554-3	F-FS02	Total/NA	Solid	8015B NM	51837
890-4554-4	F-FS03	Total/NA	Solid	8015B NM	51837
890-4554-5	F-FS04	Total/NA	Solid	8015B NM	51837
890-4554-6	F-N-SW1	Total/NA	Solid	8015B NM	51837
890-4554-7	F-E-SW1	Total/NA	Solid	8015B NM	51837
890-4554-8	F-E-SW2	Total/NA	Solid	8015B NM	51837
890-4554-9	F-W-SW1	Total/NA	Solid	8015B NM	51837
890-4554-10	F-W-SW2	Total/NA	Solid	8015B NM	51837
MB 880-51837/1-A	Method Blank	Total/NA	Solid	8015B NM	51837
LCS 880-51837/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	51837
LCSD 880-51837/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	51837

#### Analysis Batch: 51824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4554-11	F-S-SW1	Total/NA	Solid	8015B NM	51848
MB 880-51848/1-A	Method Blank	Total/NA	Solid	8015B NM	51848
LCS 880-51848/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	51848
LCSD 880-51848/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	51848
890-4554-11 MS	F-S-SW1	Total/NA	Solid	8015B NM	51848
890-4554-11 MSD	F-S-SW1	Total/NA	Solid	8015B NM	51848

## Prep Batch: 51837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4554-1	F-FS01	Total/NA	Solid	8015NM Prep	
890-4554-2	F-FS05	Total/NA	Solid	8015NM Prep	
890-4554-3	F-FS02	Total/NA	Solid	8015NM Prep	
890-4554-4	F-FS03	Total/NA	Solid	8015NM Prep	
890-4554-5	F-FS04	Total/NA	Solid	8015NM Prep	
890-4554-6	F-N-SW1	Total/NA	Solid	8015NM Prep	
890-4554-7	F-E-SW1	Total/NA	Solid	8015NM Prep	
890-4554-8	F-E-SW2	Total/NA	Solid	8015NM Prep	
890-4554-9	F-W-SW1	Total/NA	Solid	8015NM Prep	
890-4554-10	F-W-SW2	Total/NA	Solid	8015NM Prep	
MB 880-51837/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-51837/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-51837/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

## Prep Batch: 51848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4554-11	F-S-SW1	Total/NA	Solid	8015NM Prep	
MB 880-51848/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-51848/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-51848/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4554-11 MS	F-S-SW1	Total/NA	Solid	8015NM Prep	
890-4554-11 MSD	F-S-SW1	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 51933

Released to Imaging: 6/10/2025 2:35:50 PM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4554-1	F-FS01	Total/NA	Solid	8015 NM	

# **QC Association Summary**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley

Job ID: 890-4554-1 SDG: KH227027

## GC Semi VOA (Continued)

## **Analysis Batch: 51933 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4554-2	F-FS05	Total/NA	Solid	8015 NM	
890-4554-3	F-FS02	Total/NA	Solid	8015 NM	
890-4554-4	F-FS03	Total/NA	Solid	8015 NM	
890-4554-5	F-FS04	Total/NA	Solid	8015 NM	
890-4554-6	F-N-SW1	Total/NA	Solid	8015 NM	
890-4554-7	F-E-SW1	Total/NA	Solid	8015 NM	
890-4554-8	F-E-SW2	Total/NA	Solid	8015 NM	
890-4554-9	F-W-SW1	Total/NA	Solid	8015 NM	
890-4554-10	F-W-SW2	Total/NA	Solid	8015 NM	
890-4554-11	F-S-SW1	Total/NA	Solid	8015 NM	

## **HPLC/IC**

#### Leach Batch: 51904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4554-1	F-FS01	Soluble	Solid	DI Leach	
890-4554-2	F-FS05	Soluble	Solid	DI Leach	
890-4554-3	F-FS02	Soluble	Solid	DI Leach	
890-4554-4	F-FS03	Soluble	Solid	DI Leach	
890-4554-5	F-FS04	Soluble	Solid	DI Leach	
890-4554-6	F-N-SW1	Soluble	Solid	DI Leach	
890-4554-7	F-E-SW1	Soluble	Solid	DI Leach	
890-4554-8	F-E-SW2	Soluble	Solid	DI Leach	
890-4554-9	F-W-SW1	Soluble	Solid	DI Leach	
890-4554-10	F-W-SW2	Soluble	Solid	DI Leach	
890-4554-11	F-S-SW1	Soluble	Solid	DI Leach	
MB 880-51904/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-51904/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-51904/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4554-8 MS	F-E-SW2	Soluble	Solid	DI Leach	
890-4554-8 MSD	F-E-SW2	Soluble	Solid	DI Leach	

#### Analysis Batch: 52044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4554-1	F-FS01	Soluble	Solid	300.0	51904
890-4554-2	F-FS05	Soluble	Solid	300.0	51904
890-4554-3	F-FS02	Soluble	Solid	300.0	51904
890-4554-4	F-FS03	Soluble	Solid	300.0	51904
890-4554-5	F-FS04	Soluble	Solid	300.0	51904
890-4554-6	F-N-SW1	Soluble	Solid	300.0	51904
890-4554-7	F-E-SW1	Soluble	Solid	300.0	51904
890-4554-8	F-E-SW2	Soluble	Solid	300.0	51904
890-4554-9	F-W-SW1	Soluble	Solid	300.0	51904
890-4554-10	F-W-SW2	Soluble	Solid	300.0	51904
890-4554-11	F-S-SW1	Soluble	Solid	300.0	51904
MB 880-51904/1-A	Method Blank	Soluble	Solid	300.0	51904
LCS 880-51904/2-A	Lab Control Sample	Soluble	Solid	300.0	51904
LCSD 880-51904/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	51904
890-4554-8 MS	F-E-SW2	Soluble	Solid	300.0	51904
890-4554-8 MSD	F-E-SW2	Soluble	Solid	300.0	51904

Project/Site: Mobley

Job ID: 890-4554-1 SDG: KH227027

Client Sample ID: F-FS01

Date Collected: 04/20/23 11:10 Date Received: 04/20/23 14:40

Lab Sample ID: 890-4554-1 **Matrix: Solid** 

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 Total/NA Prep 5.02 g 5 mL 51847 04/24/23 12:25 MNR **EET MID** 8021B Total/NA Analysis 1 5 mL 5 mL 51919 04/25/23 23:39 MNR **EET MID** Total/NA Analysis Total BTEX 52025 04/26/23 10:45 SM **EET MID** Total/NA 8015 NM 51933 **EET MID** Analysis 1 04/25/23 12:25 SM Total/NA 8015NM Prep 51837 04/24/23 11:06 EET MID Prep 10.02 g 10 mL A.I Total/NA Analysis 8015B NM 1 uL 1 uL 51822 04/24/23 17:43 SM **EET MID** Soluble DI Leach 4.97 g 50 mL 51904 04/25/23 07:41 KS EET MID Leach Soluble Analysis 300.0 50 mL 50 mL 52044 04/26/23 12:40 SMC **EET MID** 

Client Sample ID: F-FS05 Lab Sample ID: 890-4554-2 Date Collected: 04/20/23 11:30

Date Received: 04/20/23 14:40

**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			5.03 g	5 mL	51847	04/24/23 12:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51919	04/25/23 23:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52025	04/26/23 10:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			51933	04/25/23 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	51837	04/24/23 11:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51822	04/24/23 18:06	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	51904	04/25/23 07:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52044	04/26/23 12:44	SMC	EET MID

Lab Sample ID: 890-4554-3 Client Sample ID: F-FS02 Date Collected: 04/20/23 11:43 **Matrix: Solid** 

Date Received: 04/20/23 14:40

	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	51847	04/24/23 12:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51919	04/26/23 00:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52025	04/26/23 10:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			51933	04/25/23 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	51837	04/24/23 11:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51822	04/24/23 18:28	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	51904	04/25/23 07:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52044	04/26/23 12:58	SMC	EET MID

Client Sample ID: F-FS03 Lab Sample ID: 890-4554-4

Date Collected: 04/20/23 11:50 Date Received: 04/20/23 14:40

	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	51847	04/24/23 12:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51919	04/26/23 00:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52025	04/26/23 10:45	SM	EET MID

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**Matrix: Solid** 

Page 26 of 36

Job ID: 890-4554-1 SDG: KH227027

**Client Sample ID: F-FS03** 

Date Collected: 04/20/23 11:50 Date Received: 04/20/23 14:40 Lab Sample ID: 890-4554-4

Matrix: Solid

	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			51933	04/25/23 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	51837	04/24/23 11:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51822	04/24/23 18:50	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	51904	04/25/23 07:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52044	04/26/23 13:03	SMC	EET MID

Client Sample ID: F-FS04 Lab Sample ID: 890-4554-5 Date Collected: 04/20/23 11:57

Date Received: 04/20/23 14:40

**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			5.02 g	5 mL	51847	04/24/23 12:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51919	04/26/23 01:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52025	04/26/23 10:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			51933	04/25/23 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	51837	04/24/23 11:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51822	04/24/23 19:11	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	51904	04/25/23 07:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52044	04/26/23 13:07	SMC	EET MID

Client Sample ID: F-N-SW1 Lab Sample ID: 890-4554-6

Date Collected: 04/20/23 12:53 Date Received: 04/20/23 14:40

**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			5.03 g	5 mL	51847	04/24/23 12:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51919	04/26/23 02:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52025	04/26/23 10:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			51933	04/25/23 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	51837	04/24/23 11:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51822	04/25/23 06:47	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	51904	04/25/23 07:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52044	04/26/23 13:12	SMC	EET MID

Client Sample ID: F-E-SW1 Lab Sample ID: 890-4554-7

Date Collected: 04/20/23 12:53 Date Received: 04/20/23 14:40

_	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 mL	51847	04/24/23 12:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51919	04/26/23 02:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52025	04/26/23 10:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			51933	04/25/23 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	51837	04/24/23 11:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51822	04/25/23 07:09	SM	EET MID

**Eurofins Carlsbad** 

**Matrix: Solid** 

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley

Job ID: 890-4554-1 SDG: KH227027

Client Sample ID: F-E-SW1
Date Collected: 04/20/23 12:53

Lab Sample ID: 890-4554-7

Date Received: 04/20/23 14:40

. Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	51904	04/25/23 07:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52044	04/26/23 13:16	SMC	EET MID

Lab Sample ID: 890-4554-8

Client Sample ID: F-E-SW2
Date Collected: 04/20/23 13:07
Date Received: 04/20/23 14:40

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			4.97 g	5 mL	51847	04/24/23 12:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51919	04/26/23 03:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52025	04/26/23 10:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			51933	04/25/23 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	51837	04/24/23 11:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51822	04/25/23 07:31	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	51904	04/25/23 07:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52044	04/26/23 13:21	SMC	EET MID

Lab Sample ID: 890-4554-9

Client Sample ID: F-W-SW1
Date Collected: 04/20/23 13:09

Matrix: Solid

**Matrix: Solid** 

Date Received: 04/20/23 14:40

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	51847	04/24/23 12:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51919	04/26/23 03:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52025	04/26/23 10:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			51933	04/25/23 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	51837	04/24/23 11:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51822	04/25/23 07:52	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	51904	04/25/23 07:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52044	04/26/23 13:34	SMC	EET MID

Client Sample ID: F-W-SW2 Lab Sample ID: 890-4554-10

Date Collected: 04/20/23 13:15 Date Received: 04/20/23 14:40

	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	51847	04/24/23 12:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51919	04/26/23 03:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52025	04/26/23 10:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			51933	04/25/23 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	51837	04/24/23 11:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51822	04/25/23 08:14	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	51904	04/25/23 07:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52044	04/26/23 13:39	SMC	EET MID

#### **Lab Chronicle**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley

Job ID: 890-4554-1 SDG: KH227027

Client Sample ID: F-S-SW1

Lab Sample ID: 890-4554-11

Date Collected: 04/20/23 13:19 Date Received: 04/20/23 14:40

	I	/latrix: S	olid

	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	51847	04/24/23 12:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51919	04/26/23 04:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52025	04/26/23 10:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			51933	04/25/23 10:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	51848	04/24/23 12:29	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51824	04/24/23 16:36	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	51904	04/25/23 07:41	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52044	04/26/23 13:53	SMC	EET MID

Laboratory References:

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

Eurofins Carlsbad

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# **Accreditation/Certification Summary**

Client: Terracon Consulting Eng & Scientists

Job ID: 890-4554-1 Project/Site: Mobley SDG: KH227027

#### **Laboratory: Eurofins Midland**

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

Authority	Pi	rogram	Identification Number	Expiration Date					
Texas	N	NELAP T104704400-22-25 06-30-23							
The following analytes the agency does not of	' '	ut the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for wh					
Analysis Method	Prep Method	Matrix	Analyte						
8015 NM		Solid	Total TPH						

### **Method Summary**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley

Job ID: 890-4554-1 SDG: KH227027

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
3015NM Prep	Microextraction	SW846	EET MID
Ol Leach	Deionized Water Leaching Procedure	ASTM	EET MID

#### **Protocol References:**

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

#### Laboratory References:

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

**Eurofins Carlsbad** 

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11

### **Sample Summary**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley

Job ID: 890-4554-1 SDG: KH227027

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4554-1	F-FS01	Solid	04/20/23 11:10	04/20/23 14:40	2'
890-4554-2	F-FS05	Solid	04/20/23 11:30	04/20/23 14:40	2'
890-4554-3	F-FS02	Solid	04/20/23 11:43	04/20/23 14:40	2'
890-4554-4	F-FS03	Solid	04/20/23 11:50	04/20/23 14:40	2'
890-4554-5	F-FS04	Solid	04/20/23 11:57	04/20/23 14:40	2'
890-4554-6	F-N-SW1	Solid	04/20/23 12:53	04/20/23 14:40	0-2
890-4554-7	F-E-SW1	Solid	04/20/23 12:53	04/20/23 14:40	0-2
890-4554-8	F-E-SW2	Solid	04/20/23 13:07	04/20/23 14:40	0-2
890-4554-9	F-W-SW1	Solid	04/20/23 13:09	04/20/23 14:40	0-2
890-4554-10	F-W-SW2	Solid	04/20/23 13:15	04/20/23 14:40	0-2
890-4554-11	F-S-SW1	Solid	04/20/23 13:19	04/20/23 14:40	0-2

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Relinquished by: (Signature

eceived by: (Signature)

4.20.23 Date/Time

OHE/

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Circle Method(s) and Metal(s) to be analyzed

of service, Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control

TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U

Hg: 1631 / 245.1 / 7470 / 7471

FEurofins Xerco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated otice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions is serviced.

F' E - 3W1 1:07 1:08 X	SW/1	7 7 1347	-	F-N-SWI 12:530-2 1 88 X	F-FS04 11:57 1 8 8 X	F- FS03 11:50 8 8	F- FS 02 11-43 1-800	F-F505 11:30 1118 800	F-FSO1 3 4/20 11:10 21 C1 XXX	Sample Identification  Matrix  Date  Time Sampled  Sampled  Depth Comp Comp Cont  Figure  Grab/ # of Comp Cont  Figure  Figure  Grab/ # of Comp Cont  Figure  Figure	Total Containers: Corrected Temperature: 11. O	Sample Custody Seals: Yes No W/A Temperature Reading: 11 , Q	Yes No NA Correction Factor:	Thermometer ID: 10 Magazina aram	SAMPLE RECEIPT Temp Blank: Cyes No Wet Ice: Uses No tel	the lab, if received by 4:30pm	Sampler's Name: TAT starts the day received by	Due Date:	Per: KH2727 27 Deport	Project Name: Mobile ANALYSIS REQUEST	Phone: Email: Deliver	City, State ZIP: Carl Shad, MM 88220City, State ZIP: Report	2 4518 W. P. C. Address:	Company Name: Company Name: Progra	Project Manager: Sus Sussess Bill to: (if different)	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300  Environment Testing  Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334  Years	
										Sample Comments	NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH: Zn	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>	NaHSO 4: NABIS	н <sub>3</sub> PO <sub>4</sub> : НР	H₂SO₄; H₂ NaOH: Na		Cool: Cool MeOH: Me	None: NO DI Water: H <sub>2</sub> O	SIS REQUEST Preservative Codes	Deliverables: EDD ADaPT Other:	Reporting: Level III Level III PST/UST TRRP Level IV	]	Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund [	Work Order Comments	www.xenco.com Page of	Work Order No:	

Phone:

# Chain of Custody

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Resting		nditions control usly negotiated.	subcontractors. It assigns standard terms and co such losses are due to circumstances beyond the yzed. These terms will be enforced unless previous	Eurofins Xenco, its affiliates and s penses incurred by the client if s to Eurofins Xenco, but not analy	r from client company to sibility for any losses or ex or each sample submitted	es constitutes a valid purchase orde les and shall not assume any respoi o each project and a charge of \$5 (	ocument and relinquishment of sample will be liable only for the cost of sample mum charge of \$85.00 will be applied to	ice: Signature of this dervice. Eurofins Xenco
Renco   Repart   Restrict   Repart   Restrict   Repart   Repart	U V Zn /7471	Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Tl Sn U Tl U Hg: 1631/245.1/7470/	Ca Cr Co Cu Fe Pb Mg Mn Cr Co Cu Pb Mn Mo Ni Se Ag	Sb As Ba Be B Cd Sb As Ba Be Cd C	M Texas 11 Al LP 6010 : 8RCR/	8RCR	010 200.8 / 6020: ) and Metal(s) to be anal	Total 200.7 / 60 rcle Method(s
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#### **Login Sample Receipt Checklist**

Client: Terracon Consulting Eng & Scientists

Job Number: 890-4554-1

SDG Number: KH227027

Login Number: 4554 List Source: Eurofins Carlsbad

List Number: 1

Creator: Stutzman, Amanda

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.	N/A	Refer to Job Narrative for details.
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	

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#### **Login Sample Receipt Checklist**

Client: Terracon Consulting Eng & Scientists

Job Number: 890-4554-1

SDG Number: KH227027

Login Number: 4554 **List Source: Eurofins Midland** List Number: 2 List Creation: 04/24/23 09:11 AM

Creator: Rodriguez, Leticia

<6mm (1/4").

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	

N/A

Containers requiring zero headspace have no headspace or bubble is

**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Joseph Guesnier Terracon Consulting Eng & Scientists 5847 50th St Lubbock, Texas 79424

Generated 8/7/2023 1:31:09 PM Revision 1

# **JOB DESCRIPTION**

Mobley SDG NUMBER KH227027

# **JOB NUMBER**

890-4988-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



# **Eurofins Carlsbad**

#### **Job Notes**

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

### **Authorization**

Generated 8/7/2023 1:31:09 PM Revision 1

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Released to Imaging: 6/10/2025 2:35:50 PM Page 2 of 28

1

3

4

6

7

8

4.0

11

12

13

# **Eurofins Carlsbad**

# **Compliance Statement**

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

#### Coliform MCLs

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

#### Warranties, Terms, and Conditions

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

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

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

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

H = field staff performs tests under NJ NELAP certification #PA093, PA NELAP certification # 46-05499

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

MRAMER

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6

7

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11

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

Laboratory Job ID: 890-4988-1 SDG: KH227027

# **Table of Contents**

1
4
5
6
7
13
14
17
20
23
24
25
26
27

3

Л

5

7

0

10

12

13

#### **Definitions/Glossary**

Client: Terracon Consulting Eng & Scientists Job ID: 890-4988-1 Project/Site: Mobley

SDG: KH227027

**Qualifiers** 

**GC VOA** Qualifier **Qualifier Description** 

LCS and/or LCSD is outside acceptance limits, high biased. S1+ Surrogate recovery exceeds control limits, high biased. U Indicates the analyte was analyzed for but not detected.

**GC Semi VOA** 

Qualifier **Qualifier Description** 

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) DL

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) Minimum Detectable Concentration (Radiochemistry) MDC

MDL Method Detection Limit Minimum Level (Dioxin) ML MPN Most Probable Number Method Quantitation Limit MQL

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

**Practical Quantitation Limit PQL** 

**PRES** Presumptive QC **Quality Control** 

**RER** Relative Error Ratio (Radiochemistry)

RI 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

Job ID: 890-4988-1 SDG: KH227027 Project/Site: Mobley

Job ID: 890-4988-1

**Laboratory: Eurofins Carlsbad** 

Narrative

Job Narrative 890-4988-1

#### REVISION

The report being provided is a revision of the original report sent on 8/7/2023. The report (revision 1) is being revised due to Per client email, requesting project ID correction.

#### Receipt

The samples were received on 7/24/2023 4:48 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 11.0°C

#### Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: W-SW-05.1 (890-4988-1), FS-15.1 (890-4988-2), FS-10.1 (890-4988-3), W-SW-04.1 (890-4988-4), FS-09.1 (890-4988-5), FS-08.1 (890-4988-6) and W-SW-03.1 (890-4988-7).

#### GC VOA

Method 8021B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 880-58791 and analytical batch 880-58782 recovered outside control limits for the following analytes: Ethylbenzene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-58782 recovered above the upper control limit for Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: (CCV 880-58782/33), (CCV 880-58782/51) and (CCV 880-58782/64).

Method 8021B: Surrogate recovery for the following samples were outside control limits: W-SW-05.1 (890-4988-1), FS-15.1 (890-4988-2), FS-10.1 (890-4988-3), W-SW-04.1 (890-4988-4), FS-09.1 (890-4988-5), FS-08.1 (890-4988-6), W-SW-03.1 (890-4988-7), (LCS 880-58791/1-A), (LCSD 880-58791/2-A), (880-31081-A-8-D), (880-31081-A-8-B MS) and (880-31081-A-8-C MSD). Evidence of matrix interferences is not obvious.

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

#### GC Semi VOA

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

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

## **Client Sample Results**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley

Client Sample ID: W-SW-05.1 Date Collected: 07/24/23 13:50

Date Received: 07/24/23 16:48

Sample Depth: 0 - 5

Job ID: 890-4988-1 SDG: KH227027

Lab Sample ID: 890-4988-1

08/03/23 09:19 08/04/23 20:51

**Matrix: Solid** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/29/23 16:20	07/30/23 10:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/29/23 16:20	07/30/23 10:42	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		07/29/23 16:20	07/30/23 10:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/29/23 16:20	07/30/23 10:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/29/23 16:20	07/30/23 10:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/29/23 16:20	07/30/23 10:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	160	S1+	70 - 130				07/29/23 16:20	07/30/23 10:42	1
1,4-Difluorobenzene (Surr)	80		70 - 130				07/29/23 16:20	07/30/23 10:42	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg	<del></del>		07/31/23 14:05	1

Method: SW646 6015 NM - Dieser Range Organics (DRO) (GC)										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Total TPH	<49.5	U	49.5		mg/Kg			08/07/23 09:40	1

Method: SW846 8015B NM - D	Diesel Range	<b>Organics</b>	(DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.5	U	49.5		mg/Kg		08/03/23 09:19	08/04/23 20:51	1
Diesel Range Organics (Over C10-C28)	<49.5	U	49.5		mg/Kg		08/03/23 09:19	08/04/23 20:51	1
Oll Range Organics (Over C28-C36)	<49.5	U	49.5		mg/Kg		08/03/23 09:19	08/04/23 20:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				08/03/23 09:19	08/04/23 20:51	1

Method: EPA 300.0 - Anions, I	on Chromat	ography -	Soluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	759		50.5		mg/Kg			07/27/23 20:44	10

70 - 130

109

Client Sample ID: FS-15.1 Lab Sample ID: 890-4988-2 Date Collected: 07/24/23 13:55 **Matrix: Solid** 

Sample Depth: 5

Date Received: 07/24/23 16:48

o-Terphenyl

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/29/23 16:20	07/30/23 11:09	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/29/23 16:20	07/30/23 11:09	1
Ethylbenzene	<0.00201	U *+	0.00201		mg/Kg		07/29/23 16:20	07/30/23 11:09	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/29/23 16:20	07/30/23 11:09	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		07/29/23 16:20	07/30/23 11:09	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/29/23 16:20	07/30/23 11:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	167	S1+	70 - 130				07/29/23 16:20	07/30/23 11:09	1

Job ID: 890-4988-1

SDG: KH227027

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley

Client Sample ID: FS-15.1 Lab Sample ID: 890-4988-2 Matrix: Solid

Date Collected: 07/24/23 13:55 Date Received: 07/24/23 16:48

Sample Depth: 5

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate %Recovery Qualifier I imits Prepared Analyzed Dil Fac 07/29/23 16:20 07/30/23 11:09 70 - 130 1,4-Difluorobenzene (Surr) 86

**Method: TAL SOP Total BTEX - Total BTEX Calculation** 

Analyte Result Qualifier RLMDL Unit Prepared Analyzed Dil Fac Total BTEX <0.00402 U 0.00402 mg/Kg 07/31/23 14:05

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Result Qualifier **MDL** Unit D Prepared Analyzed Dil Fac Total TPH <50.0 U 50.0 mg/Kg 08/07/23 09:40

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Result Qualifier **MDL** Unit D Dil Fac Analyte Prepared Analyzed <50.0 U 50.0 08/03/23 09:19 08/04/23 21:14 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 08/03/23 09:19 08/04/23 21:14 C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 08/03/23 09:19 08/04/23 21:14 mg/Kg

Dil Fac %Recovery Qualifier Surrogate Limits Prepared Analyzed 1-Chlorooctane 95 70 - 130 08/03/23 09:19 08/04/23 21:14 o-Terphenyl 103 70 - 130 08/03/23 09:19 08/04/23 21:14

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier Analyte RL MDL Unit Prepared Analyzed Dil Fac Chloride 612 50.3 07/27/23 20:51 mg/Kg 10

Client Sample ID: FS-10.1 Lab Sample ID: 890-4988-3

Date Collected: 07/24/23 14:47 Date Received: 07/24/23 16:48

Sample Depth: 5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte Result Qualifier RI **MDL** Unit D Prepared Dil Fac Analyzed Benzene <0.00202 U 0.00202 mg/Kg 07/29/23 16:20 07/30/23 11:35 Toluene <0.00202 U 0.00202 mg/Kg 07/29/23 16:20 07/30/23 11:35 Ethylbenzene <0.00202 U \*+ 0.00202 mg/Kg 07/29/23 16:20 07/30/23 11:35 m-Xylene & p-Xylene <0.00403 U 0.00403 07/29/23 16:20 07/30/23 11:35 mg/Kg o-Xylene <0.00202 U 0.00202 mg/Kg 07/29/23 16:20 07/30/23 11:35 Xylenes, Total <0.00403 U 0.00403 mg/Kg 07/29/23 16:20 07/30/23 11:35 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac

70 - 130 07/30/23 11:35 4-Bromofluorobenzene (Surr) 176 S1+ 07/29/23 16:20 1,4-Difluorobenzene (Surr) 91 70 - 130 07/29/23 16:20 07/30/23 11:35

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared Total BTEX <0.00403 U 0.00403 mg/Kg 07/31/23 14:05

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte Result Qualifier MDL Unit Prepared Analyzed Dil Fac Total TPH <50.3 U 50.3 mg/Kg 08/07/23 09:40

**Eurofins Carlsbad** 

**Matrix: Solid** 

## **Client Sample Results**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley

**Client Sample ID: FS-10.1** Date Collected: 07/24/23 14:47

Date Received: 07/24/23 16:48

Sample Depth: 5

Lab Sample ID: 890-4988-3

Job ID: 890-4988-1

SDG: KH227027

**Matrix: Solid** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		08/03/23 09:19	08/04/23 21:37	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		08/03/23 09:19	08/04/23 21:37	1
Oll Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		08/03/23 09:19	08/04/23 21:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				08/03/23 09:19	08/04/23 21:37	1
o-Terphenyl	113		70 - 130				08/03/23 09:19	08/04/23 21:37	1

5.02

mg/Kg

Client Sample ID: W-SW-04.1

255

Date Collected: 07/24/23 14:50

Date Received: 07/24/23 16:48

Sample Depth: 0 - 5

Chloride

Lab Sample ID: 890-4988-4

07/27/23 21:12

**Matrix: Solid** 

Method: SW846 8021B - Volatile Organic Compounds (GC)

			( /						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/29/23 16:20	07/30/23 12:01	1
Toluene	< 0.00199	U	0.00199		mg/Kg		07/29/23 16:20	07/30/23 12:01	1
Ethylbenzene	< 0.00199	U *+	0.00199		mg/Kg		07/29/23 16:20	07/30/23 12:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		07/29/23 16:20	07/30/23 12:01	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		07/29/23 16:20	07/30/23 12:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/29/23 16:20	07/30/23 12:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared Analy	zed Dil Fac
4-Bromofluorobenzene (Surr)	181	S1+	70 - 130	07/29/23 16:20 07/30/23	3 12:01 1
1,4-Difluorobenzene (Surr)	98		70 - 130	07/29/23 16:20 07/30/23	3 12:01 1

Method: TAL SOP Total BTEX - Total BTEX Calculation										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/31/23 14:05	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Total TPH	<50.4	U	50.4		mg/Kg			08/07/23 09:40	1

Method: SW846 8015B NM - D	Diesel Range	Organics	(DRO) (GC)						
Analyte	_	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		08/03/23 09:19	08/04/23 21:59	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		08/03/23 09:19	08/04/23 21:59	1
Oll Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		08/03/23 09:19	08/04/23 21:59	1
Surrogate	%Recovery	Qualifier	l imits				Prenared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	08/03/23 09:19	08/04/23 21:59	1
o-Terphenyl	106		70 - 130	08/03/23 09:19	08/04/23 21:59	1

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8/7/2023 (Rev. 1)

# **Client Sample Results**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley

Lab Sample ID: 890-4988-4

Client Sample ID: W-SW-04.1 Date Collected: 07/24/23 14:50 Date Received: 07/24/23 16:48

**Matrix: Solid** 

Job ID: 890-4988-1

SDG: KH227027

Sample Depth: 0 - 5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble											
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	981		50.0		mg/Kg			07/27/23 21:19	10		

Lab Sample ID: 890-4988-5 Client Sample ID: FS-09.1

Date Collected: 07/24/23 15:06 Matrix: Solid

Date Received: 07/24/23 16:48

Sample Depth: 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		07/29/23 16:20	07/30/23 12:27	
Toluene	< 0.00200	U	0.00200		mg/Kg		07/29/23 16:20	07/30/23 12:27	
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		07/29/23 16:20	07/30/23 12:27	
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/29/23 16:20	07/30/23 12:27	
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/29/23 16:20	07/30/23 12:27	
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/29/23 16:20	07/30/23 12:27	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	177	S1+	70 - 130				07/29/23 16:20	07/30/23 12:27	
1,4-Difluorobenzene (Surr)	85		70 - 130				07/29/23 16:20	07/30/23 12:27	
Method: TAL SOP Total BTEX	. Total BTE	X Calculat	ion						
				MDI	Unit	D	Prepared	Analyzed	Dil Fa
Analyte	Result	Qualifier	RL	MDL	UIIIL	ט	riepareu	Allalyzeu	Dii i u
Analyte Total BTEX	<0.00401		0.00401	MIDL	mg/Kg		Prepareu	07/31/23 14:05	
	<0.00401	U	0.00401	MDL	mg/Kg		Prepared		
Total BTEX  Method: SW846 8015 NM - Did	<0.00401	Organics ( Qualifier	0.00401 DRO) (GC)		mg/Kg		<u> </u>	07/31/23 14:05	
Total BTEX  Method: SW846 8015 NM - Did Analyte  Total TPH	<0.00401 esel Range Result <50.0	Organics ( Qualifier	0.00401  DRO) (GC) RL 50.0		mg/Kg Unit		<u> </u>	07/31/23 14:05  Analyzed	
Total BTEX  Method: SW846 8015 NM - Did Analyte	<0.00401 esel Range Result <50.0 Diesel Range	Organics ( Qualifier	0.00401  DRO) (GC) RL 50.0		mg/Kg  Unit mg/Kg		<u> </u>	07/31/23 14:05  Analyzed	Dil Fa
Total BTEX  Method: SW846 8015 NM - Did Analyte  Total TPH  Method: SW846 8015B NM - Did	<0.00401 esel Range Result <50.0 Diesel Range	Organics ( Qualifier U Organics Qualifier Qualifier	0.00401  DRO) (GC) RL 50.0  (DRO) (GC)	MDL	mg/Kg  Unit mg/Kg	<u>D</u>	Prepared	07/31/23 14:05  Analyzed 08/07/23 09:40	Dil Fa
Total BTEX  Method: SW846 8015 NM - Did Analyte  Total TPH  Method: SW846 8015B NM - Did Analyte  Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<0.00401 esel Range Result <50.0 Diesel Range Result	Organics ( Qualifier U  Organics Qualifier U	0.00401  DRO) (GC) RL 50.0  (DRO) (GC) RL	MDL	mg/Kg  Unit mg/Kg  Unit	<u>D</u>	Prepared Prepared	07/31/23 14:05  Analyzed 08/07/23 09:40  Analyzed 08/04/23 22:21	Dil Fa
Total BTEX  Method: SW846 8015 NM - Did Analyte  Total TPH  Method: SW846 8015B NM - Did Analyte  Gasoline Range Organics (GRO)-C6-C10	<0.00401 esel Range Result <50.0 Diesel Range Result <50.0	Organics ( Qualifier U  Organics Qualifier U	0.00401  DRO) (GC) RL 50.0  (DRO) (GC) RL 50.0	MDL	mg/Kg  Unit mg/Kg  Unit mg/Kg	<u>D</u>	Prepared  Prepared  08/03/23 09:19	07/31/23 14:05  Analyzed 08/07/23 09:40  Analyzed 08/04/23 22:21 08/04/23 22:21	Dil Fa
Total BTEX  Method: SW846 8015 NM - Did Analyte  Total TPH  Method: SW846 8015B NM - Did Analyte  Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<0.00401 esel Range Result <50.0 Diesel Range Result <50.0 <50.0	Organics ( Qualifier U Organics Qualifier U Organics Qualifier U U	0.00401  DRO) (GC) RL 50.0  (DRO) (GC) RL 50.0  50.0	MDL	mg/Kg  Unit mg/Kg  Unit mg/Kg  mg/Kg  mg/Kg	<u>D</u>	Prepared  Prepared  08/03/23 09:19  08/03/23 09:19	07/31/23 14:05  Analyzed 08/07/23 09:40  Analyzed 08/04/23 22:21 08/04/23 22:21	Dil Fa
Total BTEX  Method: SW846 8015 NM - Did Analyte  Total TPH  Method: SW846 8015B NM - Did Analyte  Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<0.00401 esel Range Result <50.0 Diesel Range Result <50.0 <50.0 <50.0	Organics ( Qualifier U Organics Qualifier U Organics Qualifier U U	0.00401  DRO) (GC) RL 50.0  (DRO) (GC) RL 50.0  50.0  50.0	MDL	mg/Kg  Unit mg/Kg  Unit mg/Kg  mg/Kg  mg/Kg	<u>D</u>	Prepared  Prepared  08/03/23 09:19  08/03/23 09:19  08/03/23 09:19	07/31/23 14:05  Analyzed 08/07/23 09:40  Analyzed 08/04/23 22:21 08/04/23 22:21	Dil Fac

**Eurofins Carlsbad** 

Analyzed

07/27/23 21:25

Dil Fac

RL

4.98

**MDL** Unit

mg/Kg

D

Prepared

Analyte

**Chloride** 

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley

Lab Sample ID: 890-4988-6

Client Sample ID: FS-08.1
Date Collected: 07/24/23 15:20
Date Received: 07/24/23 16:48

Matrix: Solid

Job ID: 890-4988-1

SDG: KH227027

Sample Depth: 5

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		07/29/23 16:20	07/30/23 14:12	1
Toluene	<0.00201	U	0.00201	mg/Kg		07/29/23 16:20	07/30/23 14:12	1
Ethylbenzene	<0.00201	U *+	0.00201	mg/Kg		07/29/23 16:20	07/30/23 14:12	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		07/29/23 16:20	07/30/23 14:12	1
o-Xylene	< 0.00201	U	0.00201	mg/Kg		07/29/23 16:20	07/30/23 14:12	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		07/29/23 16:20	07/30/23 14:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	152	S1+	70 - 130			07/29/23 16:20	07/30/23 14:12	1
1,4-Difluorobenzene (Surr)	79		70 - 130			07/29/23 16:20	07/30/23 14:12	1

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fa
Total BTEX <0.00402 U 0.00402 mg/Kg 07/31/23 14:05

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)AnalyteResultQualifierRLMDLUnitDPreparedAnalyzedDil FacTotal TPH<49.6</td>U49.6mg/Kg08/07/23 09:401

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier **MDL** Unit Analyte RL D Prepared Analyzed Dil Fac <49.6 U Gasoline Range Organics 49.6 08/03/23 09:19 08/04/23 22:43 mg/Kg (GRO)-C6-C10 <49.6 U Diesel Range Organics (Over 49.6 mg/Kg 08/03/23 09:19 08/04/23 22:43 C10-C28) Oll Range Organics (Over C28-C36) <49.6 U 49.6 08/03/23 09:19 08/04/23 22:43 mg/Kg

 Surrogate
 %Recovery 1-Chlorooctane
 Qualifier 2-Chlorooctane
 Limits 70 - 130
 Prepared 08/03/23 09:19
 Analyzed 08/04/23 22:43
 Dil Fac 08/03/23 09:19

 o-Terphenyl
 107
 70 - 130
 08/03/23 09:19
 08/04/23 22:43
 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac

Chloride 282 4.96 mg/Kg 07/27/23 21:32 1

Client Sample ID: W-SW-03.1

Date Collected: 07/24/23 15:25

Date Received: 07/24/23 16:48

Lab Sample ID: 890-4988-7 Matrix: Solid

Sample Depth: 0 - 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/29/23 16:20	07/30/23 14:38	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/29/23 16:20	07/30/23 14:38	1
Ethylbenzene	<0.00198	U *+	0.00198		mg/Kg		07/29/23 16:20	07/30/23 14:38	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		07/29/23 16:20	07/30/23 14:38	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/29/23 16:20	07/30/23 14:38	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		07/29/23 16:20	07/30/23 14:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	178	S1+	70 - 130				07/29/23 16:20	07/30/23 14:38	1

**Eurofins Carlsbad** 

3

7

0

10

12

Job ID: 890-4988-1

# **Client Sample Results**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley SDG: KH227027

Client Sample ID: W-SW-03.1 Lab Sample ID: 890-4988-7 Date Collected: 07/24/23 15:25 Matrix: Solid

Date Received: 07/24/23 16:48 Sample Depth: 0 - 5

Surrogate	%Recovery Qual	lifier Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	85	70 - 130	07/29/23 16:20	07/30/23 14:38	1

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00396	U	0.00396	mg/Kg			07/31/23 14:05	1

Method: SW846	8015 NM	- Diesel Ran	de Ordanics	(DRO)	(GC)
Method. 344040	OU I S I VIVI	- Diesei Kaii	ge Organics	(DICO)	(90)

Analyte	Result C	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4 I	I	50.4	ma/K	n _		08/07/23 09:40	

Method: SW846 8015B NM - Diesel Range	<b>Organics</b>	(DRO)	(GC)
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mothod: Offorto ourob itm	Diocol Italig	, organioc							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		08/03/23 09:19	08/04/23 23:05	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		08/03/23 09:19	08/04/23 23:05	1
Oll Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		08/03/23 09:19	08/04/23 23:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	08/03/23 09:19	08/04/23 23:05	1
o-Terphenyl	111		70 - 130	08/03/23 09:19	08/04/23 23:05	1

Method: EPA 300.0	<ul> <li>Anions, Ion Chromatography</li> </ul>	- Soluble
A a last a	D	D.

Analyte	Result Qua	alifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	259	5.02	mg/Kg			07/27/23 21:39	1

## **Surrogate Summary**

Client: Terracon Consulting Eng & Scientists

Job ID: 890-4988-1 Project/Site: Mobley SDG: KH227027

Method: 8021B - Volatile Organic Compounds (GC)

**Matrix: Solid Prep Type: Total/NA** 

			Percent Surrogate Recovery (A	cceptance Limits)
		BFB1	FBZ1	
Lab Sample ID	Client Sample ID	(70-130)	<b>'</b> 0-130)	
890-4988-1	W-SW-05.1	160 S1+	80	
890-4988-2	FS-15.1	167 S1+	86	
890-4988-3	FS-10.1	176 S1+	91	
890-4988-4	W-SW-04.1	181 S1+	98	
890-4988-5	FS-09.1	177 S1+	85	
890-4988-6	FS-08.1	152 S1+	79	
890-4988-7	W-SW-03.1	178 S1+	85	
LCS 880-58791/1-A	Lab Control Sample	158 S1+	106	
LCSD 880-58791/2-A	Lab Control Sample Dup	142 S1+	87	
MB 880-58735/5-A	Method Blank	79	82	
MB 880-58791/5-A	Method Blank	90	78	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

**Matrix: Solid** Prep Type: Total/NA

				Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4988-1	W-SW-05.1	99	109	
890-4988-2	FS-15.1	95	103	
890-4988-3	FS-10.1	103	113	
890-4988-4	W-SW-04.1	98	106	
890-4988-5	FS-09.1	106	116	
890-4988-6	FS-08.1	96	107	
890-4988-7	W-SW-03.1	100	111	
LCS 880-59184/2-A	Lab Control Sample	94	96	
LCSD 880-59184/3-A	Lab Control Sample Dup	84	84	
MB 880-59184/1-A	Method Blank	81	90	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

# **QC Sample Results**

Client: Terracon Consulting Eng & Scientists

Job ID: 890-4988-1 Project/Site: Mobley

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-58735/5-A

**Matrix: Solid** 

**Analysis Batch: 58782** 

**Client Sample ID: Method Blank** 

**Prep Type: Total/NA** 

Prep Batch: 58735

SDG: KH227027

	MB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/28/23 13:24	07/29/23 18:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/28/23 13:24	07/29/23 18:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/28/23 13:24	07/29/23 18:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/28/23 13:24	07/29/23 18:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/28/23 13:24	07/29/23 18:51	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/28/23 13:24	07/29/23 18:51	1

MB MB

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130	07/28/23 13:24	07/29/23 18:51	1
1,4-Difluorobenzene (Surr)	82		70 - 130	07/28/23 13:24	07/29/23 18:51	1

Lab Sample ID: MB 880-58791/5-A

Matrix: Solid

**Analysis Batch: 58782** 

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

Prep Batch: 58791

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/29/23 16:20	07/30/23 08:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/29/23 16:20	07/30/23 08:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/29/23 16:20	07/30/23 08:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/29/23 16:20	07/30/23 08:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/29/23 16:20	07/30/23 08:05	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/29/23 16:20	07/30/23 08:05	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90	70 - 130	07/29/23 16:20	07/30/23 08:05	1
1,4-Difluorobenzene (Surr)	78	70 - 130	07/29/23 16:20	07/30/23 08:05	1

Lab Sample ID: LCS 880-58791/1-A

**Matrix: Solid** 

**Analysis Batch: 58782** 

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

**Client Sample ID: Lab Control Sample Dup** 

Prep Batch: 58791

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1235		mg/Kg		124	70 - 130	
Toluene	0.100	0.1250		mg/Kg		125	70 - 130	
Ethylbenzene	0.100	0.1404	*+	mg/Kg		140	70 - 130	
m-Xylene & p-Xylene	0.200	0.2537		mg/Kg		127	70 - 130	
o-Xylene	0.100	0.1222		mg/Kg		122	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	158	S1+	70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-58791/2-A

Matrix: Solid							Prep Ty	pe: Tot	al/NA
Analysis Batch: 58782							Prep E	Batch: 8	58791
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1147		mg/Kg		115	70 - 130	7	35

#### QC Sample Results

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley

SDG: KH227027

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

Lab Sample ID: LCSD 880-58791/2-A

**Matrix: Solid** 

**Analysis Batch: 58782** 

**Client Sample ID: Lab Control Sample Dup** 

Prep Type: Total/NA Prep Batch: 58791

Job ID: 890-4988-1

LCSD LCSD Spike %Rec **RPD** Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Toluene 0.100 0.1105 mg/Kg 111 70 - 130 12 35 0.100 Ethylbenzene 0.1178 mg/Kg 118 70 - 13018 35 m-Xylene & p-Xylene 0.200 0.2046 mg/Kg 70 - 130 35 102 21 0.100 35 o-Xylene 0.1154 mg/Kg 115 70 - 130 6

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

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

Lab Sample ID: MB 880-59184/1-A

**Matrix: Solid** 

**Analysis Batch: 59287** 

**Client Sample ID: Method Blank** 

Prep Type: Total/NA

Prep Batch: 59184

MR MR

	IVID	IAID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/03/23 09:19	08/04/23 11:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/03/23 09:19	08/04/23 11:21	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/03/23 09:19	08/04/23 11:21	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130	08/03/23 09:19	08/04/23 11:21	1
o-Terphenyl	90		70 - 130	08/03/23 09:19	08/04/23 11:21	1

Lab Sample ID: LCS 880-59184/2-A

**Matrix: Solid** 

**Analysis Batch: 59287** 

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA Prep Batch: 59184

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	907.0		mg/Kg		91	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	883.8		mg/Kg		88	70 - 130	

C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	94		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: LCSD 880-59184/3-A

**Matrix: Solid** 

**Analysis Batch: 59287** 

**Client Sample ID: Lab Control Sample Dup** 

Prep Type: Total/NA

Prep Batch: 59184

	;	Spike	LCSD	LCSD				%Rec		RPD
Analyte	A	dded	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics		1000	805.7		mg/Kg		81	70 - 130	12	20
(GRO)-C6-C10										
Diesel Range Organics (Over		1000	904.2		mg/Kg		90	70 - 130	2	20
C10-C28)										

#### QC Sample Results

Client: Terracon Consulting Eng & Scientists

Lab Sample ID: LCSD 880-59184/3-A

Project/Site: Mobley Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 59184

Job ID: 890-4988-1

SDG: KH227027

ICSD ICSD

	LCSD	LUSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	84		70 - 130

#### Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-58547/1-A **Client Sample ID: Method Blank Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 58578** 

**Matrix: Solid** 

**Analysis Batch: 59287** 

мв мв

RL **MDL** Unit Analyte Result Qualifier Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 07/27/23 19:50 mg/Kg

Lab Sample ID: LCS 880-58547/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 58578** 

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 240.1 mg/Kg 96 90 - 110

Lab Sample ID: LCSD 880-58547/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 58578** 

Spike LCSD LCSD %Rec **RPD** Added Analyte Result Qualifier Unit %Rec Limits RPD Limit 250 96 90 - 110 Chloride 241.0 mg/Kg 20

# **QC Association Summary**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley

Job ID: 890-4988-1 SDG: KH227027

#### **GC VOA**

Prep Batch: 58735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-58735/5-A	Method Blank	Total/NA	Solid	5035	

#### **Analysis Batch: 58782**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4988-1	W-SW-05.1	Total/NA	Solid	8021B	58791
890-4988-2	FS-15.1	Total/NA	Solid	8021B	58791
890-4988-3	FS-10.1	Total/NA	Solid	8021B	58791
890-4988-4	W-SW-04.1	Total/NA	Solid	8021B	58791
890-4988-5	FS-09.1	Total/NA	Solid	8021B	58791
890-4988-6	FS-08.1	Total/NA	Solid	8021B	58791
890-4988-7	W-SW-03.1	Total/NA	Solid	8021B	58791
MB 880-58735/5-A	Method Blank	Total/NA	Solid	8021B	58735
MB 880-58791/5-A	Method Blank	Total/NA	Solid	8021B	58791
LCS 880-58791/1-A	Lab Control Sample	Total/NA	Solid	8021B	58791
LCSD 880-58791/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	58791

#### Prep Batch: 58791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4988-1	W-SW-05.1	Total/NA	Solid	5035	<u> </u>
890-4988-2	FS-15.1	Total/NA	Solid	5035	
890-4988-3	FS-10.1	Total/NA	Solid	5035	
890-4988-4	W-SW-04.1	Total/NA	Solid	5035	
890-4988-5	FS-09.1	Total/NA	Solid	5035	
890-4988-6	FS-08.1	Total/NA	Solid	5035	
890-4988-7	W-SW-03.1	Total/NA	Solid	5035	
MB 880-58791/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-58791/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-58791/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

#### **Analysis Batch: 58873**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4988-1	W-SW-05.1	Total/NA	Solid	Total BTEX	
890-4988-2	FS-15.1	Total/NA	Solid	Total BTEX	
890-4988-3	FS-10.1	Total/NA	Solid	Total BTEX	
890-4988-4	W-SW-04.1	Total/NA	Solid	Total BTEX	
890-4988-5	FS-09.1	Total/NA	Solid	Total BTEX	
890-4988-6	FS-08.1	Total/NA	Solid	Total BTEX	
890-4988-7	W-SW-03.1	Total/NA	Solid	Total BTEX	

#### **GC Semi VOA**

#### Prep Batch: 59184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4988-1	W-SW-05.1	Total/NA	Solid	8015NM Prep	
890-4988-2	FS-15.1	Total/NA	Solid	8015NM Prep	
890-4988-3	FS-10.1	Total/NA	Solid	8015NM Prep	
890-4988-4	W-SW-04.1	Total/NA	Solid	8015NM Prep	
890-4988-5	FS-09.1	Total/NA	Solid	8015NM Prep	
890-4988-6	FS-08.1	Total/NA	Solid	8015NM Prep	
890-4988-7	W-SW-03.1	Total/NA	Solid	8015NM Prep	
MB 880-59184/1-A	Method Blank	Total/NA	Solid	8015NM Prep	

# **QC Association Summary**

Client: Terracon Consulting Eng & Scientists

Job ID: 890-4988-1 Project/Site: Mobley SDG: KH227027

GC Semi VOA (Continued)

Prep Batch: 59184 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-59184/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-59184/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

**Analysis Batch: 59287** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4988-1	W-SW-05.1	Total/NA	Solid	8015B NM	59184
890-4988-2	FS-15.1	Total/NA	Solid	8015B NM	59184
890-4988-3	FS-10.1	Total/NA	Solid	8015B NM	59184
890-4988-4	W-SW-04.1	Total/NA	Solid	8015B NM	59184
890-4988-5	FS-09.1	Total/NA	Solid	8015B NM	59184
890-4988-6	FS-08.1	Total/NA	Solid	8015B NM	59184
890-4988-7	W-SW-03.1	Total/NA	Solid	8015B NM	59184
MB 880-59184/1-A	Method Blank	Total/NA	Solid	8015B NM	59184
LCS 880-59184/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	59184
LCSD 880-59184/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	59184

Analysis Batch: 59454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4988-1	W-SW-05.1	Total/NA	Solid	8015 NM	_
890-4988-2	FS-15.1	Total/NA	Solid	8015 NM	
890-4988-3	FS-10.1	Total/NA	Solid	8015 NM	
890-4988-4	W-SW-04.1	Total/NA	Solid	8015 NM	
890-4988-5	FS-09.1	Total/NA	Solid	8015 NM	
890-4988-6	FS-08.1	Total/NA	Solid	8015 NM	
890-4988-7	W-SW-03.1	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 58547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4988-1	W-SW-05.1	Soluble	Solid	DI Leach	
890-4988-2	FS-15.1	Soluble	Solid	DI Leach	
890-4988-3	FS-10.1	Soluble	Solid	DI Leach	
890-4988-4	W-SW-04.1	Soluble	Solid	DI Leach	
890-4988-5	FS-09.1	Soluble	Solid	DI Leach	
890-4988-6	FS-08.1	Soluble	Solid	DI Leach	
890-4988-7	W-SW-03.1	Soluble	Solid	DI Leach	
MB 880-58547/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-58547/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-58547/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

**Analysis Batch: 58578** 

Released to Imaging: 6/10/2025 2:35:50 PM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4988-1	W-SW-05.1	Soluble	Solid	300.0	58547
890-4988-2	FS-15.1	Soluble	Solid	300.0	58547
890-4988-3	FS-10.1	Soluble	Solid	300.0	58547
890-4988-4	W-SW-04.1	Soluble	Solid	300.0	58547
890-4988-5	FS-09.1	Soluble	Solid	300.0	58547
890-4988-6	FS-08.1	Soluble	Solid	300.0	58547
890-4988-7	W-SW-03.1	Soluble	Solid	300.0	58547
MB 880-58547/1-A	Method Blank	Soluble	Solid	300.0	58547

**Eurofins Carlsbad** 

Page 18 of 28

# **QC Association Summary**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley

Job ID: 890-4988-1

SDG: KH227027

# **HPLC/IC (Continued)**

#### **Analysis Batch: 58578 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-58547/2-A	Lab Control Sample	Soluble	Solid	300.0	58547
LCSD 880-58547/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	58547

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley

SDG: KH227027

Client Sample ID: W-SW-05.1 Date Collected: 07/24/23 13:50 Date Received: 07/24/23 16:48

Lab Sample ID: 890-4988-1

Matrix: Solid

Job ID: 890-4988-1

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	58791	07/29/23 16:20	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58782	07/30/23 10:42	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			58873	07/31/23 14:05	AJ	EET MID
Total/NA	Analysis	8015 NM		1			59454	08/07/23 09:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.10 g	10 mL	59184	08/03/23 09:19	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59287	08/04/23 20:51	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	58547	07/26/23 09:52	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	58578	07/27/23 20:44	CH	EET MID

Client Sample ID: FS-15.1 Lab Sample ID: 890-4988-2

Date Collected: 07/24/23 13:55 **Matrix: Solid** 

Date Received: 07/24/23 16:48

	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	58791	07/29/23 16:20	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58782	07/30/23 11:09	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			58873	07/31/23 14:05	AJ	EET MID
Total/NA	Analysis	8015 NM		1			59454	08/07/23 09:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	59184	08/03/23 09:19	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59287	08/04/23 21:14	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	58547	07/26/23 09:52	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	58578	07/27/23 20:51	CH	EET MID

**Client Sample ID: FS-10.1** Lab Sample ID: 890-4988-3

Date Collected: 07/24/23 14:47 Date Received: 07/24/23 16:48

	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	58791	07/29/23 16:20	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58782	07/30/23 11:35	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			58873	07/31/23 14:05	AJ	EET MID
Total/NA	Analysis	8015 NM		1			59454	08/07/23 09:40	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	59184	08/03/23 09:19	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59287	08/04/23 21:37	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	58547	07/26/23 09:52	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	58578	07/27/23 21:12	CH	EET MID

Client Sample ID: W-SW-04.1 Lab Sample ID: 890-4988-4 Date Collected: 07/24/23 14:50 Matrix: Solid

Date Received: 07/24/23 16:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	58791	07/29/23 16:20		EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58782	07/30/23 12:01	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			58873	07/31/23 14:05	AJ	EET MID

**Eurofins Carlsbad** 

Page 20 of 28

**Matrix: Solid** 

Job ID: 890-4988-1 Project/Site: Mobley SDG: KH227027

Client Sample ID: W-SW-04.1 Lab Sample ID: 890-4988-4 Date Collected: 07/24/23 14:50 Matrix: Solid

Date Received: 07/24/23 16:48

	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			59454	08/07/23 09:40	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	59184	08/03/23 09:19	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59287	08/04/23 21:59	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	58547	07/26/23 09:52	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	58578	07/27/23 21:19	CH	EET MID

Client Sample ID: FS-09.1 Lab Sample ID: 890-4988-5 Date Collected: 07/24/23 15:06 **Matrix: Solid** 

Date Received: 07/24/23 16:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	58791	07/29/23 16:20	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58782	07/30/23 12:27	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			58873	07/31/23 14:05	AJ	EET MID
Total/NA	Analysis	8015 NM		1			59454	08/07/23 09:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	59184	08/03/23 09:19	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59287	08/04/23 22:21	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	58547	07/26/23 09:52	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	58578	07/27/23 21:25	CH	EET MID

Lab Sample ID: 890-4988-6 Client Sample ID: FS-08.1 Date Collected: 07/24/23 15:20 **Matrix: Solid** 

Date Received: 07/24/23 16:48

	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	58791	07/29/23 16:20	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58782	07/30/23 14:12	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			58873	07/31/23 14:05	AJ	EET MID
Total/NA	Analysis	8015 NM		1			59454	08/07/23 09:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	59184	08/03/23 09:19	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59287	08/04/23 22:43	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	58547	07/26/23 09:52	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	58578	07/27/23 21:32	CH	EET MID

Client Sample ID: W-SW-03.1 Lab Sample ID: 890-4988-7 Date Collected: 07/24/23 15:25 **Matrix: Solid** 

Date Received: 07/24/23 16:48

	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	58791	07/29/23 16:20	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58782	07/30/23 14:38	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			58873	07/31/23 14:05	AJ	EET MID
Total/NA	Analysis	8015 NM		1			59454	08/07/23 09:40	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	9.93 g 1 uL	10 mL 1 uL	59184 59287	08/03/23 09:19 08/04/23 23:05	TKC SM	EET MID EET MID

#### **Lab Chronicle**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley

Client Sample ID: W-SW-03.1

Lab Sample ID: 890-4988-7

Matrix: Solid

Job ID: 890-4988-1

SDG: KH227027

Date Collected: 07/24/23 15:25 Date Received: 07/24/23 16:48

		Batch	Batch		Dil	Initial	Final	Batch	Prepared		
	Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
	Soluble	Leach	DI Leach			4.98 g	50 mL	58547	07/26/23 09:52	KS	EET MID
Į	Soluble	Analysis	300.0		1	50 mL	50 mL	58578	07/27/23 21:39	CH	EET MID

#### **Laboratory References:**

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

# **Accreditation/Certification Summary**

Client: Terracon Consulting Eng & Scientists

Job ID: 890-4988-1 Project/Site: Mobley SDG: KH227027

#### **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	T104704400-23-26	06-30-24
The following analyte	s are included in this rend	ort but the laboratory is r	not certified by the governing authority.	This list may include analytee for w
the agency does not	•	ort, but the laboratory is i	lot 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: Mobley

Job ID: 890-4988-1

SDG: KH227027	

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

#### **Protocol References:**

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

#### **Laboratory References:**

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

**Eurofins Carlsbad** 

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# **Sample Summary**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley

Job ID: 890-4988-1

SDG: KH227027

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4988-1	W-SW-05.1	Solid		07/24/23 16:48	- 1: :
890-4988-2	FS-15.1	Solid		07/24/23 16:48	
890-4988-3		Solid			-
	FS-10.1			07/24/23 16:48	
890-4988-4	W-SW-04.1	Solid		07/24/23 16:48	
890-4988-5	FS-09.1	Solid		07/24/23 16:48	-
890-4988-6	FS-08.1	Solid	07/24/23 15:20	07/24/23 16:48	5
890-4988-7	W-SW-03.1	Solid	07/24/23 15:25	07/24/23 16:48	0 - 5

# Chain of Custody

nature) Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	-	(Signature) Received by: (Signature)	Relinquished by: (Signature)
	egonese.	720. I nese terms will be emplored university increases.	to Euronns Xenco, put not analy	or each sample submitted	of Eurofits Xenco. Amhilmum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofits Xenco, but not analyzed. These terms will be applied to each project and a charge of \$5 for each sample submitted to Eurofits Xenco, but not analyzed. These terms will be applied to each project and a charge of \$5 for each sample submitted to Eurofits Xenco, but not analyzed. These terms will be applied to each project and a charge of \$5 for each sample submitted to Eurofits Xenco, but not analyzed. These terms will be applied to each project and a charge of \$5 for each sample submitted to Eurofits Xenco, but not analyzed. These terms will be applied to each project and a charge of \$5 for each sample submitted to Eurofits Xenco, but not analyzed. These terms will be applied to each project and a charge of \$5 for each sample submitted to Eurofits Xenco, but not analyzed.	of Eurofins Xenco. Amhilm
	trol	subcontractors. It assigns standard terms and conditions such losses are due to circumstances beyond the control	urofins Xenco, its affiliates and penses incurred by the client if	er from client company to be additing for any losses or ex	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions the control of services are supported to the control of services. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client it such losses are due to chromostances beyond the control of services are supported to the control of samples and shall not assume any responsibility for any losses or expenses incurred by the client it such losses are due to chromostances.	Notice: Signature of this doc of service. Eurofins Xenco v
Ag SiO <sub>2</sub> Na Sr Tl Sn U V Zn Hg: 1631 / 245.1 / 7470 / 7471	A K Se	A 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni TCLP/SPLP6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Sb As Ba Be B Cd A Sb As Ba Be Cd C	M Texas 11 Al PLP 6010 : 8RCRA	Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP	Total 200.7 / 6010 Circle Method(s) ar
			1			2
			888	1 9 150	03 / 5 4 3:	11-54/-
			8	5/6/	S	80 - 53
			88	5'6'	S	FS - 23
			8	0.51		W- SW -
			8 8	5/ 6	Zh:2   S   1.	FS - 10
			8 8 8	5/ 6	1 5 1 1:55	FS - 15
			88	0-5, 6	15.   5 7/24 1:50	W-SW-C
Sample Comments			3 9 CL B7	Depth Comp Cont	fication Matrix Sampled Sampled	Sample Identification
			L	-11		10tal Contamers.
NaOH+Ascorbic Acid: SAPC	stody	890-4988 Chain of Custody	in an in a second	11.0		Total Containers:
Zn Acetate+NaOH: Zn			1	1.0	Yes No N/A	Cample Custody Seals
Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>			cl (	000	Yes No N/A	Cooler Custody Seals:
			80 01.	1800	1	Samples Received Intact:
H <sub>3</sub> PO <sub>4</sub> : HP			200	(Yes) No	Temp Blank: Yes No Wet ice:	SAMPLE RECEIPT
11250 4. 112 NGCT. NG	-		E	the law, is sectioned by another		PO #:
			PA COL B	TAT starts the day received by	weller	Sampler's Name:
9			)		Eddy Due Date:	Project Location:
None: NO DI Water: H <sub>2</sub> O			de 9	Rush	KH227627 Maoutine	Project Number:
ervative		ANALYSIS REQUEST		Turn Around	Mobiley Turn.	Project Name:
	П				Email:	Phone:
DaPT Orber:	Shles: FDD	Delivershies		City, side zir:	Cas shad NV BOCCO	City, State ZIP:
☐ PST/UST ☐ TRRP ☐ Level IV ☐	Reporting: Level II   Level III	Report		Ci Chata 710.	V-285 W.V. V	Address.
	State of Project:	State o		Address:	4507 W Para St.	Aridrass:
Brownfields RRC Superfund	m: UST/PST PRP Brownfields	Program:		Company Name:	Terraren	Company Name:
Work Order Comments	Work Orc			Bill to: (If different)	Jan Gueralan	Project Manager:
o.com Page of	www.xenco.com					
		NM (575) 988-3199	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	Hobbs, NN		
		TX (806) 794-1296	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	EL Paso, T)	Xenco	
No:	Work Order No:	o, TX (210) 509-3334	Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	Midland, TX	Environment Testing	G
		TX (214) 902-0300	Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300	Houston,	_	Seurorins

Revised Date: 08/25/2020 Rev. 2020.2

8/7/2023 (Rev. 1)

### **Login Sample Receipt Checklist**

Client: Terracon Consulting Eng & Scientists

Job Number: 890-4988-1

SDG Number: KH227027

Login Number: 4988 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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.	N/A	Refer to Job Narrative for details.
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	

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## **Login Sample Receipt Checklist**

Client: Terracon Consulting Eng & Scientists

Job Number: 890-4988-1 SDG Number: KH227027

Login Number: 4988 **List Source: Eurofins Midland** List Creation: 07/26/23 10:54 AM List Number: 2

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	
ls the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Joseph Guesnier Terracon Consulting Eng & Scientists 5847 50th St Lubbock, Texas 79424

Generated 8/7/2023 2:39:51 PM

# **JOB DESCRIPTION**

Mobley SDG NUMBER KH227027

# **JOB NUMBER**

890-4990-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



# **Eurofins Carlsbad**

## **Job Notes**

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

# **Authorization**

Generated 8/7/2023 2:39:51 PM

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Page 2 of 22

8/7/2023

# **Eurofins Carlsbad**

# **Compliance Statement**

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

## Coliform MCLs

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

## Warranties, Terms, and Conditions

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

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

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

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

H = field staff performs tests under NJ NELAP certification #PA093, PA NELAP certification # 46-05499

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

MRAMER

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

Laboratory Job ID: 890-4990-1 SDG: KH227027

# **Table of Contents**

Cover Page	1
Table of Contents	4
Definitions/Glossary	5
Case Narrative	6
Client Sample Results	7
Surrogate Summary	10
QC Sample Results	11
QC Association Summary	14
Lab Chronicle	16
Certification Summary	17
Method Summary	18
Sample Summary	19
Chain of Custody	20
Receipt Checklists	21

3

4

6

8

10

11

13

## Definitions/Glossary

Client: Terracon Consulting Eng & Scientists

Job ID: 890-4990-1

Project/Site: Mobley

SDG: KH227027

**Qualifiers** 

**GC VOA** 

 Qualifier
 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

\*+ LCS and/or LCSD is outside acceptance limits, high biased.

S1+ Surrogate recovery exceeds control limits, high biased.

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

U Indicates the analyte was analyzed for but not detected.

**Glossary** 

Abbreviation These commonly used abbreviations may or may not be present in this report.

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

R Percent Recovery

CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present
PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

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

TNTC Too Numerous To Count

**Eurofins Carlsbad** 

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## **Case Narrative**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley

Job ID: 890-4990-1 SDG: KH227027

Job ID: 890-4990-1

**Laboratory: Eurofins Carlsbad** 

Narrative

Job Narrative 890-4990-1

## Receipt

The samples were received on 7/25/2023 1:10 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 5.0°C

## Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS-07.1 (890-4990-1), FS-06.1 (890-4990-2) and FS-05.1 (890-4990-3).

#### GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS-06.1 (890-4990-2) and FS-05.1 (890-4990-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

#### GC Semi VOA

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-59255 and analytical batch 880-59403 was outside the upper control limits.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-59403/20) and (CCV 880-59403/5). Evidence of matrix interferences is not obvious.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: FS-06.1 (890-4990-2) and FS-05.1 (890-4990-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: The laboratory control sample (LCS) associated with preparation batch 880-59255 and analytical batch 880-59403 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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: Mobley

roject/Site: Mobiley

Job ID: 890-4990-1 SDG: KH227027

Matrix: Solid

Lab Sample ID: 890-4990-1

08/03/23 14:00

Prepared

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08/06/23 15:10

Analyzed

07/27/23 22:13

Lab Sample ID: 890-4990-2

Dil Fac

**Matrix: Solid** 

Client Sample ID: FS-07.1

Date Collected: 07/25/23 07:45 Date Received: 07/25/23 13:10

Sample Depth: 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		07/31/23 13:57	07/31/23 16:24	1
Toluene	<0.00201	U	0.00201		mg/Kg		07/31/23 13:57	07/31/23 16:24	1
Ethylbenzene	< 0.00201	U	0.00201		mg/Kg		07/31/23 13:57	07/31/23 16:24	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		07/31/23 13:57	07/31/23 16:24	1
o-Xylene	< 0.00201	U	0.00201		mg/Kg		07/31/23 13:57	07/31/23 16:24	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		07/31/23 13:57	07/31/23 16:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130				07/31/23 13:57	07/31/23 16:24	1
1,4-Difluorobenzene (Surr)	75		70 - 130				07/31/23 13:57	07/31/23 16:24	1
	< 0.00402		0.00402		mg/Kg			08/01/23 09:57	1
Total BTEX  Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (			0 0				
- -		ics (DRO) (		MDL	Unit	D	Prepared	Analyzed	Dil Fac
_ Method: SW846 8015 NM - Diese		Qualifier	GC)	MDL		<u>D</u>	Prepared	Analyzed 08/07/23 14:16	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH		Qualifier U	GC) RL 49.8	MDL	Unit	<u>D</u>	Prepared		Dil Fac
Method: SW846 8015 NM - Diese Analyte	Result <49.8	Qualifier U	GC) RL 49.8		Unit	<u>D</u>	Prepared Prepared		Dil Fac  Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	Result <49.8	Qualifier Unics (DRO) Qualifier	RL 49.8		Unit mg/Kg			08/07/23 14:16	1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies Analyte	Result <49.8 sel Range Orga Result	Qualifier U  nics (DRO) Qualifier U	RL 49.8 (GC)		Unit mg/Kg		Prepared	08/07/23 14:16  Analyzed	1 Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <a href="#">49.8</a> <a href="#">Seel Range Orga</a> <a href="#">Result <a href="#">449.8</a> <a href="#">449.8</a></a>	Qualifier U  nics (DRO) Qualifier U	(GC)  RL 49.8  (GC)  RL 49.8		Unit mg/Kg  Unit mg/Kg		Prepared 08/03/23 14:00	08/07/23 14:16  Analyzed  08/06/23 15:10	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <a href="#">49.8</a> <a href="#">Seel Range Orga</a> <a href="#">Result <a href="#">449.8</a> <a href="#">449.8</a></a>	Qualifier U  nics (DRO) Qualifier U  U *+	(GC)  RL 49.8  (GC)  RL 49.8		Unit mg/Kg  Unit mg/Kg		Prepared 08/03/23 14:00	08/07/23 14:16  Analyzed  08/06/23 15:10	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.8  sel Range Orga Result <49.8 <49.8	Qualifier U  nics (DRO) Qualifier U  U *+	GC)  RL 49.8  (GC)  RL 49.8  49.8		Unit mg/Kg  Unit mg/Kg mg/Kg		Prepared 08/03/23 14:00 08/03/23 14:00	08/07/23 14:16  Analyzed  08/06/23 15:10  08/06/23 15:10	1 Dil Fac 1

70 - 130

RL

4.97

MDL Unit

mg/Kg

Client Sample ID: FS-06.1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

144

Date Collected: 07/25/23 08:23

Date Received: 07/25/23 13:10

Sample Depth: 5

o-Terphenyl

Analyte

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/31/23 13:57	07/31/23 16:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/31/23 13:57	07/31/23 16:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/31/23 13:57	07/31/23 16:45	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		07/31/23 13:57	07/31/23 16:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/31/23 13:57	07/31/23 16:45	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		07/31/23 13:57	07/31/23 16:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				07/31/23 13:57	07/31/23 16:45	1

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley

SDG: KH227027

Job ID: 890-4990-1

Client Sample ID: FS-06.1 Date Collected: 07/25/23 08:23

Lab Sample ID: 890-4990-2

Date Received: 07/25/23 13:10 Sample Depth: 5

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

%Recovery Qualifier Limits Prepared Surrogate Analyzed Dil Fac

67 S1-70 - 130 07/31/23 13:57 1,4-Difluorobenzene (Surr) 07/31/23 16:45

**Method: TAL SOP Total BTEX - Total BTEX Calculation** 

Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared Total BTEX <0.00401 0.00401 08/01/23 09:57 mg/Kg

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

RL MDL Unit D Prepared Analyzed Dil Fac Total TPH <49.8 49.8 08/07/23 14:16 mg/Kg

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

**MDL** Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac <49.8 U mg/Kg Gasoline Range Organics 49.8 08/03/23 14:00 08/06/23 15:33 (GRO)-C6-C10 <49.8 U \*+ 49.8 08/03/23 14:00 08/06/23 15:33 Diesel Range Organics (Over mg/Kg C10-C28) OII Range Organics (Over C28-C36) <49.8 U 49.8 mg/Kg 08/03/23 14:00 08/06/23 15:33

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 139 S1+ 70 - 130 08/03/23 14:00 08/06/23 15:33 08/06/23 15:33 o-Terphenyl 128 70 - 130 08/03/23 14:00

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 4.97 07/27/23 22:34 Chloride 168 mg/Kg

Lab Sample ID: 890-4990-3 Client Sample ID: FS-05.1

Date Collected: 07/25/23 09:10 Date Received: 07/25/23 13:10

Sample Depth: 5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Benzene <0.00202 U 0.00202 mg/Kg 07/31/23 13:57 07/31/23 17:06 Toluene <0.00202 U 0.00202 07/31/23 13:57 07/31/23 17:06 mg/Kg Ethylbenzene <0.00202 U 0.00202 07/31/23 13:57 07/31/23 17:06 mg/Kg 0.00403 07/31/23 17:06 m-Xylene & p-Xylene <0.00403 U 07/31/23 13:57 mg/Kg o-Xylene <0.00202 U 0.00202 mg/Kg 07/31/23 13:57 07/31/23 17:06 Xylenes, Total <0.00403 U 0.00403 mg/Kg 07/31/23 13:57 07/31/23 17:06

%Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed 85 70 - 130 07/31/23 13:57 4-Bromofluorobenzene (Surr) 07/31/23 17:06 1,4-Difluorobenzene (Surr) 65 S1-70 - 130 07/31/23 13:57 07/31/23 17:06

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL MDL D Dil Fac Unit Prepared Analyzed Total BTEX <0.00403 0.00403 08/01/23 09:57 mg/Kg

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac <49.7 U Total TPH 49.7 08/07/23 14:16 mg/Kg

**Eurofins Carlsbad** 

Matrix: Solid

Client: Terracon Consulting Eng & Scientists

SDG: KH227027

Analyzed

07/27/23 22:41

Project/Site: Mobley

Client Sample ID: FS-05.1 Lab Sample ID: 890-4990-3 Date Collected: 07/25/23 09:10

Matrix: Solid

Job ID: 890-4990-1

Sample Depth: 5

Analyte

Chloride

Date Received: 07/25/23 13:10

Analyte	Result	Qualifier	RL	MDL I	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.7	U	49.7	r	mg/Kg		08/03/23 14:00	08/06/23 15:56	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.7	U *+	49.7	r	mg/Kg		08/03/23 14:00	08/06/23 15:56	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.7	U	49.7	r	mg/Kg		08/03/23 14:00	08/06/23 15:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130				08/03/23 14:00	08/06/23 15:56	1
o-Terphenyl	127		70 <sub>-</sub> 130				08/03/23 14:00	08/06/23 15:56	1

RL

25.2

MDL Unit

mg/Kg

D

Prepared

Result Qualifier

492

Dil Fac

# **Surrogate Summary**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley

Job ID: 890-4990-1

SDG: KH227027

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)	
890-4990-1	FS-07.1	89	75	
890-4990-2	FS-06.1	85	67 S1-	
890-4990-3	FS-05.1	85	65 S1-	
LCS 880-58869/1-A	Lab Control Sample	105	119	
LCSD 880-58869/2-A	Lab Control Sample Dup	108	111	
MB 880-58869/5-A	Method Blank	71	82	
Surrogate Legend				

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

Matrix: Solid Prep Type: Total/NA

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-4990-1	FS-07.1	119	111
890-4990-2	FS-06.1	139 S1+	128
890-4990-3	FS-05.1	136 S1+	127
MB 880-59255/1-A	Method Blank	156 S1+	154 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley

Job ID: 890-4990-1

SDG: KH227027

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

Lab Sample ID: MB 880-58869/5-A

**Matrix: Solid** 

Analysis Batch: 58801

Client Sample ID: Method Blank

Prep Type: Total/NA	
Prep Batch: 58869	

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/31/23 11:00	07/31/23 14:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/31/23 11:00	07/31/23 14:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/31/23 11:00	07/31/23 14:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/31/23 11:00	07/31/23 14:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/31/23 11:00	07/31/23 14:41	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/31/23 11:00	07/31/23 14:41	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		70 - 130	07/31/23 11:00	07/31/23 14:41	1
1,4-Difluorobenzene (Surr)	82		70 - 130	07/31/23 11:00	07/31/23 14:41	1

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 58869

Prep Type: Total/NA

Prep Batch: 58869

Lab Sample ID: LCS 880-58869/1-A Matrix: Solid Analysis Batch: 58801

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09712	-	mg/Kg		97	70 - 130	
Toluene	0.100	0.09649		mg/Kg		96	70 - 130	
Ethylbenzene	0.100	0.1093		mg/Kg		109	70 - 130	
m-Xylene & p-Xylene	0.200	0.2274		mg/Kg		114	70 - 130	
o-Xylene	0.100	0.1110		mg/Kg		111	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	119		70 - 130

**Client Sample ID: Lab Control Sample Dup** 

Matrix: Solid

Analysis Batch: 58801

Lab Sample ID: LCSD 880-58869/2-A

•	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.09210		mg/Kg		92	70 - 130	5	35	
Toluene	0.100	0.09358		mg/Kg		94	70 - 130	3	35	
Ethylbenzene	0.100	0.1072		mg/Kg		107	70 - 130	2	35	
m-Xylene & p-Xylene	0.200	0.2224		mg/Kg		111	70 - 130	2	35	
o-Xvlene	0.100	0.1080		ma/Ka		108	70 - 130	3	35	

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1.4-Difluorobenzene (Surr)	111		70 - 130

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley

Job ID: 890-4990-1

SDG: KH227027

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

MD MD

154 S1+

<5.00 U

Lab Sample ID: MB 880-59255/1-A

**Matrix: Solid** Analysis Batch: 59403 Client Sample ID: Method Blank

08/06/23 08:22

Prep Type: Total/NA

Prep Batch: 59255

	MB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		08/03/23 14:00	08/06/23 08:22	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		08/03/23 14:00	08/06/23 08:22	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/03/23 14:00	08/06/23 08:22	1
	МВ	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	156	S1+	70 - 130				08/03/23 14:00	08/06/23 08:22	1

Lab Sample ID: LCS 880-59255/2-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA

70 - 130

Analysis Batch: 59403

Gasoline Range Organics

Diesel Range Organics (Over

Prep Batch: 59255 LCS LCS Spike Added Result Qualifier Unit D %Rec Limits 1000 1091 109 70 - 130 mg/Kg 1000 1432 \*+ mg/Kg 143 70 - 130

C10-C28)

Analyte

o-Terphenyl

Lab Sample ID: LCSD 880-59255/3-A Client Sample ID: Lab Control Sample Dup

**Matrix: Solid** 

(GRO)-C6-C10

**Analysis Batch: 59403** 

Prep Type: Total/NA Prep Batch: 59255

07/27/23 19:50

08/03/23 14:00

7 mm, 500 2 mm o 100									
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1083		mg/Kg		108	70 - 130	1	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1425	*+	mg/Kg		142	70 - 130	1	20
C10-C28)									

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-58547/1-A Client Sample ID: Method Blank **Prep Type: Soluble** 

**Matrix: Solid** 

Analyte

Chloride

**Analysis Batch: 58578** 

MB MB Result Qualifier RLMDL Unit Prepared Analyzed Dil Fac

mg/Kg

Lab Sample ID: LCS 880-58547/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble** 

5.00

**Matrix: Solid** 

**Analysis Batch: 58578** 

Alialysis Batcii. 30370						
	Spike	LCS LCS			%Rec	
Analyte	Added	Result Qualifier	Unit D	%Rec	Limits	
Chloride		240.1	mg/Kg	96	90 - 110	

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley

Job ID: 890-4990-1

SDG: KH227027

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-58547/3-A

**Matrix: Solid** 

Analysis Batch: 58578

Client Sample ID: Lab	Contro	l Sample	Dup
	Pren '	Type: So	luble

Spike LCSD LCSD %Rec RPD Result Qualifier Added RPD Limit Analyte Unit %Rec Limits Chloride 250 241.0 mg/Kg 96 90 - 110 0 20

# **QC Association Summary**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley

Job ID: 890-4990-1 SDG: KH227027

## **GC VOA**

## Analysis Batch: 58801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4990-1	FS-07.1	Total/NA	Solid	8021B	58869
890-4990-2	FS-06.1	Total/NA	Solid	8021B	58869
890-4990-3	FS-05.1	Total/NA	Solid	8021B	58869
MB 880-58869/5-A	Method Blank	Total/NA	Solid	8021B	58869
LCS 880-58869/1-A	Lab Control Sample	Total/NA	Solid	8021B	58869
LCSD 880-58869/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	58869

## Prep Batch: 58869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4990-1	FS-07.1	Total/NA	Solid	5035	
890-4990-2	FS-06.1	Total/NA	Solid	5035	
890-4990-3	FS-05.1	Total/NA	Solid	5035	
MB 880-58869/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-58869/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-58869/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

## Analysis Batch: 58979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4990-1	FS-07.1	Total/NA	Solid	Total BTEX	
890-4990-2	FS-06.1	Total/NA	Solid	Total BTEX	
890-4990-3	FS-05.1	Total/NA	Solid	Total BTEX	

## **GC Semi VOA**

## Prep Batch: 59255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4990-1	FS-07.1	Total/NA	Solid	8015NM Prep	
890-4990-2	FS-06.1	Total/NA	Solid	8015NM Prep	
890-4990-3	FS-05.1	Total/NA	Solid	8015NM Prep	
MB 880-59255/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-59255/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-59255/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 59403

Lab Sample ID 890-4990-1	Client Sample ID FS-07.1	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch 59255
890-4990-2	FS-06.1	Total/NA	Solid	8015B NM	59255
890-4990-3	FS-05.1	Total/NA	Solid	8015B NM	59255
MB 880-59255/1-A	Method Blank	Total/NA	Solid	8015B NM	59255
LCS 880-59255/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	59255
LCSD 880-59255/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	59255

## Analysis Batch: 59525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4990-1	FS-07.1	Total/NA	Solid	8015 NM	
890-4990-2	FS-06.1	Total/NA	Solid	8015 NM	
890-4990-3	FS-05.1	Total/NA	Solid	8015 NM	

# **QC Association Summary**

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

Job ID: 890-4990-1 SDG: KH227027

## HPLC/IC

## Leach Batch: 58547

<b>Lab Sample ID</b> 890-4990-1	Client Sample ID FS-07.1	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
890-4990-2	FS-06.1	Soluble	Solid	DI Leach	
890-4990-3	FS-05.1	Soluble	Solid	DI Leach	
MB 880-58547/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-58547/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-58547/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

## Analysis Batch: 58578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4990-1	FS-07.1	Soluble	Solid	300.0	58547
890-4990-2	FS-06.1	Soluble	Solid	300.0	58547
890-4990-3	FS-05.1	Soluble	Solid	300.0	58547
MB 880-58547/1-A	Method Blank	Soluble	Solid	300.0	58547
LCS 880-58547/2-A	Lab Control Sample	Soluble	Solid	300.0	58547
LCSD 880-58547/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	58547

4

6

8

9

10

11

14

IC

## Lab Chronicle

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley

SDG: KH227027

Job ID: 890-4990-1

Client Sample ID: FS-07.1

Lab Sample ID: 890-4990-1

Date Collected: 07/25/23 07:45 Date Received: 07/25/23 13:10

**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			4.98 g	5 mL	58869	07/31/23 13:57	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58801	07/31/23 16:24	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58979	08/01/23 09:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			59525	08/07/23 14:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	59255	08/03/23 14:00	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59403	08/06/23 15:10	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	58547	07/26/23 09:52	KS	EET MIC
Soluble	Analysis	300.0		1	50 mL	50 mL	58578	07/27/23 22:13	CH	EET MID

Lab Sample ID: 890-4990-2

**Matrix: Solid** 

Date Collected: 07/25/23 08:23 Date Received: 07/25/23 13:10

Client Sample ID: FS-06.1

Dil Initial Final Batch Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 Total/NA 4.99 g 5 mL 58869 07/31/23 13:57 EL EET MID Total/NA 8021B 5 mL **EET MID** Analysis 1 5 mL 58801 07/31/23 16:45 SM Total/NA Total BTEX 58979 08/01/23 09:57 SM Analysis **EET MID** 1 Total/NA Analysis 8015 NM 59525 08/07/23 14:16 SM **EET MID** Total/NA 8015NM Prep 59255 Prep 10.05 g 10 mL 08/03/23 14:00 ΑJ EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 59403 08/06/23 15:33 SM **EET MID** Soluble KS Leach DI Leach 5.03 g 50 mL 58547 07/26/23 09:52 **EET MID** Soluble Analysis 300.0 50 mL 50 mL 58578 07/27/23 22:34 СН **EET MID** 

Client Sample ID: FS-05.1

Lab Sample ID: 890-4990-3

**Matrix: Solid** 

Date Collected: 07/25/23 09:10 Date Received: 07/25/23 13:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	58869	07/31/23 13:57	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58801	07/31/23 17:06	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58979	08/01/23 09:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			59525	08/07/23 14:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	59255	08/03/23 14:00	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	59403	08/06/23 15:56	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	58547	07/26/23 09:52	KS	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	58578	07/27/23 22:41	CH	EET MID

**Laboratory References:** 

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

# **Accreditation/Certification Summary**

Client: Terracon Consulting Eng & Scientists

Job ID: 890-4990-1 Project/Site: Mobley SDG: KH227027

## **Laboratory: Eurofins Midland**

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

Authority Texas		rogram	Identification Number	<b>Expiration Date</b>
		ELAP	T104704400-23-26	06-30-24
The following analytes the agency does not of	. ,	ut the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes for wh
Analysis Method	Prep Method	Matrix	Analyte	
			7 triary to	
8015 NM		Solid	Total TPH	

# **Method Summary**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley

Job ID: 890-4990-1 SDG: KH227027

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

## **Protocol References:**

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

## Laboratory References:

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

**Eurofins Carlsbad** 

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# **Sample Summary**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley

Job ID: 890-4990-1

SDG: KH227027

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	
890-4990-1	FS-07.1	Solid	07/25/23 07:45	07/25/23 13:10	Ę
890-4990-2	FS-06.1	Solid	07/25/23 08:23	07/25/23 13:10	5
890-4990-3	FS-05.1	Solid	07/25/23 09:10	07/25/23 13:10	5

Relinquished

(Signature)

3

500 Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Revised Date: 08/25/2020 Rev. 2020.2

Circle Method(s) and Metal(s) to be analyzed

of service. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyze

Received by: (Signature)

	eurofins
Xenco	Environment Testing

# Chain of Custody

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Work Order No:

Work Order Comments
Program: UST/PST PRP Brownfields RRC
Reporting: Level II  Level III  PST/UST TRRP Level IV
Deliverables: EDD ADaPT Other:
ANALYSIS REQUEST Preservative Codes
None: NO
Cool: Cool
HCL: HC
H <sub>2</sub> S0 4: H <sub>2</sub>
H <sub>3</sub> PO <sub>2</sub> : HP
NaHSO 4: NABIS
Zn Acetae-NaOH: Zn
890-4990 Chain of Custody NaOH+Ascorbic Acid: SAPC
Sample Comments
13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Tl Sn U V Zn TCLP/SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631/245.1/7470 /7471
9 2

Samples Received Intact: SAMPLE RECEIPT

Cooler Custody Seals:

otal Containers: ample Custody Seals: Sampler's Name:

oject Location:

Project Number:

City, State ZIP:

Address:

roject Manager:

ompany Name:

# **Login Sample Receipt Checklist**

Client: Terracon Consulting Eng & Scientists Job Number: 890-4990-1 SDG Number: KH227027

Login Number: 4990 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

## **Login Sample Receipt Checklist**

Client: Terracon Consulting Eng & Scientists

Job Number: 890-4990-1

SDG Number: KH227027

List Source: Eurofins Midland
List Number: 2
List Creation: 07/26/23 10:54 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	
ls 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").

**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Joseph Guesnier Terracon Consulting Eng & Scientists 5847 50th St Lubbock, Texas 79424

Generated 8/28/2023 12:48:26 PM

# **JOB DESCRIPTION**

Mobley SDG NUMBER Eddy

# **JOB NUMBER**

890-5139-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



# **Eurofins Carlsbad**

## **Job Notes**

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

# **Authorization**

Generated 8/28/2023 12:48:26 PM

Authorized for release by Jessica Kramer, Project Manager Jessica.Kramer@et.eurofinsus.com (432)704-5440

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

# **Eurofins Carlsbad**

# **Compliance Statement**

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

## Coliform MCLs

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

## Warranties, Terms, and Conditions

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

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

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

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

H = field staff performs tests under NJ NELAP certification #PA093, PA NELAP certification # 46-05499

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

MAMER

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

Laboratory Job ID: 890-5139-1 SDG: Eddy

# **Table of Contents**

Cover Page	1
Table of Contents	4
Definitions/Glossary	5
Case Narrative	6
Client Sample Results	7
Surrogate Summary	9
QC Sample Results	10
QC Association Summary	13
Lab Chronicle	15
Certification Summary	16
Method Summary	17
Sample Summary	18
Chain of Custody	19
Receint Checklists	20

2

3

4

6

8

10

11

13

## **Definitions/Glossary**

Job ID: 890-5139-1 Client: Terracon Consulting Eng & Scientists Project/Site: Mobley

SDG: Eddy

## **Qualifiers**

**GC VOA** 

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

**GC Semi VOA** 

Qualifier **Qualifier Description** 

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

**HPLC/IC** 

Qualifier **Qualifier Description** 

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

Percent Recovery %R CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor** 

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

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

MCL EPA recommended "Maximum Contaminant Level" Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML Most Probable Number MPN 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)

Reporting Limit or Requested Limit (Radiochemistry) RL

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: Mobley

Job ID: 890-5139-1

SDG: Eddy

Job ID: 890-5139-1

**Laboratory: Eurofins Carlsbad** 

Narrative

Job Narrative 890-5139-1

#### Receipt

The samples were received on 8/22/2023 8:30 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 1.0°C

## **Receipt Exceptions**

The following samples were received and analyzed from an unpreserved bulk soil jar: S-SW-01.1 (890-5139-1) and W-SW-06.1 (890-5139-2).

#### GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCSD 880-61216/2-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-SW-01.1 (890-5139-1) and W-SW-06.1 (890-5139-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

## GC Semi VOA

Method 8015MOD\_NM: The surrogate recovery for the blank associated with preparation batch 880-61009 and analytical batch 880-60956 was outside the upper control limits.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-60956/31), (CCV 880-60956/47) and (CCV 880-60956/58). Evidence of matrix interferences is not obvious.

Method 8015MOD NM: The continuing calibration verification (CCV) associated with batch 880-60956 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-60956/47).

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: Mobley

Job ID: 890-5139-1

SDG: Eddy

Client Sample ID: S-SW-01.1

Date Collected: 08/21/23 09:15

Sample Depth: 0 - 5

Date Received: 08/22/23 08:30

Lab Sample ID: 890-5139-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/26/23 18:08	08/27/23 17:35	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/26/23 18:08	08/27/23 17:35	1
Ethylbenzene	< 0.00201	U	0.00201		mg/Kg		08/26/23 18:08	08/27/23 17:35	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/26/23 18:08	08/27/23 17:35	1
o-Xylene	< 0.00201	U	0.00201		mg/Kg		08/26/23 18:08	08/27/23 17:35	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/26/23 18:08	08/27/23 17:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130				08/26/23 18:08	08/27/23 17:35	1
1,4-Difluorobenzene (Surr)	90		70 - 130				08/26/23 18:08	08/27/23 17:35	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/28/23 12:51	1
Method: SW846 8015 NM - Diese Analyte	•	ics (DRO) (C	GC)	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg				
•								08/25/23 11:26	1
-								08/25/23 11:26	1
Method: SW846 8015B NM - Die	sel Range Orga	nics (DRO)						08/25/23 11:26	1
Method: SW846 8015B NM - Die: Analyte	•	nics (DRO) Qualifier		MDL	Unit	<u>D</u>	Prepared	08/25/23 11:26  Analyzed	Dil Fac
	•	Qualifier	(GC)	MDL		<u>D</u>	Prepared 08/24/23 12:53		
Analyte Gasoline Range Organics	Result	Qualifier U	(GC)	MDL	Unit	<u>D</u>	<u>·</u>	Analyzed	1
Analyte  Gasoline Range Organics (GRO)-C6-C10  Diesel Range Organics (Over	Result   <50.1	Qualifier U	(GC)  RL  50.1	MDL	Unit mg/Kg	<u> </u>	08/24/23 12:53	<b>Analyzed</b> 08/25/23 03:15	1
Analyte  Gasoline Range Organics (GRO)-C6-C10  Diesel Range Organics (Over C10-C28)  Oll Range Organics (Over C28-C36)	Result <50.1	Qualifier U U U	(GC)  RL  50.1	MDL	Unit mg/Kg mg/Kg	<u>D</u>	08/24/23 12:53 08/24/23 12:53	Analyzed 08/25/23 03:15 08/25/23 03:15	1
Analyte  Gasoline Range Organics (GRO)-C6-C10  Diesel Range Organics (Over C10-C28)  Oll Range Organics (Over C28-C36)	Result  <50.1 <50.1 <50.1	Qualifier U U U	(GC)  RL  50.1  50.1	MDL	Unit mg/Kg mg/Kg	<u>D</u>	08/24/23 12:53 08/24/23 12:53 08/24/23 12:53	Analyzed 08/25/23 03:15 08/25/23 03:15 08/25/23 03:15	1 1 1 <i>Dil Fac</i>
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	Result   <50.1   <50.1   <50.1   <50.1   <60.1   %Recovery	Qualifier U U U	(GC)  RL  50.1  50.1  50.1  Limits	MDL	Unit mg/Kg mg/Kg	<u>D</u>	08/24/23 12:53 08/24/23 12:53 08/24/23 12:53 <b>Prepared</b>	Analyzed 08/25/23 03:15 08/25/23 03:15 08/25/23 03:15 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate	Result	Qualifier U U Qualifier	(GC)  RL 50.1  50.1  50.1  Limits 70 - 130 70 - 130	MDL	Unit mg/Kg mg/Kg	<u> </u>	08/24/23 12:53 08/24/23 12:53 08/24/23 12:53 <b>Prepared</b> 08/24/23 12:53	Analyzed 08/25/23 03:15 08/25/23 03:15 08/25/23 03:15  Analyzed 08/25/23 03:15	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U Qualifier	(GC)  RL 50.1  50.1  50.1  Limits 70 - 130 70 - 130	MDL	Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	08/24/23 12:53 08/24/23 12:53 08/24/23 12:53 <b>Prepared</b> 08/24/23 12:53	Analyzed 08/25/23 03:15 08/25/23 03:15 08/25/23 03:15  Analyzed 08/25/23 03:15	Dil Face  1  Dil Face  1  Dil Face

Client Sample ID: W-SW-06.1

Date Collected: 08/21/23 09:50

Date Received: 08/22/23 08:30

Sample Depth: 0 - 5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		08/26/23 18:08	08/27/23 18:01	1
Toluene	0.00967		0.00202		mg/Kg		08/26/23 18:08	08/27/23 18:01	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		08/26/23 18:08	08/27/23 18:01	1
m-Xylene & p-Xylene	0.00943		0.00403		mg/Kg		08/26/23 18:08	08/27/23 18:01	1
o-Xylene	0.00282		0.00202		mg/Kg		08/26/23 18:08	08/27/23 18:01	1
Xylenes, Total	0.0123		0.00403		mg/Kg		08/26/23 18:08	08/27/23 18:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		S1+	70 - 130				08/26/23 18:08	08/27/23 18:01	1

**Eurofins Carlsbad** 

Lab Sample ID: 890-5139-2

Matrix: Solid

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley

Job ID: 890-5139-1

SDG: Eddy

Client Sample ID: W-SW-06.1

Date Collected: 08/21/23 09:50 Date Received: 08/22/23 08:30 Lab Sample ID: 890-5139-2 Matrix: Solid

Sample Depth: 0 - 5

		watrix:

Method: SW846 8021B	- Volatile Organic Compounds (	(GC) (Continued)
---------------------	--------------------------------	------------------

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	101		70 - 130	08/26/23 18:08	08/27/23 18:01	1

Method: TAL SOP	Total RTFY - Total	RTFY Calculation
MELITOU. TAL JOI	TOTAL DIEX - TOTAL	DIEA Calculation

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0219	0.00403	mg/Kg		_	08/28/23 12:51	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (0	н						
	ı	Mothod: CIMOAC ODAE NIM	Discal Bangs	Organica	(DDO)		١.
	н	MELITOU. SYVO40 OUTS INIVI-	· Diesei Kaliue	Organics	IURUI	uu	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		ma/Ka		·	08/25/23 11:26	1

Method: SW846 8015B N	MM - Diesel Range	Organics (	(DRO)	(GC)	١
Michiga. Offoro octob	titi - Diesei italige	Organics i	DILO	(00)	,

	()								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		08/24/23 12:53	08/25/23 03:36	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		08/24/23 12:53	08/25/23 03:36	1
Oll Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		08/24/23 12:53	08/25/23 03:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	08/24/23 12:53	08/25/23 03:36	1
o-Terphenyl	99		70 - 130	08/24/23 12:53	08/25/23 03:36	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qua	alifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	660	24.8	mg/Kg			08/25/23 03:12	5

# **Surrogate Summary**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley

Job ID: 890-5139-1

SDG: Eddy

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)	
890-5139-1	S-SW-01.1	143 S1+	90	
890-5139-2	W-SW-06.1	178 S1+	101	
LCS 880-61216/1-A	Lab Control Sample	126	86	
LCSD 880-61216/2-A	Lab Control Sample Dup	135 S1+	86	
MB 880-61206/8	Method Blank	73	79	
MB 880-61216/5-A	Method Blank	78	78	
Surrogate Legend				
BFB = 4-Bromofluorober	nzene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
90-5139-1	S-SW-01.1	104	106	
390-5139-2	W-SW-06.1	98	99	
.CS 880-61009/2-A	Lab Control Sample	97	105	
CSD 880-61009/3-A	Lab Control Sample Dup	103	117	
ИВ 880-61009/1-A	Method Blank	153 S1+	167 S1+	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley

Job ID: 890-5139-1

SDG: Eddy

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

Lab Sample ID: MB 880-61206/8

**Matrix: Solid** 

Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene

o-Xylene

Xylenes, Total

Matrix: Solid

Analysis Batch: 61206

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

МВ	MB							
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00200	U	0.00200		mg/Kg			08/26/23 20:26	1
<0.00200	U	0.00200		mg/Kg			08/26/23 20:26	1
<0.00200	U	0.00200		mg/Kg			08/26/23 20:26	1
<0.00400	U	0.00400		mg/Kg			08/26/23 20:26	1
<0.00200	U	0.00200		mg/Kg			08/26/23 20:26	1

mg/Kg

MB MB

<0.00400 U

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73	70 - 130		08/26/23 20:26	1
1,4-Difluorobenzene (Surr)	79	70 - 130		08/26/23 20:26	1

0.00400

Client Sample ID: Method Blank

08/26/23 20:26

Prep Type: Total/NA

Prep Batch: 61216

Analysis Batch: 61206 мв мв

Lab Sample ID: MB 880-61216/5-A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/26/23 18:08	08/27/23 09:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/26/23 18:08	08/27/23 09:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/26/23 18:08	08/27/23 09:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/26/23 18:08	08/27/23 09:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/26/23 18:08	08/27/23 09:42	1
Xylenes, Total	< 0.00400	U	0.00400		mg/Kg		08/26/23 18:08	08/27/23 09:42	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepa	ared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130	08/26/23	3 18:08	08/27/23 09:42	1
1,4-Difluorobenzene (Surr)	78		70 - 130	08/26/23	3 18:08	08/27/23 09:42	1

Lab Sample ID: LCS 880-61216/1-A

**Matrix: Solid** 

**Analysis Batch: 61206** 

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

Prep Batch: 61216

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08973		mg/Kg		90	70 - 130	
Toluene	0.100	0.09604		mg/Kg		96	70 - 130	
Ethylbenzene	0.100	0.09490		mg/Kg		95	70 - 130	
m-Xylene & p-Xylene	0.200	0.1835		mg/Kg		92	70 - 130	
o-Xylene	0.100	0.09263		mg/Kg		93	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	126	70 - 130
1.4-Difluorobenzene (Surr)	86	70 - 130

Lab Sample ID: LCSD 880-61216/2-A

**Matrix: Solid** 

Analysis Batch: 61206

Chefit Sample ib. Lab Control Sample bup	!
Prep Type: Total/NA	
Prep Batch: 61216	

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09799		mg/Kg		98	70 - 130	9	35

**Eurofins Carlsbad** 

Page 10 of 21

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley

Job ID: 890-5139-1

SDG: Eddy

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

Lab Sample ID: LCSD 880-61216/2-A

**Matrix: Solid** Analysis Batch: 61206 Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 61216

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.1084		mg/Kg		108	70 - 130	12	35
Ethylbenzene	0.100	0.1032		mg/Kg		103	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.1981		mg/Kg		99	70 - 130	8	35
o-Xylene	0.100	0.1051		mg/Kg		105	70 - 130	13	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

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

Lab Sample ID: MB 880-61009/1-A

**Matrix: Solid** 

Analysis Batch: 60956

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 61009

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/24/23 12:51	08/24/23 19:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/24/23 12:51	08/24/23 19:47	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/24/23 12:51	08/24/23 19:47	1
	MB	MB							

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	153	S1+	70 - 130	08/24/23 12:51	08/24/23 19:47	1
o-Terphenyl	167	S1+	70 - 130	08/24/23 12:51	08/24/23 19:47	1

Lab Sample ID: LCS 880-61009/2-A

**Matrix: Solid** 

Analysis Batch: 60956

Prep Type: Total/NA

Prep Batch: 61009

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	1000	924.4	-	mg/Kg		92	70 - 130
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	850.1		mg/Kg		85	70 - 130
C10-C28)							

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: LCSD 880-61009/3-A

**Matrix: Solid** 

Analysis Batch: 60956

Client Sample	ID: I	Lab (	Control	Samp	le C	նսթ
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Prep Type: Total/NA

Prep Batch: 61009

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	969.2		mg/Kg		97	70 - 130	5	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	861.8		mg/Kg		86	70 - 130	1	20
C10-C28)									

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley

Job ID: 890-5139-1

SDG: Eddy

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

Lab Sample ID: LCSD 880-61009/3-A

**Matrix: Solid** 

Analysis Batch: 60956

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 61009

LCSD LCSD

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 103 70 - 130 o-Terphenyl 117 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-60950/1-A

Lab Sample ID: LCS 880-60950/2-A

**Matrix: Solid** 

**Matrix: Solid** 

**Analysis Batch: 61020** 

MB MB

Analyte Result Qualifier

Chloride <5.00 U

5.00

Spike

Added

250

RL

Result

255.4

257.2

LCS LCS

LCSD LCSD

Result Qualifier

Qualifier

MDL Unit mg/Kg

Unit

mg/Kg

mg/Kg

Prepared

%Rec

102

103

Analyzed Dil Fac 08/24/23 23:53

Client Sample ID: Method Blank

**Prep Type: Soluble** 

**Client Sample ID: Lab Control Sample** 

%Rec

Limits

90 - 110

**Prep Type: Soluble** 

20

Analysis Batch: 61020

Analyte

Chloride Lab Sample ID: LCSD 880-60950/3-A

**Matrix: Solid** 

**Analysis Batch: 61020** 

Spike Analyte Added Chloride 250 Client Sample ID: Lab Control Sample Dup

**Prep Type: Soluble** 

RPD %Rec %Rec Limits RPD Limit Unit

90 - 110

# **QC Association Summary**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley

Job ID: 890-5139-1

SDG: Eddy

## **GC VOA**

## Analysis Batch: 61206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5139-1	S-SW-01.1	Total/NA	Solid	8021B	61216
890-5139-2	W-SW-06.1	Total/NA	Solid	8021B	61216
MB 880-61206/8	Method Blank	Total/NA	Solid	8021B	
MB 880-61216/5-A	Method Blank	Total/NA	Solid	8021B	61216
LCS 880-61216/1-A	Lab Control Sample	Total/NA	Solid	8021B	61216
LCSD 880-61216/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	61216

## Prep Batch: 61216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5139-1	S-SW-01.1	Total/NA	Solid	5035	
890-5139-2	W-SW-06.1	Total/NA	Solid	5035	
MB 880-61216/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-61216/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-61216/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

## **Analysis Batch: 61308**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5139-1	S-SW-01.1	Total/NA	Solid	Total BTEX	
890-5139-2	W-SW-06.1	Total/NA	Solid	Total BTEX	

## **GC Semi VOA**

## Analysis Batch: 60956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5139-1	S-SW-01.1	Total/NA	Solid	8015B NM	61009
890-5139-2	W-SW-06.1	Total/NA	Solid	8015B NM	61009
MB 880-61009/1-A	Method Blank	Total/NA	Solid	8015B NM	61009
LCS 880-61009/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	61009
LCSD 880-61009/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	61009

## Prep Batch: 61009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5139-1	S-SW-01.1	Total/NA	Solid	8015NM Prep	
890-5139-2	W-SW-06.1	Total/NA	Solid	8015NM Prep	
MB 880-61009/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-61009/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-61009/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 61133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5139-1	S-SW-01.1	Total/NA	Solid	8015 NM	
890-5139-2	W-SW-06.1	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 60950

Released to Imaging: 6/10/2025 2:35:50 PM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5139-1	S-SW-01.1	Soluble	Solid	DI Leach	
890-5139-2	W-SW-06.1	Soluble	Solid	DI Leach	
MB 880-60950/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-60950/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-60950/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

# **QC Association Summary**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobiley

Job ID: 890-5139-1

SDG: Eddy

## HPLC/IC

Analysis Batch: 61020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5139-1	S-SW-01.1	Soluble	Solid	300.0	60950
890-5139-2	W-SW-06.1	Soluble	Solid	300.0	60950
MB 880-60950/1-A	Method Blank	Soluble	Solid	300.0	60950
LCS 880-60950/2-A	Lab Control Sample	Soluble	Solid	300.0	60950
LCSD 880-60950/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	60950

3

6

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9

11

12

#### **Lab Chronicle**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley

Job ID: 890-5139-1

SDG: Eddy

Client Sample ID: S-SW-01.1

Lab Sample ID: 890-5139-1

Date Collected: 08/21/23 09:15 Matrix: Solid Date Received: 08/22/23 08:30

	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	61216	08/26/23 18:08	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61206	08/27/23 17:35	SM	EET MID
Total/NA	Analysis	Total BTEX		1			61308	08/28/23 12:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			61133	08/25/23 11:26	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	61009	08/24/23 12:53	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60956	08/25/23 03:15	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	60950	08/23/23 20:04	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	61020	08/25/23 03:06	CH	EET MID

Client Sample ID: W-SW-06.1

Date Collected: 08/21/23 09:50

Date Received: 08/22/23 08:30

Lab Sample ID: 890-5139-2

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			4.96 g	5 mL	61216	08/26/23 18:08	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	61206	08/27/23 18:01	SM	EET MID
Total/NA	Analysis	Total BTEX		1			61308	08/28/23 12:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			61133	08/25/23 11:26	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	61009	08/24/23 12:53	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60956	08/25/23 03:36	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	60950	08/23/23 20:04	SMC	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	61020	08/25/23 03:12	CH	EET MID

**Laboratory References:** 

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

# **Accreditation/Certification Summary**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley

Job ID: 890-5139-1

SDG: Eddy

# **Laboratory: Eurofins Midland**

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

Authority Texas		ogram	Identification Number	Expiration Date 06-30-24
		ELAP	T104704400-23-26	
The following analytes the agency does not of	' '	it the laboratory is not certifi	ied by the governing authority. This list ma	ay include analytes fo
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	

# **Method Summary**

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

Job ID: 890-5139-1

SDG: Eddy

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

#### **Protocol References:**

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

#### Laboratory References:

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

# **Sample Summary**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley

Job ID: 890-5139-1

SDG: Eddy

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5139-1	S-SW-01.1	Solid	08/21/23 09:15	08/22/23 08:30	0 - 5
890-5139-2	W-SW-06.1	Solid	08/21/23 09:50	08/22/23 08:30	0 - 5

**%** eurofins Environment Testing Xenco Housto Midland, 1 EL Paso, Hobbs, I

City, State ZIP:

VM 88220

City, State ZIP:

Reporting: Level II 🗌 Level III 🗎 PST/UST 🗍 TRRP 🔲 Level IV 🗍

Program:

UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐

Superfund |

**Work Order Comments** 

www.xenco.com

Bill to: (If different) Company Name:

Company Name:

# Chain of Custody

NM (575) 392-7550, Carlsbad, NM (575) 988-3199	, TX (915) 585-3443, Lubbock, TX (806) 794-1296	TX (432) 704-5440, San Antonio, TX (210) 509-3334	on, TX (281) 240-4200, Dallas, TX (214) 902-0300
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Work Order No:

			<b>-</b>	_				
			4					Some
		C	5-22-23836	27	M	200		B WOO!
e) Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time		Received by: (Signature)	Received	gnature)	Relinguished by: (Signature)
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			יט מים טר רמיני	010 . onch	וכנד/ אינד ס	anaiyzeo	d Metal(s) to be	Circle Method(s) and Metal(s) to be analyzed
/7470 / 7471	g with MO Nin Servey SiO <sub>2</sub> and Si it Si O v 211 Servey Ha: $1631/245.1/7470/7471$	A 13PPM Texas 11 AISB AS BABE BLOICA CILDE MAN MONISE ACTIVE	Al Sb As Ba Be Cd Cr	Texas 11 Al Sb	BRCRA 13PPM T		200.8 / 6020:	Total 200.7 / 6010
TI Co. II V 75	NI V So Ao SIO NID ST	C.C. C. Fo Db Ma Ma						
			8 8	, C -	9.5005	5	601	
			X Q X	, C -	9:15 05	5 8/21	(	5-5W-01.
Sample Comments			137 130	th Grab/ # of Cont	Time Depth	Matrix Sampled		Sample Identification
NaOH+Ascorbic Acid: SAPC			E	Ö	Corrected Temperature:	Corrected		Total Containers:
Zn Acetate+NaOH: Zn			X (	دو	Temperature Reading:		Yes No NUA	Sample Custody Seals:
Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>			(8	O.O.	Factor:	Correction Factor:	Yes NO NA	Cooler Custody Seals:
NaHSO 4: NABIS		890-5139 Chain of Custody	(80 01	aran	N/	Thermometer ID:	Wes No	Samples Received Intact:
H <sub>3</sub> PO <sub>4</sub> : HP			(! 5?	No neter	Wet Ice:	Yes No	Temp Blank:	SAMPLE RECEIPT
H <sub>2</sub> SO <sub>4</sub> ; H <sub>2</sub> NaOH: Na			30 11		the lab, if received by 4:30pm		0	PO #:
			B	relved by	TAT starts the day received by	Miller	3.12.1	
Cool: Cool MeOH: Me	-		) )		Due Date:		Edely	
None: NO DI Water: H <sub>2</sub> O				Rush Code	Routine 🔲	22	94 C2HM	er:
Preservative Codes		ANALYSIS REQUEST			Turn Around		Mehlen	Project Name:

# **Login Sample Receipt Checklist**

Client: Terracon Consulting Eng & Scientists

Job Number: 890-5139-1

SDG Number: Eddy

Login Number: 5139 List Source: Eurofins Carlsbad

List Number: 1

Creator: Lopez, Abraham

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.	N/A	Refer to Job Narrative for details.
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	

Released to Imaging: 6/10/2025 2:35:50 PM

# **Login Sample Receipt Checklist**

Client: Terracon Consulting Eng & Scientists

Job Number: 890-5139-1

SDG Number: Eddy

Login Number: 5139 **List Source: Eurofins Midland** List Number: 2 List Creation: 08/23/23 10:39 AM

Creator: Rodriguez, Leticia

<6mm (1/4").

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	

**Eurofins Carlsbad** Page 21 of 21 **Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Joseph Guesnier Terracon Consulting Eng & Scientists 5847 50th St Lubbock, Texas 79424

Generated 1/10/2023 1:08:41 PM

# **JOB DESCRIPTION**

Mobley Water Recycle Facility

# **JOB NUMBER**

820-7013-1

Eurofins Lubbock 6701 Aberdeen Ave. Suite 8 Lubbock TX 79424

# **Eurofins Lubbock**

# **Job Notes**

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

# **Authorization**

Generated 1/10/2023 1:08:41 PM

Authorized for release by Jessica Kramer, Project Manager Jessica.Kramer@et.eurofinsus.com (432)704-5440

# **Eurofins Lubbock**

# **Compliance Statement**

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

#### Coliform MCLs

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

## Warranties, Terms, and Conditions

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

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

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

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

H = field staff performs tests under NJ NELAP certification #PA093, PA NELAP certification # 46-05499

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

MRAMER

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Laboratory Job ID: 820-7013-1

Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water Recycle Facility

# **Table of Contents**

Cover Page	1
Table of Contents	4
Definitions/Glossary	5
Case Narrative	6
Client Sample Results	7
Surrogate Summary	17
QC Sample Results	19
QC Association Summary	25
Lab Chronicle	29
Certification Summary	33
Method Summary	34
Sample Summary	35
Chain of Custody	36
Receipt Checklists	37

Δ

7

9

10

12

13

# **Definitions/Glossary**

Client: Terracon Consulting Eng & Scientists

Job ID: 820-7013-1

Project/Site: Mobiley Water Recycle Facility

### **Qualifiers**

GC	VOA

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

## GC Semi VOA

Qualifier	Qualifier Description
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.

#### 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
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

**Eurofins Lubbock** 

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Too Numerous To Count

TNTC

#### Case Narrative

Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water Recycle Facility Job ID: 820-7013-1

Job ID: 820-7013-1

**Laboratory: Eurofins Lubbock** 

Narrative

Job Narrative 820-7013-1

#### Receipt

The samples were received on 1/5/2023 4:44 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 0.8°C

#### **GC VOA**

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-43479 and analytical batch 880-43471 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

#### GC Semi VOA

Method 8015MOD\_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-43382 and analytical batch 880-43449 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD\_NM: The surrogate recovery for the blank associated with preparation batch 880-43343 and analytical batch 880-43315 was outside the upper control limits.

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 880-43380 and analytical batch 880-43416 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

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

Lab Sample ID: 820-7013-1 Date Collected: 01/04/23 08:00

Matrix: Solid

Date Received: 01/05/23 16:44

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00201	U	0.00201		mg/Kg		01/09/23 09:11	01/09/23 11:35	
Toluene	<0.00201	U	0.00201		mg/Kg		01/09/23 09:11	01/09/23 11:35	
Ethylbenzene	<0.00201	U F1	0.00201		mg/Kg		01/09/23 09:11	01/09/23 11:35	
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/09/23 09:11	01/09/23 11:35	
o-Xylene	< 0.00201	U	0.00201		mg/Kg		01/09/23 09:11	01/09/23 11:35	
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/09/23 09:11	01/09/23 11:35	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)			70 - 130				01/09/23 09:11	01/09/23 11:35	
1,4-Difluorobenzene (Surr)	95		70 - 130				01/09/23 09:11	01/09/23 11:35	
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/09/23 14:50	
			•			_			5.1.5
Method: SW846 8015 NM - Diese			•	MDI	Unit	D	Prenared	Analyzod	Dil Fa
Method: SW846 8015 NM - Diese Analyte Total TPH		Qualifier	GC)  RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 01/09/23 09:38	Dil Fa
Analyte Total TPH	Result   <49.9	Qualifier U	<b>RL</b> 49.9	MDL		<u>D</u>	Prepared		Dil Fa
Analyte Total TPH  . Method: SW846 8015B NM - Die	Result <49.9	Qualifier U	<b>RL</b> 49.9			<u>D</u>		01/09/23 09:38	
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte	Result <49.9	Qualifier Unics (DRO) Qualifier	RL 49.9 (GC)		mg/Kg		Prepared		Dil Fa
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <49.9  sel Range Orga Result	Qualifier Unics (DRO) Qualifier	(GC)		mg/Kg			01/09/23 09:38 Analyzed	Dil Fa
Analyte	Result <49.9  sel Range Orga Result	Qualifier U  nics (DRO) Qualifier U	(GC)		mg/Kg		Prepared	01/09/23 09:38 Analyzed	Dil Fa
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U  nics (DRO) Qualifier U  U F1	RL 49.9  (GC) RL 49.9  49.9		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 01/06/23 12:59 01/06/23 12:59	01/09/23 09:38  Analyzed  01/07/23 12:10	Dil Fa
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9  sel Range Orga Result <49.9	Qualifier U  nics (DRO) Qualifier U  U F1	RL 49.9  (GC)  RL 49.9		mg/Kg  Unit mg/Kg		Prepared 01/06/23 12:59	01/09/23 09:38  Analyzed  01/07/23 12:10	Dil Fa
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	Result	Qualifier U  nics (DRO) Qualifier U  U F1	RL 49.9  (GC) RL 49.9  49.9		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 01/06/23 12:59 01/06/23 12:59 01/06/23 12:59 Prepared	01/09/23 09:38  Analyzed 01/07/23 12:10 01/07/23 12:10	Dil Fa
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate	Result	Qualifier U  nics (DRO) Qualifier U  U F1	RL 49.9  (GC)  RL 49.9  49.9  49.9		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 01/06/23 12:59 01/06/23 12:59 01/06/23 12:59	01/09/23 09:38  Analyzed 01/07/23 12:10 01/07/23 12:10 01/07/23 12:10	Dil Fa
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	Result	Qualifier U  nics (DRO) Qualifier U  U F1	RL 49.9  (GC)  RL 49.9  49.9  49.9  Limits		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 01/06/23 12:59 01/06/23 12:59 01/06/23 12:59 Prepared	01/09/23 09:38  Analyzed 01/07/23 12:10 01/07/23 12:10 01/07/23 12:10  Analyzed	Dil Fa
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U  nics (DRO) Qualifier U  U F1  U  Qualifier	RL 49.9  (GC)  RL 49.9  49.9  49.9  Limits  70 - 130  70 - 130		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 01/06/23 12:59 01/06/23 12:59 01/06/23 12:59  Prepared 01/06/23 12:59	01/09/23 09:38  Analyzed 01/07/23 12:10  01/07/23 12:10  Analyzed 01/07/23 12:10	Dil Fa
Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	Result   <49.9	Qualifier U  nics (DRO) Qualifier U  U F1  U  Qualifier	RL 49.9  (GC)  RL 49.9  49.9  49.9  Limits  70 - 130  70 - 130	MDL	mg/Kg  Unit mg/Kg  mg/Kg		Prepared 01/06/23 12:59 01/06/23 12:59 01/06/23 12:59  Prepared 01/06/23 12:59	01/09/23 09:38  Analyzed 01/07/23 12:10  01/07/23 12:10  Analyzed 01/07/23 12:10	Dil Fa

Client Sample ID: HA-1 (0.5-1) Lab Sample ID: 820-7013-2 Date Collected: 01/04/23 08:05 **Matrix: Solid** 

Date Received: 01/05/23 16:44

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/09/23 09:11	01/09/23 11:56	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/09/23 09:11	01/09/23 11:56	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/09/23 09:11	01/09/23 11:56	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/09/23 09:11	01/09/23 11:56	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/09/23 09:11	01/09/23 11:56	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/09/23 09:11	01/09/23 11:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				01/09/23 09:11	01/09/23 11:56	1
1.4-Difluorobenzene (Surr)	101		70 - 130				01/09/23 09:11	01/09/23 11:56	1

Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

Lab Sample ID: 820-7013-2

01/07/23 13:12

01/06/23 20:05

**Matrix: Solid** 

01/06/23 12:59

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

Date Received: 01/05/23 16:44

Date Collected: 01/04/23 08:05

91

4780

**Matrix: Solid** 

Method: TAL SOP Total BTEX - To	tal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL (	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	r	mg/Kg			01/09/23 14:50	1
Г									

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) MDL Unit Result Qualifier RL Prepared Analyzed Analyte D Dil Fac Total TPH <49.8 U 49.8 01/09/23 09:38 mg/Kg

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier RL MDL Unit Analyte D Prepared Dil Fac Analyzed <49.8 U 49.8 01/06/23 12:59 01/07/23 13:12 Gasoline Range Organics mg/Kg (GRO)-C6-C10 01/06/23 12:59 Diesel Range Organics (Over <49.8 U 49.8 mg/Kg 01/07/23 13:12 C10-C28) OII Range Organics (Over C28-C36) <49.8 U 49.8 mg/Kg 01/06/23 12:59 01/07/23 13:12 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac

o-Terphenyl 94 70 - 130 01/06/23 12:59 01/07/23 13:12 Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier Analyte RL MDL Unit D Prepared Analyzed Dil Fac

70 - 130

50.3 Client Sample ID: HA-1 (1.5-2) Lab Sample ID: 820-7013-3

mg/Kg

Date Received: 01/05/23 16:44

Released to Imaging: 6/10/2025 2:35:50 PM

1-Chlorooctane

Chloride

Date Collected: 01/04/23 08:10

Method: SW846 8021B - Volati	ile Organic Comp	ounds (GC)	)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/09/23 09:11	01/09/23 12:17	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/09/23 09:11	01/09/23 12:17	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/09/23 09:11	01/09/23 12:17	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/09/23 09:11	01/09/23 12:17	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/09/23 09:11	01/09/23 12:17	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/09/23 09:11	01/09/23 12:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130				01/09/23 09:11	01/09/23 12:17	1
1,4-Difluorobenzene (Surr)	99		70 - 130				01/09/23 09:11	01/09/23 12:17	1

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/09/23 14:50	1

Method: SW846 8015 NM - Diesel F									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/09/23 09:38	1

Method: SW846 8015B NM - Die	sel Range Orga	nics (DRO) (0	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/06/23 12:59	01/07/23 13:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/06/23 12:59	01/07/23 13:33	1

Job ID: 820-7013-1

Dil Fac

Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water Recycle Facility

Client Sample ID: HA-1 (1.5-2) Date Collected: 01/04/23 08:10

Lab Sample ID: 820-7013-3

Date Received: 01/05/23 16:44

**Matrix: Solid** 

Method: SW846 8015B NM - Diesel	Range Orga	nics (DRO) (0	GC) (Continue	d)			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prep
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/06/2

1560

Result Qualifier

Analyzed Dil Fac pared 23 12:59 01/07/23 13:33

Analyzed

Qualifier Surrogate %Recovery Limits 1-Chlorooctane 70 - 130 79 o-Terphenyl 80 70 - 130

01/06/23 12:59 01/07/23 13:33 01/06/23 12:59 01/07/23 13:33

Prepared

D

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier Analyte

Dil Fac Prepared Analyzed 01/06/23 20:11 10

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

Lab Sample ID: 820-7013-4

Date Collected: 01/04/23 08:20 Date Received: 01/05/23 16:44

Chloride

Analyte

**Matrix: Solid** 

Method: SW846 8021B - Volatile Organic Compounds (GC)

Dil Fac

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Benzene <0.00199 U 0.00199 01/09/23 09:11 01/09/23 12:38 mg/Kg Toluene <0.00199 U 0.00199 01/09/23 09:11 01/09/23 12:38 mg/Kg Ethylbenzene <0.00199 U 0.00199 01/09/23 09:11 01/09/23 12:38 mg/Kg m-Xylene & p-Xylene 01/09/23 09:11 01/09/23 12:38 <0.00398 U 0.00398 mg/Kg o-Xylene <0.00199 U 0.00199 mg/Kg 01/09/23 09:11 01/09/23 12:38 Xylenes, Total <0.00398 U 0.00398 mg/Kg 01/09/23 09:11 01/09/23 12:38

%Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed 70 - 130 01/09/23 09:11 4-Bromofluorobenzene (Surr) 129 01/09/23 12:38 01/09/23 09:11 01/09/23 12:38

RL

50.2

MDL

Unit

mg/Kg

1,4-Difluorobenzene (Surr) 100 70 - 130

> RL MDL Unit D Dil Fac Prepared Analyzed 0.00398 mg/Kg 01/09/23 14:50

Total BTEX <0.00398 U

Method: TAL SOP Total BTEX - Total BTEX Calculation

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Dil Fac Unit D Prepared Analyzed Total TPH <49.8 U 49.8 01/09/23 09:38 mg/Kg

Method: SW846 8015B NM - Diesei	Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		01/06/23 12:59	01/07/23 13:53	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		01/06/23 12:59	01/07/23 13:53	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/06/23 12:59	01/07/23 13:53	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81	70 - 130	01/06/23 12:59	01/07/23 13:53	1
o-Terphenyl	82	70 - 130	01/06/23 12:59	01/07/23 13:53	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5630	49.8	mg/Kg			01/06/23 20:17	10

Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

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Lab Sample ID: 820-7013-5

Matrix: Solid

Client Sample ID: HA-3 (0-0.5)
Date Collected: 01/04/23 08:30

Date Received: 01/05/23 16:44

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/09/23 09:11	01/09/23 12:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/09/23 09:11	01/09/23 12:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/09/23 09:11	01/09/23 12:58	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/09/23 09:11	01/09/23 12:58	
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/09/23 09:11	01/09/23 12:58	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/09/23 09:11	01/09/23 12:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130				01/09/23 09:11	01/09/23 12:58	
1,4-Difluorobenzene (Surr)	102		70 - 130				01/09/23 09:11	01/09/23 12:58	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/09/23 14:50	1
	or runge engun	ics (DRO) (	<b>3</b> C)						
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier	•	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 01/09/23 09:38	Dil Fac
Analyte Total TPH	<b>Result</b> <49.9	Qualifier U	<b>RL</b> 49.9	MDL		<u>D</u>	Prepared		Dil Fac
Analyte Total TPH  . Method: SW846 8015B NM - Die	Result <49.9 esel Range Orga	Qualifier U	<b>RL</b> 49.9			D	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Die Analyte	Result <49.9  esel Range Orga Result	Qualifier Unics (DRO) Qualifier	RL 49.9 (GC)		mg/Kg			01/09/23 09:38	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	Result <49.9  esel Range Orga Result	Qualifier Unics (DRO) Qualifier	(GC)		mg/Kg		Prepared	01/09/23 09:38  Analyzed	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9  esel Range Orga Result	Qualifier U  nics (DRO) Qualifier U	(GC)		mg/Kg		Prepared	01/09/23 09:38  Analyzed	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9  Pesel Range Orga Result <49.9  <49.9	Qualifier U  nics (DRO) Qualifier U	RL 49.9  (GC) RL 49.9  49.9		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 01/06/23 12:59 01/06/23 12:59	01/09/23 09:38  Analyzed 01/07/23 14:14 01/07/23 14:14	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9  Pesel Range Orga Result <49.9	Qualifier U  nics (DRO) Qualifier U	(GC) RL 49.9		mg/Kg  Unit mg/Kg		Prepared 01/06/23 12:59	01/09/23 09:38  Analyzed  01/07/23 14:14	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9  Pesel Range Orga Result <49.9  <49.9	Qualifier U  nics (DRO) Qualifier U	RL 49.9  (GC) RL 49.9  49.9		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 01/06/23 12:59 01/06/23 12:59	01/09/23 09:38  Analyzed 01/07/23 14:14 01/07/23 14:14	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U  nics (DRO) Qualifier U  U	RL 49.9  (GC) RL 49.9  49.9  49.9		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 01/06/23 12:59 01/06/23 12:59 01/06/23 12:59	01/09/23 09:38  Analyzed 01/07/23 14:14 01/07/23 14:14	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	Result   <49.9	Qualifier U  nics (DRO) Qualifier U  U	RL 49.9  (GC)  RL 49.9  49.9  49.9  Limits		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 01/06/23 12:59 01/06/23 12:59 01/06/23 12:59 Prepared	01/09/23 09:38  Analyzed 01/07/23 14:14 01/07/23 14:14  Analyzed	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	Result   <49.9	Qualifier U  nics (DRO) Qualifier U  U  Qualifier	RL 49.9  (GC)  RL 49.9  49.9  49.9  Limits  70 - 130  70 - 130		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 01/06/23 12:59 01/06/23 12:59 01/06/23 12:59 Prepared 01/06/23 12:59	01/09/23 09:38  Analyzed 01/07/23 14:14  01/07/23 14:14  Analyzed 01/07/23 14:14	Dil Face 1 1 1 Dil Face
Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate	Result   <49.9	Qualifier U  nics (DRO) Qualifier U  U  Qualifier	RL 49.9  (GC)  RL 49.9  49.9  49.9  Limits  70 - 130  70 - 130	MDL	mg/Kg  Unit mg/Kg  mg/Kg		Prepared 01/06/23 12:59 01/06/23 12:59 01/06/23 12:59 Prepared 01/06/23 12:59	01/09/23 09:38  Analyzed 01/07/23 14:14  01/07/23 14:14  Analyzed 01/07/23 14:14	1 1 Dil Fac

Client Sample ID: HA-4 (0.5-1)

Date Collected: 01/04/23 08:40

Lab Sample ID: 820-7013-6

Matrix: Solid

Date Collected: 01/04/23 08:40
Date Received: 01/05/23 16:44

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/09/23 09:11	01/09/23 13:19	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/09/23 09:11	01/09/23 13:19	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/09/23 09:11	01/09/23 13:19	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/09/23 09:11	01/09/23 13:19	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/09/23 09:11	01/09/23 13:19	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/09/23 09:11	01/09/23 13:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130				01/09/23 09:11	01/09/23 13:19	1
1,4-Difluorobenzene (Surr)	106		70 - 130				01/09/23 09:11	01/09/23 13:19	1

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Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

Lab Sample ID: 820-7013-6

Matrix: Solid

Client Sample ID: HA-4 (0.5-1)

Date Collected: 01/04/23 08:40 Date Received: 01/05/23 16:44

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/09/23 14:50	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (	GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/09/23 09:38	1
Analyte	Result	Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015B NM - Dies		• •							
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		01/06/23 12:59	01/07/23 14:35	1
(GRO)-C6-C10	.50.0		50.0		11.7		04/00/00 40 50	04/07/00 44 05	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/06/23 12:59	01/07/23 14:35	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/06/23 12:59	01/07/23 14:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130				01/06/23 12:59	01/07/23 14:35	1
o-Terphenyl	80		70 - 130				01/06/23 12:59	01/07/23 14:35	1
Method: MCAWW 300.0 - Anions	, Ion Chromato	graphy - S	oluble						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4570		50.4		mg/Kg			01/06/23 20:42	10

Client Sample ID: HS-1 (0-0.5) Lab Sample ID: 820-7013-7 **Matrix: Solid** 

Date Collected: 01/04/23 08:50 Date Received: 01/05/23 16:44

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00202	U	0.00202		mg/Kg		01/09/23 09:11	01/09/23 15:52	
Toluene	<0.00202	U	0.00202		mg/Kg		01/09/23 09:11	01/09/23 15:52	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/09/23 09:11	01/09/23 15:52	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/09/23 09:11	01/09/23 15:52	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/09/23 09:11	01/09/23 15:52	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/09/23 09:11	01/09/23 15:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	168	S1+	70 - 130				01/09/23 09:11	01/09/23 15:52	1
1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX -			70 - 130				01/09/23 09:11	01/09/23 15:52	
Method: TAL SOP Total BTEX - Analyte	Total BTEX Cald	Qualifier	RL	MDL		<u>D</u>	01/09/23 09:11 Prepared	01/09/23 15:52  Analyzed  01/09/23 16:29	·
Method: TAL SOP Total BTEX - Analyte Total BTEX	Total BTEX Calc Result <0.00404	<b>Qualifier</b> U	RL 0.00404	MDL	Unit mg/Kg	<u>D</u>		Analyzed	·
Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Dies	Total BTEX Calc Result <0.00404  sel Range Organ	<b>Qualifier</b> U	RL 0.00404	MDL	mg/Kg	<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX - Analyte	Total BTEX Calc Result <0.00404  sel Range Organ	Qualifier U ics (DRO) (Qualifier	RL		mg/Kg	=	Prepared	Analyzed 01/09/23 16:29	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Dies Analyte Total TPH	rotal BTEX Calc Result <0.00404 sel Range Organ Result <50.0	Qualifier U ics (DRO) ( Qualifier U	RL 0.00404 ———————————————————————————————		mg/Kg	=	Prepared	Analyzed 01/09/23 16:29 Analyzed	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Dies Analyte Total TPH  Method: SW846 8015B NM - Die	rotal BTEX Calc Result <0.00404  sel Range Organ Result <50.0 esel Range Organ	Qualifier U ics (DRO) ( Qualifier U	RL 0.00404 ———————————————————————————————		mg/Kg  Unit mg/Kg	=	Prepared	Analyzed 01/09/23 16:29 Analyzed	Dil Fac
Method: TAL SOP Total BTEX - Analyte Total BTEX  Method: SW846 8015 NM - Dies Analyte	rotal BTEX Calc Result <0.00404  sel Range Organ Result <50.0 esel Range Organ	Qualifier U  ics (DRO) ( Qualifier U  nics (DRO) Qualifier	RL 0.00404  GC)  RL 50.0	MDL	mg/Kg  Unit mg/Kg	<u></u>	Prepared Prepared	Analyzed 01/09/23 16:29  Analyzed 01/09/23 09:38	Dil Fac

Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

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

Date Collected: 01/04/23 08:50 Date Received: 01/05/23 16:44

Lab Sample ID: 820-7013-7

**Matrix: Solid** 

Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC) (Continue	ed)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/06/23 12:59	01/07/23 14:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				01/06/23 12:59	01/07/23 14:56	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Prepared Dil Fac Analyzed 01/06/23 20:48

70 - 130

92

714 49.7 10 Chloride mg/Kg Client Sample ID: HS-2 (0-0.5)

Date Collected: 01/04/23 08:55

o-Terphenyl

C10-C28)

Lab Sample ID: 820-7013-8 **Matrix: Solid** 

01/07/23 14:56

01/06/23 12:59

Date Received: 01/05/23 16:44

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/09/23 09:11	01/09/23 16:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/09/23 09:11	01/09/23 16:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/09/23 09:11	01/09/23 16:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/09/23 09:11	01/09/23 16:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/09/23 09:11	01/09/23 16:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/09/23 09:11	01/09/23 16:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				01/09/23 09:11	01/09/23 16:26	1
1,4-Difluorobenzene (Surr)	93		70 - 130				01/09/23 09:11	01/09/23 16:26	1

Michiga. IAE GOL Total BTEX - Total I	JIEK Oul	Julation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/09/23 16:42	1
Г									

Method: SW846 8015 NM - Diese	•	, ,, ,	•						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/09/23 09:38	1
Method: SW846 8015B NM - Die	sel Range Orga	nics (DRO) (	GC)						
Amalusta	Desuit	O. alifian	DI.	MDI	11		Duamanad	A so a la ses al	Dil Fee
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics			<b>RL</b> 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared 01/06/23 12:59	Analyzed 01/07/23 15:17	Dil Fac
				MDL		<u>D</u>			Dil Fac

Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	01/06/23 12:59	01/07/23 15:17	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130		01/06/23 12:59	01/07/23 15:17	1
o-Terphenyl	76		70 - 130		01/06/23 12:59	01/07/23 15:17	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	894		25.2		mg/Kg			01/06/23 21:06	5

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Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

Lab Sample ID: 820-7013-9

Matrix: Solid

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

Date Collected: 01/04/23 09:00 Date Received: 01/05/23 16:44

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/09/23 09:11	01/09/23 16:46	1
Toluene	< 0.00199	U	0.00199		mg/Kg		01/09/23 09:11	01/09/23 16:46	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		01/09/23 09:11	01/09/23 16:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/09/23 09:11	01/09/23 16:46	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		01/09/23 09:11	01/09/23 16:46	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/09/23 09:11	01/09/23 16:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				01/09/23 09:11	01/09/23 16:46	1
1,4-Difluorobenzene (Surr)	104		70 - 130				01/09/23 09:11	01/09/23 16:46	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/10/23 13:28	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (	GC)						
		ics (DRO) ( Qualifier	GC) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte		Qualifier	•	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 01/09/23 09:38	Dil Fac
Analyte Total TPH	Result   <50.0	Qualifier U	<b>RL</b> 50.0	MDL		<u>D</u>	Prepared		Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die:	Result <50.0	Qualifier U	RL 50.0		mg/Kg			01/09/23 09:38	1
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte	Result <50.0  sel Range Orga Result	Qualifier Unics (DRO) Qualifier	RL 50.0		mg/Kg	<u>D</u>	Prepared	01/09/23 09:38 Analyzed	1 Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics	Result <50.0	Qualifier Unics (DRO) Qualifier	RL 50.0		mg/Kg			01/09/23 09:38	1
Analyte Total TPH  Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.0  Sel Range Orga Result <50.0	Qualifier U  nics (DRO) Qualifier U	RL   50.0		mg/Kg  Unit mg/Kg		Prepared 01/06/23 12:59	01/09/23 09:38  Analyzed  01/07/23 15:38	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0  sel Range Orga Result	Qualifier U  nics (DRO) Qualifier U	RL 50.0		mg/Kg		Prepared	01/09/23 09:38 Analyzed	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0  Sel Range Orga Result <50.0	Qualifier U  nics (DRO) Qualifier U	RL   50.0		mg/Kg  Unit mg/Kg		Prepared 01/06/23 12:59	01/09/23 09:38  Analyzed  01/07/23 15:38	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U  nics (DRO) Qualifier U  U	RL 50.0 (GC) RL 50.0 50.0		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 01/06/23 12:59 01/06/23 12:59	01/09/23 09:38  Analyzed  01/07/23 15:38  01/07/23 15:38	1 Dil Fac 1 1
Analyte Total TPH  Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate	Result	Qualifier U  nics (DRO) Qualifier U  U	RL 50.0  (GC)  RL 50.0  50.0  50.0		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 01/06/23 12:59 01/06/23 12:59 01/06/23 12:59	01/09/23 09:38  Analyzed 01/07/23 15:38 01/07/23 15:38	1 Dil Fac 1 1
Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	Result	Qualifier U  nics (DRO) Qualifier U  U	RL   50.0		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 01/06/23 12:59 01/06/23 12:59 01/06/23 12:59 Prepared	01/09/23 09:38  Analyzed 01/07/23 15:38  01/07/23 15:38  Analyzed	Dil Fac  1  1  Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U  nics (DRO) Qualifier U  U  Qualifier	RL 50.0  (GC)  RL 50.0  50.0  50.0  Limits  70 - 130  70 - 130		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 01/06/23 12:59 01/06/23 12:59 01/06/23 12:59 Prepared 01/06/23 12:59	01/09/23 09:38  Analyzed 01/07/23 15:38  01/07/23 15:38  Analyzed 01/07/23 15:38	1 Dil Fac 1 Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH  Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl  Method: MCAWW 300.0 - Anions Analyte	Result	Qualifier U  nics (DRO) Qualifier U  U  Qualifier	RL 50.0  (GC)  RL 50.0  50.0  50.0  Limits  70 - 130  70 - 130	MDL	mg/Kg  Unit mg/Kg  mg/Kg		Prepared 01/06/23 12:59 01/06/23 12:59 01/06/23 12:59 Prepared 01/06/23 12:59	01/09/23 09:38  Analyzed 01/07/23 15:38  01/07/23 15:38  Analyzed 01/07/23 15:38	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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

Date Collected: 01/04/23 09:05

Lab Sample ID: 820-7013-10

Matrix: Solid

Date Received: 01/05/23 16:44

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/09/23 09:11	01/09/23 18:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/09/23 09:11	01/09/23 18:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/09/23 09:11	01/09/23 18:31	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/09/23 09:11	01/09/23 18:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/09/23 09:11	01/09/23 18:31	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/09/23 09:11	01/09/23 18:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				01/09/23 09:11	01/09/23 18:31	1
1,4-Difluorobenzene (Surr)	97		70 - 130				01/09/23 09:11	01/09/23 18:31	1

Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

Lab Sample ID: 820-7013-10

Matrix: Solid

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

Date Collected: 01/04/23 09:05 Date Received: 01/05/23 16:44

_									
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/10/23 13:28	1
– Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (	GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/09/23 09:38	1
		. (220)	(00)						
Method: SW846 8015B NM - Dies	•	• •				_			5.1.5
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		01/06/23 12:59	01/07/23 15:59	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		01/06/23 12:59	01/07/23 15:59	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/06/23 12:59	01/07/23 15:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130				01/06/23 12:59	01/07/23 15:59	1
o-Terphenyl	77		70 - 130				01/06/23 12:59	01/07/23 15:59	1
_									
Method: MCAWW 300.0 - Anions	, Ion Chromato	graphy - S	oluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.1		4.98		mg/Kg			01/06/23 21:19	1

Client Sample ID: HS-5 (0-0.5) Lab Sample ID: 820-7013-11

Date Collected: 01/04/23 09:10

Date Received: 01/05/23 16:44

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/06/23 16:33	01/09/23 13:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/06/23 16:33	01/09/23 13:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/06/23 16:33	01/09/23 13:35	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/06/23 16:33	01/09/23 13:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/06/23 16:33	01/09/23 13:35	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/06/23 16:33	01/09/23 13:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				01/06/23 16:33	01/09/23 13:35	1
	0.4		70 400				01/06/23 16:33	01/09/23 13:35	1
1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX Analyte		culation Qualifier	70 <sub>-</sub> 130 RL	MDL	Unit	D	Prepared	Analyzed	
Method: TAL SOP Total BTEX	- Total BTEX Cald			MDL	Unit	D			
	- Total BTEX Cald	Qualifier		MDL	Unit mg/Kg	<u>D</u>			Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die	- Total BTEX Calc Result <0.00399 esel Range Organ	Qualifier U	RL 0.00399		mg/Kg		Prepared	Analyzed 01/09/23 14:22	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <0.00399 esel Range Organ Result	Qualifier U ics (DRO) (Qualifier	RL 0.00399	MDL MDL	mg/Kg	<u>D</u>		Analyzed 01/09/23 14:22 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die	- Total BTEX Calc Result <0.00399 esel Range Organ	Qualifier U ics (DRO) (Qualifier	RL 0.00399		mg/Kg		Prepared	Analyzed 01/09/23 14:22	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <0.00399 esel Range Organ Result <50.0	Qualifier U ics (DRO) ( Qualifier U	RL 0.00399 GC) RL 50.0		mg/Kg		Prepared	Analyzed 01/09/23 14:22 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Calc Result <0.00399 esel Range Organ Result <50.0 Diesel Range Orga	Qualifier U ics (DRO) ( Qualifier U	RL 0.00399 GC) RL 50.0	MDL	mg/Kg		Prepared	Analyzed 01/09/23 14:22 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH  Method: SW846 8015B NM - D	- Total BTEX Calc Result <0.00399 esel Range Organ Result <50.0 Diesel Range Orga	Qualifier U  ics (DRO) ( Qualifier U  nics (DRO) Qualifier	RL 0.00399  GC)  RL 50.0	MDL	mg/Kg  Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 01/09/23 14:22  Analyzed 01/09/23 09:38	Dil Fac

**Eurofins Lubbock** 

**Matrix: Solid** 

Job ID: 820-7013-1

Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water Recycle Facility

Lab Sample ID: 820-7013-11

Client Sample ID: HS-5 (0-0.5) Date Collected: 01/04/23 09:10

Date Received: 01/05/23 16:44

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/06/23 12:59	01/07/23 16:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	79		70 - 130			01/06/23 12:59	01/07/23 16:41	1
o-Temhenyl	80		70 130			01/06/23 12:50	01/07/23 16:41	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<4.97 U	4.97	ma/Ka			01/06/23 21:25	1		

Client Sample ID: HS-6 (0-0.5)

Lab Sample ID: 820-7013-12

Date Collected: 01/04/23 09:15

**Matrix: Solid** 

Date Received: 01/05/23 16:44

Method: SW846 8021B - Volat	ile Organic Comp	ounds (GC	)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/06/23 16:33	01/09/23 13:55	1
Toluene	< 0.00199	U	0.00199		mg/Kg		01/06/23 16:33	01/09/23 13:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/06/23 16:33	01/09/23 13:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/06/23 16:33	01/09/23 13:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/06/23 16:33	01/09/23 13:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/06/23 16:33	01/09/23 13:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				01/06/23 16:33	01/09/23 13:55	1
1.4-Difluorobenzene (Surr)	81		70 - 130				01/06/23 16:33	01/09/23 13:55	1

1 Bromenaciosciizene (earr)	110	70-700	01/00/20 10:00	0 17 007 20 10.00	•
1,4-Difluorobenzene (Surr)	81	70 - 130	01/06/23 16:33	01/09/23 13:55	1
Method: TAL SOP Total BTEX - Total BTI	EX Calculatio	n			

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/09/23 15:12	1
Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) ((	GC)					

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/09/23 09:38	1
Method: SW846 8015B NM - Diese	el Range Orga	nics (DRO) (C	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	П	50.0		ma/Ka		01/06/23 12:59	01/07/23 17:02	

1 Ohlawaastawa	70		70 400		04/00/00 40:50	04/07/00 47:00	
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg	01/06/23 12:59	01/07/23 17:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg	01/06/23 12:59	01/07/23 17:02	1
(GRO)-C6-C10	<b>\</b> 30.0	U	30.0	mg/Kg	01/00/23 12.39	01/01/25 11:02	'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130	01/06/23 12:59	01/07/23 17:02	1
o-Terphenyl	79		70 - 130	01/06/23 12:59	01/07/23 17:02	1
_						

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.76		5.02		mg/Kg			01/06/23 21:31	1

**Eurofins Lubbock** 

1/10/2023

Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

Client Sample ID: HS-7 (0-0.5)

Date Collected: 01/04/23 09:20 Date Received: 01/05/23 16:44 Lab Sample ID: 820-7013-13

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/06/23 16:33	01/09/23 14:16	1
Toluene	< 0.00199	U	0.00199		mg/Kg		01/06/23 16:33	01/09/23 14:16	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		01/06/23 16:33	01/09/23 14:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/06/23 16:33	01/09/23 14:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/06/23 16:33	01/09/23 14:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/06/23 16:33	01/09/23 14:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130				01/06/23 16:33	01/09/23 14:16	1
1,4-Difluorobenzene (Surr)	96		70 - 130				01/06/23 16:33	01/09/23 14:16	1
- Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/09/23 15:12	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/09/23 11:24	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/06/23 08:58	01/06/23 19:04	1
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		01/06/23 08:58	01/06/23 19:04	1
C10-C28) OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/06/23 08:58	01/06/23 19:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130				01/06/23 08:58	01/06/23 19:04	1
o-Terphenyl	110		70 - 130				01/06/23 08:58	01/06/23 19:04	1
Method: MCAWW 300.0 - Anions	, Ion Chromato	ography - So	oluble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	197		5.01		mg/Kg			01/06/23 21:37	1

# **Surrogate Summary**

Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
820-7013-1	HA-1 (0-0.5)	112	95	
820-7013-1 MS	HA-1 (0-0.5)	105	89	
820-7013-1 MSD	HA-1 (0-0.5)	103	94	
820-7013-2	HA-1 (0.5-1)	126	101	
820-7013-3	HA-1 (1.5-2)	130	99	
820-7013-4	HA-2 (0-0.5)	129	100	
820-7013-5	HA-3 (0-0.5)	129	102	
820-7013-6	HA-4 (0.5-1)	129	106	
820-7013-7	HS-1 (0-0.5)	168 S1+	111	
820-7013-8	HS-2 (0-0.5)	99	93	
820-7013-9	HS-3 (0-0.5)	122	104	
820-7013-10	HS-4 (0-0.5)	110	97	
820-7013-11	HS-5 (0-0.5)	112	84	
820-7013-12	HS-6 (0-0.5)	119	81	
820-7013-13	HS-7 (0-0.5)	95	96	
LCS 880-43439/1-A	Lab Control Sample	89	99	
LCS 880-43479/1-A	Lab Control Sample	93	96	
LCSD 880-43439/2-A	Lab Control Sample Dup	106	102	
LCSD 880-43479/2-A	Lab Control Sample Dup	93	96	
MB 880-43439/5-A	Method Blank	80	89	
MB 880-43479/5-A	Method Blank	103	86	

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
820-7013-1	HA-1 (0-0.5)	77	79	
320-7013-1 MS	HA-1 (0-0.5)	89	80	
320-7013-1 MSD	HA-1 (0-0.5)	89	81	
320-7013-2	HA-1 (0.5-1)	91	94	
320-7013-3	HA-1 (1.5-2)	79	80	
320-7013-4	HA-2 (0-0.5)	81	82	
820-7013-5	HA-3 (0-0.5)	79	80	
320-7013-6	HA-4 (0.5-1)	79	80	
320-7013-7	HS-1 (0-0.5)	91	92	
320-7013-8	HS-2 (0-0.5)	75	76	
320-7013-9	HS-3 (0-0.5)	82	83	
320-7013-10	HS-4 (0-0.5)	78	77	
320-7013-11	HS-5 (0-0.5)	79	80	
320-7013-12	HS-6 (0-0.5)	78	79	
320-7013-13	HS-7 (0-0.5)	100	110	
CS 880-43343/2-A	Lab Control Sample	128	117	
_CS 880-43382/2-A	Lab Control Sample	123	110	
LCSD 880-43343/3-A	Lab Control Sample Dup	125	123	

# **Surrogate Summary**

Client: Terracon Consulting Eng & Scientists

Job ID: 820-7013-1

Project/Site: Mobiley Water Recycle Facility

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Red
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
LCSD 880-43382/3-A	Lab Control Sample Dup	117	104	
MB 880-43343/1-A	Method Blank	150 S1+	137 S1+	
MB 880-43382/1-A	Method Blank	124	121	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water Recycle Facility Job ID: 820-7013-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-43439/5-A

Lab Sample ID: LCS 880-43439/1-A

Matrix: Solid

Analysis Batch: 43469

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43439

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/06/23 16:33	01/09/23 11:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/06/23 16:33	01/09/23 11:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/06/23 16:33	01/09/23 11:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/06/23 16:33	01/09/23 11:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/06/23 16:33	01/09/23 11:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/06/23 16:33	01/09/23 11:10	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80	70 - 130	01/06/23 16:33	01/09/23 11:10	1
1,4-Difluorobenzene (Surr)	89	70 - 130	01/06/23 16:33	01/09/23 11:10	1

Client Sample ID: Lab Control Sample

Prop Ratch: 43439

Prep Batch: 43439

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1002 mg/Kg 100 70 - 130 Toluene 0.100 0.1030 mg/Kg 103 70 - 130 0.08917 Ethylbenzene 0.100 mg/Kg 89 70 - 130 70 - 130 0.200 94 m-Xylene & p-Xylene 0.1878 mg/Kg 0.100 o-Xylene 0.1033 mg/Kg 103 70 - 130

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	89	70 - 130
1,4-Difluorobenzene (Surr)	99	70 - 130

Lab Sample ID: LCSD 880-43439/2-A

Matrix: Solid

**Matrix: Solid** 

Analysis Batch: 43469

Analysis Batch: 43469

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 43439

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Benzene 0.100 0.09637 mg/Kg 96 70 - 130 35 Toluene 0.100 0.1021 mg/Kg 102 70 - 130 35 Ethylbenzene 0.100 0.09727 mg/Kg 97 70 - 130 9 35 m-Xylene & p-Xylene 0.200 0.2121 mg/Kg 106 70 - 130 12 35 0.100 o-Xylene 0.1167 mg/Kg 117 70 - 130 35

LCSD LCSD

Surrogate	%Recovery (	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: MB 880-43479/5-A

Released to Imaging: 6/10/2025 2:35:50 PM

Matrix: Solid

Analysis Batch: 43471

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43479

MB MB Result Qualifier Analyte RL MDL Unit Prepared Analyzed Dil Fac <0.00200 U 0.00200 Benzene mg/Kg 01/09/23 09:11 01/09/23 11:14 Toluene <0.00200 U 0.00200 mg/Kg 01/09/23 09:11 01/09/23 11:14

**Eurofins Lubbock** 

13

# QC Sample Results

Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

Lab Sample ID: MB 880-43479/5-A **Matrix: Solid** 

Analysis Batch: 43471

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43479

	IVID	MID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/09/23 09:11	01/09/23 11:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/09/23 09:11	01/09/23 11:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/09/23 09:11	01/09/23 11:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/09/23 09:11	01/09/23 11:14	1

MB MB

MR MR

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	01/09/23 09:11	01/09/23 11:14	1
1,4-Difluorobenzene (Surr)	86		70 - 130	01/09/23 09:11	01/09/23 11:14	1

Lab Sample ID: LCS 880-43479/1-A **Client Sample ID: Lab Control Sample Matrix: Solid** 

Analysis Batch: 43471

Prep Type: Total/NA Prep Batch: 43479

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.08291 83 70 - 130 mg/Kg Toluene 0.100 0.08166 mg/Kg 82 70 - 130 Ethylbenzene 0.100 0.07350 mg/Kg 73 70 - 130 m-Xylene & p-Xylene 0.200 0.1583 79 70 - 130 mg/Kg o-Xylene 0.100 0.07894 mg/Kg 70 - 130

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	93	70 - 130
1,4-Difluorobenzene (Surr)	96	70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 43479

Analysis Batch: 43471

**Matrix: Solid** 

Matrix: Solid

Lab Sample ID: LCSD 880-43479/2-A

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09447		mg/Kg		94	70 - 130	13	35
Toluene	0.100	0.09192		mg/Kg		92	70 - 130	12	35
Ethylbenzene	0.100	0.08452		mg/Kg		85	70 - 130	14	35
m-Xylene & p-Xylene	0.200	0.1820		mg/Kg		91	70 - 130	14	35
o-Xylene	0.100	0.09056		mg/Kg		91	70 - 130	14	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	93	70 - 130
1,4-Difluorobenzene (Surr)	96	70 - 130

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

Prep Type: Total/NA

Prep Batch: 43479

-	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00201	U	0.100	0.08194		mg/Kg		82	70 - 130
Toluene	<0.00201	U	0.100	0.07829		mg/Kg		78	70 - 130
Ethylbenzene	<0.00201	U F1	0.100	0.06914	F1	mg/Kg		69	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1511		mg/Kg		75	70 - 130

**Eurofins Lubbock** 

Lab Sample ID: 820-7013-1 MS

Analysis Batch: 43471

Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

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

Lab Sample ID: 820-7013-1 MS Client Sample ID: HA-1 (0-0.5) **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 43471 Prep Batch: 43479

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits D <0.00201 U 0.100 0.07521 mg/Kg 75 70 - 130 o-Xylene

MS MS %Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 105 70 - 130 70 - 130 1,4-Difluorobenzene (Surr) 89

Lab Sample ID: 820-7013-1 MSD Client Sample ID: HA-1 (0-0.5)

**Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 43471** Prep Batch: 43479

Sample Sample MSD MSD Spike Result Qualifier Limit Analyte Added Result Qualifier Unit %Rec Limits RPD D Benzene <0.00201 U 0.0996 0.08958 mg/Kg 90 70 - 130 9 35 Toluene <0.00201 U 0.0996 0.08435 mg/Kg 85 70 - 130 35 <0.00201 UF1 0.0996 0.07189 mg/Kg 72 70 - 130 4 35

Ethylbenzene m-Xylene & p-Xylene < 0.00402 U 0.199 0.1547 mg/Kg 78 70 - 130 2 35 <0.00201 0.0996 0.07639 77 70 - 130 35 o-Xylene mg/Kg MSD MSD Surrogate %Recovery Qualifier Limits

4-Bromofluorobenzene (Surr) 103 70 - 130 1,4-Difluorobenzene (Surr) 94 70 - 130

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

Lab Sample ID: MB 880-43343/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 43315

MB MB Result Qualifier RL MDL Dil Fac Analyte Unit D Prepared Analyzed 50.0 Gasoline Range Organics <50.0 U mg/Kg 01/06/23 08:18 01/06/23 08:29 (GRO)-C6-C10 50.0 <50.0 U 01/06/23 08:18 01/06/23 08:29 Diesel Range Organics (Over mg/Kg C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 01/06/23 08:18 01/06/23 08:29

MB MB %Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed 1-Chlorooctane 150 S1+ 70 - 130 01/06/23 08:18 01/06/23 08:29 o-Terphenyl 137 S1+ 70 - 130 01/06/23 08:18 01/06/23 08:29

Lab Sample ID: LCS 880-43343/2-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA

**Analysis Batch: 43315** Prep Batch: 43343

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 1055 mg/Kg 106 70 130 (GRO)-C6-C10 1000 1009 101 70 - 130 Diesel Range Organics (Over mg/Kg C10-C28)

**Eurofins Lubbock** 

Prep Batch: 43343

Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

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

Lab Sample ID: LCS 880-43343/2-A

Lab Sample ID: LCSD 880-43343/3-A

**Matrix: Solid** 

**Matrix: Solid** 

Analysis Batch: 43315

Diesel Range Organics (Over

**Analysis Batch: 43449** 

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43343

LCS LCS

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 128 70 - 130 o-Terphenyl 117 70 - 130

Client Sample ID: Lab Control Sample Dup

70 - 130

102

Prep Type: Total/NA

Prep Batch: 43343

Analysis Batch: 43315 Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 994.1 99 70 - 1306 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10

1020

mg/Kg

1000

C10-C28)

**Matrix: Solid** 

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	125		70 - 130
o-Terphenyl	123		70 - 130

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43382

MB MB Analyte RL MDL Unit Result Qualifier D Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 mg/Kg 01/06/23 12:59 01/07/23 09:18 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 01/06/23 12:59 01/07/23 09:18 C10-C28) <50.0 U 50.0 01/06/23 12:59 OII Range Organics (Over C28-C36) 01/07/23 09:18 mg/Kg

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130	01/06/23 12:59	01/07/23 09:18	1
o-Terphenyl	121		70 - 130	01/06/23 12:59	01/07/23 09:18	1

Lab Sample ID: LCS 880-43382/2-A

Lab Sample ID: MB 880-43382/1-A

**Matrix: Solid** 

Analysis Batch: 43449

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 43382

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	1000	1076		mg/Kg		108	70 - 130
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	975.0		mg/Kg		98	70 - 130

C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	123		70 - 130
o-Terphenyl	110		70 - 130

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# QC Sample Results

Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

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

Lab Sample ID: LCSD 880-43382/3-A

**Matrix: Solid** 

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analysis Batch: 43449 Prep Batch: 43382

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	993.4		mg/Kg		99	70 - 130	8	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	910.2		mg/Kg		91	70 - 130	7	20
C10 C28)									

C10-C28)

LCSD LCSD

Surrogate	%Recovery 0	Qualifier	Limits
1-Chlorooctane	117		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: 820-7013-1 MS Client Sample ID: HA-1 (0-0.5)

Matrix: Solid

**Analysis Batch: 43449** 

Prep Type: Total/NA

Prep Batch: 43382

	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	998	843.8		mg/Kg		82	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U F1	998	690.3	F1	mg/Kg		67	70 - 130	

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	89		70 - 130
o-Terphenyl	80		70 - 130

Lab Sample ID: 820-7013-1 MSD

**Matrix: Solid** 

Analysis Batch: 43449

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

Prep Type: Total/NA Prep Batch: 43382

-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.9	U	997	845.6		mg/Kg		82	70 - 130	0	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.9	U F1	997	681.4	F1	mg/Kg		66	70 - 130	1	20

		III.OD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	89		70 - 130
o-Terphenyl	81		70 - 130

MSD MSD

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-43380/1-A

**Matrix: Solid** 

Analysis Batch: 43416

Client Sample ID: Method Blank

**Prep Type: Soluble** 

MB MB Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac D Chloride <5.00 U 5.00 01/06/23 18:38 mg/Kg

# QC Sample Results

Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

**Prep Type: Soluble** 

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-43380/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** 

Analysis Batch: 43416

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 243.3 mg/Kg 97 90 - 110

Lab Sample ID: LCSD 880-43380/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 43416

Spike LCSD LCSD %Rec RPD Added Limit Analyte Result Qualifier Unit D %Rec Limits RPD Chloride 250 253.3 mg/Kg 101 90 - 110

Lab Sample ID: 820-7013-5 MS Client Sample ID: HA-3 (0-0.5) **Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 43416

%Rec Sample Sample Spike MS MS Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 4880 F1 2480 7766 F1 90 - 110 mg/Kg 116

Lab Sample ID: 820-7013-5 MSD Client Sample ID: HA-3 (0-0.5) **Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 43416

Sample Sample MSD MSD RPD Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec RPD Limit Limits 4880 2480 Chloride F1 8068 F1 129 90 - 110 20 mg/Kg

Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

### **GC VOA**

## Prep Batch: 43439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-7013-11	HS-5 (0-0.5)	Total/NA	Solid	5035	
820-7013-12	HS-6 (0-0.5)	Total/NA	Solid	5035	
820-7013-13	HS-7 (0-0.5)	Total/NA	Solid	5035	
MB 880-43439/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-43439/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-43439/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

### Analysis Batch: 43469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-7013-11	HS-5 (0-0.5)	Total/NA	Solid	8021B	43439
820-7013-12	HS-6 (0-0.5)	Total/NA	Solid	8021B	43439
820-7013-13	HS-7 (0-0.5)	Total/NA	Solid	8021B	43439
MB 880-43439/5-A	Method Blank	Total/NA	Solid	8021B	43439
LCS 880-43439/1-A	Lab Control Sample	Total/NA	Solid	8021B	43439
LCSD 880-43439/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	43439

## Analysis Batch: 43471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-7013-1	HA-1 (0-0.5)	Total/NA	Solid	8021B	43479
820-7013-2	HA-1 (0.5-1)	Total/NA	Solid	8021B	43479
820-7013-3	HA-1 (1.5-2)	Total/NA	Solid	8021B	43479
820-7013-4	HA-2 (0-0.5)	Total/NA	Solid	8021B	43479
820-7013-5	HA-3 (0-0.5)	Total/NA	Solid	8021B	43479
820-7013-6	HA-4 (0.5-1)	Total/NA	Solid	8021B	43479
820-7013-7	HS-1 (0-0.5)	Total/NA	Solid	8021B	43479
820-7013-8	HS-2 (0-0.5)	Total/NA	Solid	8021B	43479
820-7013-9	HS-3 (0-0.5)	Total/NA	Solid	8021B	43479
820-7013-10	HS-4 (0-0.5)	Total/NA	Solid	8021B	43479
MB 880-43479/5-A	Method Blank	Total/NA	Solid	8021B	43479
LCS 880-43479/1-A	Lab Control Sample	Total/NA	Solid	8021B	43479
LCSD 880-43479/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	43479
820-7013-1 MS	HA-1 (0-0.5)	Total/NA	Solid	8021B	43479
820-7013-1 MSD	HA-1 (0-0.5)	Total/NA	Solid	8021B	43479

#### Prep Batch: 43479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-7013-1	HA-1 (0-0.5)	Total/NA	Solid	5035	
820-7013-2	HA-1 (0.5-1)	Total/NA	Solid	5035	
820-7013-3	HA-1 (1.5-2)	Total/NA	Solid	5035	
820-7013-4	HA-2 (0-0.5)	Total/NA	Solid	5035	
820-7013-5	HA-3 (0-0.5)	Total/NA	Solid	5035	
820-7013-6	HA-4 (0.5-1)	Total/NA	Solid	5035	
820-7013-7	HS-1 (0-0.5)	Total/NA	Solid	5035	
820-7013-8	HS-2 (0-0.5)	Total/NA	Solid	5035	
820-7013-9	HS-3 (0-0.5)	Total/NA	Solid	5035	
820-7013-10	HS-4 (0-0.5)	Total/NA	Solid	5035	
MB 880-43479/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-43479/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-43479/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
820-7013-1 MS	HA-1 (0-0.5)	Total/NA	Solid	5035	
820-7013-1 MSD	HA-1 (0-0.5)	Total/NA	Solid	5035	

Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

### **GC VOA**

### Analysis Batch: 43558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-7013-1	HA-1 (0-0.5)	Total/NA	Solid	Total BTEX	
820-7013-2	HA-1 (0.5-1)	Total/NA	Solid	Total BTEX	
820-7013-3	HA-1 (1.5-2)	Total/NA	Solid	Total BTEX	
820-7013-4	HA-2 (0-0.5)	Total/NA	Solid	Total BTEX	
820-7013-5	HA-3 (0-0.5)	Total/NA	Solid	Total BTEX	
820-7013-6	HA-4 (0.5-1)	Total/NA	Solid	Total BTEX	
820-7013-7	HS-1 (0-0.5)	Total/NA	Solid	Total BTEX	
820-7013-8	HS-2 (0-0.5)	Total/NA	Solid	Total BTEX	
820-7013-9	HS-3 (0-0.5)	Total/NA	Solid	Total BTEX	
820-7013-10	HS-4 (0-0.5)	Total/NA	Solid	Total BTEX	
820-7013-11	HS-5 (0-0.5)	Total/NA	Solid	Total BTEX	
820-7013-12	HS-6 (0-0.5)	Total/NA	Solid	Total BTEX	
820-7013-13	HS-7 (0-0.5)	Total/NA	Solid	Total BTEX	

### **GC Semi VOA**

# Analysis Batch: 43315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-7013-13	HS-7 (0-0.5)	Total/NA	Solid	8015B NM	43343
MB 880-43343/1-A	Method Blank	Total/NA	Solid	8015B NM	43343
LCS 880-43343/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	43343
LCSD 880-43343/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	43343

### Prep Batch: 43343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-7013-13	HS-7 (0-0.5)	Total/NA	Solid	8015NM Prep	
MB 880-43343/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-43343/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-43343/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

### Prep Batch: 43382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
820-7013-1	HA-1 (0-0.5)	Total/NA	Solid	8015NM Prep	
820-7013-2	HA-1 (0.5-1)	Total/NA	Solid	8015NM Prep	
820-7013-3	HA-1 (1.5-2)	Total/NA	Solid	8015NM Prep	
320-7013-4	HA-2 (0-0.5)	Total/NA	Solid	8015NM Prep	
820-7013-5	HA-3 (0-0.5)	Total/NA	Solid	8015NM Prep	
820-7013-6	HA-4 (0.5-1)	Total/NA	Solid	8015NM Prep	
820-7013-7	HS-1 (0-0.5)	Total/NA	Solid	8015NM Prep	
820-7013-8	HS-2 (0-0.5)	Total/NA	Solid	8015NM Prep	
820-7013-9	HS-3 (0-0.5)	Total/NA	Solid	8015NM Prep	
820-7013-10	HS-4 (0-0.5)	Total/NA	Solid	8015NM Prep	
820-7013-11	HS-5 (0-0.5)	Total/NA	Solid	8015NM Prep	
820-7013-12	HS-6 (0-0.5)	Total/NA	Solid	8015NM Prep	
MB 880-43382/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-43382/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-43382/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
820-7013-1 MS	HA-1 (0-0.5)	Total/NA	Solid	8015NM Prep	
820-7013-1 MSD	HA-1 (0-0.5)	Total/NA	Solid	8015NM Prep	

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Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

### **GC Semi VOA**

### Analysis Batch: 43449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-7013-1	HA-1 (0-0.5)	Total/NA	Solid	8015B NM	43382
820-7013-2	HA-1 (0.5-1)	Total/NA	Solid	8015B NM	43382
820-7013-3	HA-1 (1.5-2)	Total/NA	Solid	8015B NM	43382
820-7013-4	HA-2 (0-0.5)	Total/NA	Solid	8015B NM	43382
820-7013-5	HA-3 (0-0.5)	Total/NA	Solid	8015B NM	43382
820-7013-6	HA-4 (0.5-1)	Total/NA	Solid	8015B NM	43382
820-7013-7	HS-1 (0-0.5)	Total/NA	Solid	8015B NM	43382
820-7013-8	HS-2 (0-0.5)	Total/NA	Solid	8015B NM	43382
820-7013-9	HS-3 (0-0.5)	Total/NA	Solid	8015B NM	43382
820-7013-10	HS-4 (0-0.5)	Total/NA	Solid	8015B NM	43382
820-7013-11	HS-5 (0-0.5)	Total/NA	Solid	8015B NM	43382
820-7013-12	HS-6 (0-0.5)	Total/NA	Solid	8015B NM	43382
MB 880-43382/1-A	Method Blank	Total/NA	Solid	8015B NM	43382
LCS 880-43382/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	43382
LCSD 880-43382/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	43382
820-7013-1 MS	HA-1 (0-0.5)	Total/NA	Solid	8015B NM	43382
820-7013-1 MSD	HA-1 (0-0.5)	Total/NA	Solid	8015B NM	43382

#### Analysis Batch: 43489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-7013-1	HA-1 (0-0.5)	Total/NA	Solid	8015 NM	_
820-7013-2	HA-1 (0.5-1)	Total/NA	Solid	8015 NM	
820-7013-3	HA-1 (1.5-2)	Total/NA	Solid	8015 NM	
820-7013-4	HA-2 (0-0.5)	Total/NA	Solid	8015 NM	
820-7013-5	HA-3 (0-0.5)	Total/NA	Solid	8015 NM	
820-7013-6	HA-4 (0.5-1)	Total/NA	Solid	8015 NM	
820-7013-7	HS-1 (0-0.5)	Total/NA	Solid	8015 NM	
820-7013-8	HS-2 (0-0.5)	Total/NA	Solid	8015 NM	
820-7013-9	HS-3 (0-0.5)	Total/NA	Solid	8015 NM	
820-7013-10	HS-4 (0-0.5)	Total/NA	Solid	8015 NM	
820-7013-11	HS-5 (0-0.5)	Total/NA	Solid	8015 NM	
820-7013-12	HS-6 (0-0.5)	Total/NA	Solid	8015 NM	
820-7013-13	HS-7 (0-0.5)	Total/NA	Solid	8015 NM	

### **HPLC/IC**

#### Leach Batch: 43380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
820-7013-1	HA-1 (0-0.5)	Soluble	Solid	DI Leach	
820-7013-2	HA-1 (0.5-1)	Soluble	Solid	DI Leach	
820-7013-3	HA-1 (1.5-2)	Soluble	Solid	DI Leach	
820-7013-4	HA-2 (0-0.5)	Soluble	Solid	DI Leach	
820-7013-5	HA-3 (0-0.5)	Soluble	Solid	DI Leach	
820-7013-6	HA-4 (0.5-1)	Soluble	Solid	DI Leach	
820-7013-7	HS-1 (0-0.5)	Soluble	Solid	DI Leach	
820-7013-8	HS-2 (0-0.5)	Soluble	Solid	DI Leach	
820-7013-9	HS-3 (0-0.5)	Soluble	Solid	DI Leach	
820-7013-10	HS-4 (0-0.5)	Soluble	Solid	DI Leach	
820-7013-11	HS-5 (0-0.5)	Soluble	Solid	DI Leach	
820-7013-12	HS-6 (0-0.5)	Soluble	Solid	DI Leach	
820-7013-13	HS-7 (0-0.5)	Soluble	Solid	DI Leach	

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Page 27 of 38

Released to Imaging: 6/10/2025 2:35:50 PM

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Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

# **HPLC/IC (Continued)**

## Leach Batch: 43380 (Continued)

Lab Sample ID  MB 880-43380/1-A	Client Sample ID  Method Blank	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
LCS 880-43380/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-43380/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
820-7013-5 MS	HA-3 (0-0.5)	Soluble	Solid	DI Leach	
820-7013-5 MSD	HA-3 (0-0.5)	Soluble	Solid	DI Leach	

### Analysis Batch: 43416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-7013-1	HA-1 (0-0.5)	Soluble	Solid	300.0	43380
820-7013-2	HA-1 (0.5-1)	Soluble	Solid	300.0	43380
820-7013-3	HA-1 (1.5-2)	Soluble	Solid	300.0	43380
820-7013-4	HA-2 (0-0.5)	Soluble	Solid	300.0	43380
820-7013-5	HA-3 (0-0.5)	Soluble	Solid	300.0	43380
820-7013-6	HA-4 (0.5-1)	Soluble	Solid	300.0	43380
820-7013-7	HS-1 (0-0.5)	Soluble	Solid	300.0	43380
820-7013-8	HS-2 (0-0.5)	Soluble	Solid	300.0	43380
820-7013-9	HS-3 (0-0.5)	Soluble	Solid	300.0	43380
820-7013-10	HS-4 (0-0.5)	Soluble	Solid	300.0	43380
820-7013-11	HS-5 (0-0.5)	Soluble	Solid	300.0	43380
820-7013-12	HS-6 (0-0.5)	Soluble	Solid	300.0	43380
820-7013-13	HS-7 (0-0.5)	Soluble	Solid	300.0	43380
MB 880-43380/1-A	Method Blank	Soluble	Solid	300.0	43380
LCS 880-43380/2-A	Lab Control Sample	Soluble	Solid	300.0	43380
LCSD 880-43380/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	43380
820-7013-5 MS	HA-3 (0-0.5)	Soluble	Solid	300.0	43380
820-7013-5 MSD	HA-3 (0-0.5)	Soluble	Solid	300.0	43380

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

Date Collected: 01/04/23 08:00 Date Received: 01/05/23 16:44

Lab Sample ID: 820-7013-1

Lab Sample ID: 820-7013-3

Lab Sample ID: 820-7013-4

**Matrix: Solid** 

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			4.97 g	5 mL	43479	01/09/23 09:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43471	01/09/23 11:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43558	01/09/23 14:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43489	01/09/23 09:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	43382	01/06/23 12:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43449	01/07/23 12:10	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	43380	01/06/23 12:44	KS	EET MID
Soluble	Analysis	300.0		10			43416	01/06/23 19:59	CH	EET MID

Client Sample ID: HA-1 (0.5-1) Lab Sample ID: 820-7013-2 Date Collected: 01/04/23 08:05 Matrix: Solid

Date Received: 01/05/23 16:44

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	43479	01/09/23 09:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43471	01/09/23 11:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43558	01/09/23 14:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43489	01/09/23 09:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	43382	01/06/23 12:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43449	01/07/23 13:12	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	43380	01/06/23 12:44	KS	EET MID
Soluble	Analysis	300.0		10			43416	01/06/23 20:05	CH	EET MID

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

Date Collected: 01/04/23 08:10

Date Received: 01/05/23 16:44

	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	43479	01/09/23 09:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43471	01/09/23 12:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43558	01/09/23 14:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43489	01/09/23 09:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43382	01/06/23 12:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43449	01/07/23 13:33	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	43380	01/06/23 12:44	KS	EET MID
Soluble	Analysis	300.0		10			43416	01/06/23 20:11	CH	EET MID

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

Date Collected: 01/04/23 08:20

Date Received: 01/05/23 16:44

	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	43479	01/09/23 09:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43471	01/09/23 12:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43558	01/09/23 14:50	AJ	EET MID

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Page 29 of 38

**Matrix: Solid** 

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

Date Collected: 01/04/23 08:20 Date Received: 01/05/23 16:44

Lab Sample ID: 820-7013-4

Matrix: Solid

**Matrix: Solid** 

**Matrix: Solid** 

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA 8015 NM 43489 Analysis 01/09/23 09:38 SM **EET MID** Total/NA Prep 8015NM Prep 10.04 g 10 mL 43382 01/06/23 12:59 DM **EET MID** Total/NA Analysis 8015B NM 1 uL 1 uL 43449 01/07/23 13:53 SM EET MID 5.02 g 43380 01/06/23 12:44 KS Soluble Leach DI Leach 50 mL **EET MID** 300.0 01/06/23 20:17 Soluble Analysis 10 43416 СН **EET MID** 

Lab Sample ID: 820-7013-5

Client Sample ID: HA-3 (0-0.5) Date Collected: 01/04/23 08:30 **Matrix: Solid** 

Date Received: 01/05/23 16:44

	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 mL	43479	01/09/23 09:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43471	01/09/23 12:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43558	01/09/23 14:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43489	01/09/23 09:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	43382	01/06/23 12:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43449	01/07/23 14:14	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	43380	01/06/23 12:44	KS	EET MID
Soluble	Analysis	300.0		10			43416	01/06/23 20:23	CH	EET MID

Client Sample ID: HA-4 (0.5-1) Lab Sample ID: 820-7013-6

Date Collected: 01/04/23 08:40 Date Received: 01/05/23 16:44

	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	43479	01/09/23 09:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43471	01/09/23 13:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43558	01/09/23 14:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43489	01/09/23 09:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	43382	01/06/23 12:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43449	01/07/23 14:35	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	43380	01/06/23 12:44	KS	EET MID
Soluble	Analysis	300.0		10			43416	01/06/23 20:42	CH	EET MID

Client Sample ID: HS-1 (0-0.5) Lab Sample ID: 820-7013-7

Date Collected: 01/04/23 08:50 Date Received: 01/05/23 16:44

	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	43479	01/09/23 09:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43471	01/09/23 15:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43558	01/09/23 16:29	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43489	01/09/23 09:38	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g 1 uL	10 mL 1 uL	43382 43449	01/06/23 12:59 01/07/23 14:56	DM SM	EET MID EET MID

**Eurofins Lubbock** 

Page 30 of 38

Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water Recycle Facility

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

Date Collected: 01/04/23 08:50 Date Received: 01/05/23 16:44

Date Received: 01/05/23 16:44

Lab Sample ID: 820-7013-7

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	43380	01/06/23 12:44	KS	EET MID
Soluble	Analysis	300.0		10			43416	01/06/23 20:48	CH	EET MID

Client Sample ID: HS-2 (0-0.5) Lab Sample ID: 820-7013-8 Date Collected: 01/04/23 08:55

**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			5.02 g	5 mL	43479	01/09/23 09:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43471	01/09/23 16:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43558	01/09/23 16:42	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43489	01/09/23 09:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43382	01/06/23 12:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43449	01/07/23 15:17	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	43380	01/06/23 12:44	KS	EET MID
Soluble	Analysis	300.0		5			43416	01/06/23 21:06	CH	EET MID

Client Sample ID: HS-3 (0-0.5) Lab Sample ID: 820-7013-9

Date Collected: 01/04/23 09:00 **Matrix: Solid** 

Date Received: 01/05/23 16:44

	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	43479	01/09/23 09:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43471	01/09/23 16:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43558	01/10/23 13:28	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43489	01/09/23 09:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43382	01/06/23 12:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43449	01/07/23 15:38	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	43380	01/06/23 12:44	KS	EET MID
Soluble	Analysis	300.0		1			43416	01/06/23 21:12	CH	EET MID

Client Sample ID: HS-4 (0-0.5) Lab Sample ID: 820-7013-10

Date Collected: 01/04/23 09:05 Date Received: 01/05/23 16:44

	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	43479	01/09/23 09:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43471	01/09/23 18:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43558	01/10/23 13:28	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43489	01/09/23 09:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	43382	01/06/23 12:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43449	01/07/23 15:59	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	43380	01/06/23 12:44	KS	EET MIC
Soluble	Analysis	300.0		1			43416	01/06/23 21:19	CH	EET MID

**Eurofins Lubbock** 

**Matrix: Solid** 

Job ID: 820-7013-1

Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water Recycle Facility

Client Sample ID: HS-5 (0-0.5) Lab Sample ID: 820-7013-11 Date Collected: 01/04/23 09:10

Matrix: Solid

Date Received: 01/05/23 16:44

	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 mL	43439	01/06/23 16:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43469	01/09/23 13:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43558	01/09/23 14:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43489	01/09/23 09:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	43382	01/06/23 12:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43449	01/07/23 16:41	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	43380	01/06/23 12:44	KS	EET MID
Soluble	Analysis	300.0		1			43416	01/06/23 21:25	CH	EET MID

Client Sample ID: HS-6 (0-0.5) Lab Sample ID: 820-7013-12

Date Collected: 01/04/23 09:15 Matrix: Solid

Date Received: 01/05/23 16:44

	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 mL	43439	01/06/23 16:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43469	01/09/23 13:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43558	01/09/23 15:12	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43489	01/09/23 09:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43382	01/06/23 12:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43449	01/07/23 17:02	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	43380	01/06/23 12:44	KS	EET MID
Soluble	Analysis	300.0		1			43416	01/06/23 21:31	CH	EET MID

Client Sample ID: HS-7 (0-0.5)

Date Collected: 01/04/23 09:20

Date Received: 01/05/23 16:44

	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	43439	01/06/23 16:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43469	01/09/23 14:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43558	01/09/23 15:12	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43489	01/09/23 11:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43343	01/06/23 08:58	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43315	01/06/23 19:04	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	43380	01/06/23 12:44	KS	EET MID
Soluble	Analysis	300.0		1			43416	01/06/23 21:37	CH	EET MID

Laboratory References:

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

**Eurofins Lubbock** 

Lab Sample ID: 820-7013-13

**Matrix: Solid** 

## **Accreditation/Certification Summary**

Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

#### **Laboratory: Eurofins Midland**

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

Authority	Pr	ogram	Identification Number	<b>Expiration Date</b>
Texas	NE	ELAP	T104704400-22-25	06-30-23
The following analytes	are included in this report, bu	it the laboratory is not certifi	ed by the governing authority. This list ma	av include analytes for y
the agency does not of	fer certification.	•	, , ,	.,
the agency does not of Analysis Method	fer certification.  Prep Method	Matrix	Analyte	.,
0 ,		Matrix Solid	, , ,	

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## **Method Summary**

Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water Recycle Facility

Job ID: 820-7013-1

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

#### **Protocol References:**

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

#### Laboratory References:

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

**Eurofins Lubbock** 

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## **Sample Summary**

Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water Recycle Facility

HS-7 (0-0.5)

820-7013-13

Job ID: 820-7013-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
820-7013-1	HA-1 (0-0.5)	Solid	01/04/23 08:00	01/05/23 16:44
820-7013-2	HA-1 (0.5-1)	Solid	01/04/23 08:05	01/05/23 16:44
320-7013-3	HA-1 (1.5-2)	Solid	01/04/23 08:10	01/05/23 16:44
820-7013-4	HA-2 (0-0.5)	Solid	01/04/23 08:20	01/05/23 16:44
820-7013-5	HA-3 (0-0.5)	Solid	01/04/23 08:30	01/05/23 16:44
820-7013-6	HA-4 (0.5-1)	Solid	01/04/23 08:40	01/05/23 16:44
820-7013-7	HS-1 (0-0.5)	Solid	01/04/23 08:50	01/05/23 16:44
320-7013-8	HS-2 (0-0.5)	Solid	01/04/23 08:55	01/05/23 16:44
820-7013-9	HS-3 (0-0.5)	Solid	01/04/23 09:00	01/05/23 16:44
320-7013-10	HS-4 (0-0.5)	Solid	01/04/23 09:05	01/05/23 16:44
320-7013-11	HS-5 (0-0.5)	Solid	01/04/23 09:10	01/05/23 16:44
820-7013-12	HS-6 (0-0.5)	Solid	01/04/23 09:15	01/05/23 16:44

01/04/23 09:20

01/05/23 16:44

Solid

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Project Variage   1 Guestier	ffice Location    Oject Manager   1. Guesnier	Mobley Water Recycle Mobley Water Recycle HA-1 (0-0.5) HA-1 (0.5-1) HA-2 (0-0.5) HA-2 (0-0.5) HA-3 (0-0.5) HA-3 (0-0.5) HA-1 (0.5-1) HA-1 (0.5-1) HA-2 (0-0.5) HA-3 (0-0.5) HA-1 (0.0.5) HA-1 (0-0.5) HA-1 (0-0.5) HA-1 (0-0.5) HA-2 (0-0.5)	S Sign at tree of the start Depth 1. S. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.			X X X X X BTEX (EPA Method 8021B)  X X X X X X BTEX (EPA Method 8021B)	× × × × × Chloride (EPA Method 300)		ТЕМР ОF COOLER WHEN RECENCE /C; () _ Q ( ( ) , Q (
The Collect Name   1 Courseller	Colect Manager   1. Guesnier	Mobley Water Recycle ntifying Marks of Sample HA-1 (0-0.5) HA-1 (1.5-2) HA-2 (0-0.5) HA-3 (0-0.5) HA-4 (0.5-1) HA-5 (0-0.5) HA-6 (0.5-1) HA-7 (0-0.5) HA-7 (0-0.5) HA-7 (0-0.5) HA-7 (0-0.5) HA-7 (0-0.5) HA-7 (0-0.5) HS-7 (0-0.5)	S Signature 1.5						Page_1Lab Sam
The color of the	roject Manager I. Guesnier  roject Number  KH227027  KH227027  LJ4/2022  8:30  X  1/4/2022  8:40  X  1/4/2022  8:50  X  X  1/4/2022  8:50  X  X  X  X  X  X  X  X  X  X  X  X  X	Mobley Water Recycle HA-1 (0-0.5) HA-1 (0-0.5) HA-2 (0-0.5) HA-2 (0-0.5) HA-3 (0-0.5)	S Sign at ure			<del></del>			Lab Sam
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Time   Cm   Cm   Cm   Cm   Cm   Cm   Cm	### Comp   Comp   Comp   Comp   Comp   Comp   E.20   X   X   X   X   E.30   E.30   X   X   X   X   X   X   X   X   X	$\frac{1}{6}$	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		<del></del>	<del></del>			Lab Sam
Time   C   C   C   C   C   C   C   C   C	Date         Time         ED           1,4/2022         8.00         1,4/2022         8.00           1,4/2022         8.10         1,4/2022         8.10           1,4/2022         8.20         1,4/2022         8.30           1,4/2022         8.50         1,4/2022         8.50           1,4/2022         8.50         1,4/2022         9.00           1,4/2022         9.05         1,4/2022         9.05	Mobley Water Recycle Fac Identifying Marks of Sample(s) HA-1 (0-0.5) HA-1 (0.5-1) HA-2 (0-0.5) HA-2 (0-0.5) HA-4 (0.5-1) HS-1 (0-0.5) HS-2 (0-0.5) HS-2 (0-0.5) HS-2 (0-0.5)	tigal Depti 2	<del></del>		<del></del>			Lab Sam
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830   X	8.50 8.55 9.00	HA-3 (0-0.5) HA-4 (0.5-1) H5-1 (0-0.5) H5-2 (0-0.5) H5-3 (0-0.5)		<del></del>			××		
840         X         HA4 (0.5-1)         0.5         1'         X	8.50 8.55 9.00 9.00	HA-4 (0.5-1) HS-1 (0-0.5) HS-2 (0-0.5) HS-3 (0-0.5)					×		
8:55  X	8:50 8:55 9:00 9:05	HS-1 (0-0.5) HS-2 (0-0.5) HS-3 (0-0.5)				-			
Signature   19.5 (0-0.5)	9:00	HS-2 (0-0.5) HS-3 (0-0.5)				-	×		
9.00  X  H5-4 (0-0.5)  9.10  X  H5-6 (0-0.5)  9.10  X  H5-7 (0-0.5)  9.10  Y  H5-7 (0-0.5)  9.10  Y  H5-7 (0-0.5)  9.10  Y  H5-7 (0-0.5)  9.10  Y  H5-7 (0-0.5)  9.10  Percentally (Supature)  Date:    Image:   I	9:00	HS-3 (0-0.5)				_	×		
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9.15 X HS-6 (0-0.5) O' 0.5' X X X X X X X X X X X X X X X X X X X		HS-4 (0-0.5)	_	1		-	×		
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10   10   10   10   10   10   10   10	9:15	HS-6 (0-0.5)	_				×		
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Matrix VVVV Mustewaler W-VAner 5-5d L-Liquid A-Air Bag C-Charcal Nobe S-S-Shadge S-Shadge Container VOA 4 Graph 134 1 250 ml - Glass wide mouth P10 - Nask container VOA 4 Graph 134 1 250 ml - Glass wide mouth P10 - Nask container VOA 4 Graph 134 1 250 ml - Glass wide mouth	WWW Wastewaler VOA - 40 ml vlat	l - Liquid	c or other	St - Skedge					

Loc: 820 7013

## **Login Sample Receipt Checklist**

Client: Terracon Consulting Eng & Scientists Job Number: 820-7013-1

Login Number: 7013 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	

**Eurofins Lubbock** 

<6mm (1/4").

## **Login Sample Receipt Checklist**

Client: Terracon Consulting Eng & Scientists Job Number: 820-7013-1

Login Number: 7013 **List Source: Eurofins Midland** List Number: 2 List Creation: 01/06/23 11:27 AM

Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Mike Adams
Terracon Consulting Eng & Scientists
5847 50th St
Lubbock, Texas 79424
Generated 1/17/2023 4:21:32 PM

3011014104 171172020 1.21.021 W

# **JOB DESCRIPTION**

Mobley Water Release SDG NUMBER KH227027

# **JOB NUMBER**

890-3836-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



# **Eurofins Carlsbad**

## **Job Notes**

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

# **Authorization**

Generated 1/17/2023 4:21:32 PM

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

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# **Eurofins Carlsbad**

## **Compliance Statement**

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

#### Coliform MCLs

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

#### Warranties, Terms, and Conditions

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

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

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

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

H = field staff performs tests under NJ NELAP certification #PA093, PA NELAP certification # 46-05499

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

MRAMER

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Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water Release

Laboratory Job ID: 890-3836-1 SDG: KH227027

# **Table of Contents**

Cover Page	1
Table of Contents	4
Definitions/Glossary	5
Case Narrative	6
Client Sample Results	7
Surrogate Summary	12
QC Sample Results	13
QC Association Summary	17
Lab Chronicle	19
Certification Summary	21
Method Summary	22
Sample Summary	23
Chain of Custody	24
Receipt Checklists	25

1

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3

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13

### Definitions/Glossary

Client: Terracon Consulting Eng & Scientists

Job ID: 890-3836-1

Project/Site: Mobley Water Release

SDG: KH227027

7027

**Qualifiers** 

**GC VOA** 

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

**GC Semi VOA** 

Qualifier Qualifier Description

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

HPLC/IC

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

**Glossary** 

Abbreviation These commonly used abbreviations may or may not be present in this report.

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

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

 NEG
 Negative / Absent

 POS
 Positive / Present

 PQL
 Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

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

TNTC Too Numerous To Count

#### **Case Narrative**

Client: Terracon Consulting Eng & Scientists
Project/Site: Mobley Water Release

Job ID: 890-3836-1 SDG: KH227027

Job ID: 890-3836-1

**Laboratory: Eurofins Carlsbad** 

Narrative

Job Narrative 890-3836-1

#### Receipt

The samples were received on 1/12/2023 2:32 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 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: Surrogate recovery for the following sample was outside control limits: (LCS 880-44056/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: North Pond SE (890-3836-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: South Pond SE (890-3836-4) and West Release (890-3836-6). 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

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

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## **Client Sample Results**

Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water Release

Job ID: 890-3836-1

SDG: KH227027

## **Client Sample ID: North Pond NW**

Date Collected: 01/12/23 12:00 Date Received: 01/12/23 14:32 Lab Sample ID: 890-3836-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0275		0.00200		mg/L			01/16/23 14:24	1
Toluene	0.00929		0.00200		mg/L			01/16/23 14:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/L			01/16/23 14:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/L			01/16/23 14:24	1
o-Xylene	<0.00200	U	0.00200		mg/L			01/16/23 14:24	1
Xylenes, Total	<0.00400	U	0.00400		mg/L			01/16/23 14:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130					01/16/23 14:24	1
1,4-Difluorobenzene (Surr)	102		70 - 130					01/16/23 14:24	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0368		0.00400		mg/L			01/16/23 17:07	1
Method: SW846 8015 NM - Diese	ol Bango Organ	ice (DBO) (	3C)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<4.59		4.59		mg/L	<u>-</u>		01/17/23 16:53	1
· · · · · · · · · · · · · · · · · · ·					9/=				
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics		U			mg/L		01/16/23 16:49	04/47/00 40 40	
J - J		J	4.59		9/ =		0 17 10/20 10110	01/17/23 10:43	1
(GRO)-C6-C10		· ·	4.59		g/L		0.7.10720 10.10	01/17/23 10:43	1
(GRO)-C6-C10 Diesel Range Organics (Over	<4.59		4.59 4.59		mg/L		01/16/23 16:49	01/17/23 10:43	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)		U	4.59		mg/L		01/16/23 16:49	01/17/23 10:43	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<4.59 <4.59	U			J				
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate	<4.59	U	4.59 4.59 <i>Limits</i>		mg/L		01/16/23 16:49 01/16/23 16:49 <b>Prepared</b>	01/17/23 10:43 01/17/23 10:43 <i>Analyzed</i>	1 1 <i>Dil Fac</i>
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate	<4.59	U	4.59 4.59		mg/L		01/16/23 16:49 01/16/23 16:49	01/17/23 10:43 01/17/23 10:43	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	<4.59	U	4.59 4.59 <i>Limits</i>		mg/L		01/16/23 16:49 01/16/23 16:49 <b>Prepared</b>	01/17/23 10:43 01/17/23 10:43 <i>Analyzed</i>	1 1 1 Dil Fac
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	<4.59  **Recovery 119 112	U U <b>Qualifier</b>	4.59 4.59 <u>Limits</u> 70 - 130		mg/L		01/16/23 16:49 01/16/23 16:49 Prepared 01/16/23 16:49	01/17/23 10:43 01/17/23 10:43 Analyzed 01/17/23 10:43	1 1 <i>Dil Fac</i>
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	<4.59  **Recovery 119 112 s, lon Chromato	U U <b>Qualifier</b>	4.59 4.59 <u>Limits</u> 70 - 130	MDL	mg/L mg/L	D	01/16/23 16:49 01/16/23 16:49 Prepared 01/16/23 16:49	01/17/23 10:43 01/17/23 10:43 Analyzed 01/17/23 10:43	1 1 1 Dil Fac

**Client Sample ID: North Pond SE** 

Date Collected: 01/12/23 12:00 Date Received: 01/12/23 14:32 Lab Sample ID: 890-3836-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0274		0.00200		mg/L			01/16/23 14:44	1
Toluene	0.00927		0.00200		mg/L			01/16/23 14:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/L			01/16/23 14:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/L			01/16/23 14:44	1
o-Xylene	<0.00200	U	0.00200		mg/L			01/16/23 14:44	1
Xylenes, Total	<0.00400	U	0.00400		mg/L			01/16/23 14:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			=		01/16/23 14:44	1
1,4-Difluorobenzene (Surr)	100		70 - 130					01/16/23 14:44	1

## **Client Sample Results**

Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water Release

Job ID: 890-3836-1

SDG: KH227027

**Client Sample ID: North Pond SE** 

Date Collected: 01/12/23 12:00 Date Received: 01/12/23 14:32 Lab Sample ID: 890-3836-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0367		0.00400		mg/L			01/16/23 17:07	1
Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<4.55	U	4.55		mg/L			01/17/23 16:53	1
Method: SW846 8015B NM - Diese	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<4.55	U	4.55		mg/L		01/16/23 16:49	01/17/23 11:06	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<4.55	U	4.55		mg/L		01/16/23 16:49	01/17/23 11:06	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<4.55	U	4.55		mg/L		01/16/23 16:49	01/17/23 11:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130				01/16/23 16:49	01/17/23 11:06	1
o-Terphenyl	126		70 - 130				01/16/23 16:49	01/17/23 11:06	1
Method: MCAWW 300.0 - Anions,	Ion Chromato	graphy							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	91400		500		mg/L			01/17/23 15:56	1000

**Client Sample ID: South Pond NW** 

Date Collected: 01/12/23 12:00

Date Received: 01/12/23 14:32

Lab Sample	ID: 890-3836-3
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**Matrix: Water** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/L			01/16/23 15:05	
Toluene	<0.00200	U	0.00200		mg/L			01/16/23 15:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/L			01/16/23 15:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/L			01/16/23 15:05	1
o-Xylene	<0.00200	U	0.00200		mg/L			01/16/23 15:05	1
Xylenes, Total	<0.00400	U	0.00400		mg/L			01/16/23 15:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130					01/16/23 15:05	1
	105		70 <sub>-</sub> 130					01/16/23 15:05	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
	- Total BTEX Cald								
1,4-Difluorobenzene (Surr)  Method: TAL SOP Total BTEX Analyte  Total BTEX	- Total BTEX Cald	Qualifier		MDL	Unit mg/L	<u>D</u>	Prepared	Analyzed 01/16/23 17:07	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Calc Result <0.00400	Qualifier U	RL 0.00400	MDL		<u>D</u>	Prepared		Dil Fac
Method: TAL SOP Total BTEX Analyte	- Total BTEX Calc Result <0.00400 esel Range Organ	Qualifier U	RL 0.00400	MDL	mg/L	<u>D</u>	Prepared Prepared		Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die	- Total BTEX Calc Result <0.00400 esel Range Organ	Qualifier U ics (DRO) (Qualifier	RL 0.00400		mg/L			01/16/23 17:07	1
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <0.00400 esel Range Organ Result <4.56	Qualifier U ics (DRO) ( Qualifier U	RL 0.00400 ———————————————————————————————		mg/L Unit			01/16/23 17:07  Analyzed	1
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Calc Result <0.00400 esel Range Organ Result <4.56	Qualifier U ics (DRO) ( Qualifier U	RL 0.00400 ———————————————————————————————	MDL	mg/L Unit			01/16/23 17:07  Analyzed	1
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH  Method: SW846 8015B NM - D	- Total BTEX Calc Result <0.00400 esel Range Organ Result <4.56	Qualifier U  ics (DRO) ( Qualifier U  nics (DRO) Qualifier	RL 0.00400 GC) RL 4.56	MDL	mg/L  Unit  mg/L	<u>D</u>	Prepared	01/16/23 17:07  Analyzed  01/17/23 17:01	Dil Fac

Job ID: 890-3836-1 SDG: KH227027

Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water Release

Date Received: 01/12/23 14:32

**Client Sample ID: South Pond NW** Date Collected: 01/12/23 12:00

Lab Sample ID: 890-3836-3 **Matrix: Water** 

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL (	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<4.56	U	4.56	r	mg/L		01/16/23 16:49	01/17/23 09:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				01/16/23 16:49	01/17/23 09:59	1
o-Terphenyl	120		70 - 130				01/16/23 16:49	01/17/23 09:59	1

Method: MCAWW 300.0 - Anions, Ion Chromatography										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	888		10.0		mg/L			01/16/23 18:51	20

Client Sample ID: South Pond SE

Lab Sample ID: 890-3836-4 Date Collected: 01/12/23 12:00 **Matrix: Water** Date Received: 01/12/23 14:32

Method: SW846 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier MDL Unit D Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 01/16/23 15:25 mg/L Toluene <0.00200 U 0.00200 01/16/23 15:25 mg/L Ethylbenzene <0.00200 U 0.00200 01/16/23 15:25 mg/L m-Xylene & p-Xylene <0.00400 U 0.00400 01/16/23 15:25 mg/L o-Xylene <0.00200 U 0.00200 mg/L 01/16/23 15:25 <0.00400 U 01/16/23 15:25 Xylenes, Total 0.00400 mg/L %Recovery Qualifier Limits Analyzed Dil Fac Surrogate Prepared 4-Bromofluorobenzene (Surr) 117 70 - 130 01/16/23 15:25 1,4-Difluorobenzene (Surr) 105 70 - 130 01/16/23 15:25 Method: TAL SOP Total BTEX - Total BTEX Calculation

Welliou. TAL SOP Total BTEX - Tota	I DIEA Calc	uiation						
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/L			01/16/23 17:07	1
_								

Method: SW846 8015 NM - Diesel Range	Organ	ics (DRO) (G0	<b>;</b> )					
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<4.55	U	4.55	mg/L			01/17/23 17:01	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<4.55	U	4.55		mg/L		01/16/23 16:49	01/17/23 10:21	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<4.55	U	4.55		mg/L		01/16/23 16:49	01/17/23 10:21	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<4.55	U	4.55		mg/L		01/16/23 16:49	01/17/23 10:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130				01/16/23 16:49	01/17/23 10:21	1
o-Terphenvl	131	S1+	70 - 130				01/16/23 16:49	01/17/23 10:21	1

Method: MCAWW 300.0 - Anions, I	Method: MCAWW 300.0 - Anions, Ion Chromatography										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	819		10.0		mg/L			01/16/23 18:57	20		

## **Client Sample Results**

Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water Release

Job ID: 890-3836-1

SDG: KH227027

**Client Sample ID: East Release** 

Date Collected: 01/12/23 13:40 Date Received: 01/12/23 14:32 Lab Sample ID: 890-3836-5

**Matrix: Water** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/L			01/16/23 15:46	1
Toluene	<0.00200	U	0.00200		mg/L			01/16/23 15:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/L			01/16/23 15:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/L			01/16/23 15:46	1
o-Xylene	<0.00200	U	0.00200		mg/L			01/16/23 15:46	1
Xylenes, Total	<0.00400	U	0.00400		mg/L			01/16/23 15:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130					01/16/23 15:46	1
1,4-Difluorobenzene (Surr)	106		70 - 130					01/16/23 15:46	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/L			01/16/23 17:07	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (	GC)						
Analyte	Result	Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	
		Qualifier	•	MDL	Unit mg/L	<u>D</u>	Prepared	Analyzed 01/17/23 17:01	
Analyte Total TPH	Result   <4.55	Qualifier U	RL 4.55	MDL		<u>D</u>	Prepared		
	Result <4.55	Qualifier U	RL 4.55	MDL	mg/L	<u>D</u>	Prepared Prepared		1
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte	Result <4.55	Qualifier Unics (DRO) Qualifier	RL 4.55		mg/L			01/17/23 17:01	1 Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	Result <4.55 sel Range Orga Result <4.55	Qualifier U  nics (DRO) Qualifier U	RL 4.55  (GC) RL 4.55		mg/L		Prepared 01/16/23 16:49	01/17/23 17:01  Analyzed  01/17/23 10:43	1 Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <4.55 sel Range Orga	Qualifier U  nics (DRO) Qualifier U	RL 4.55 (GC)		mg/L		Prepared	01/17/23 17:01  Analyzed	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <4.55 sel Range Orga Result <4.55 <4.55	Qualifier U  nics (DRO) Qualifier U	RL 4.55  (GC) RL 4.55  4.55		mg/L  Unit mg/L  mg/L		Prepared 01/16/23 16:49 01/16/23 16:49	01/17/23 17:01  Analyzed  01/17/23 10:43  01/17/23 10:43	1 Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <4.55 sel Range Orga Result <4.55	Qualifier U  nics (DRO) Qualifier U	RL 4.55  (GC) RL 4.55		mg/L  Unit mg/L		Prepared 01/16/23 16:49	01/17/23 17:01  Analyzed  01/17/23 10:43	1 Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <4.55 sel Range Orga Result <4.55 <4.55	Qualifier U  nics (DRO) Qualifier U  U	RL 4.55  (GC) RL 4.55  4.55		mg/L  Unit mg/L  mg/L		Prepared 01/16/23 16:49 01/16/23 16:49	01/17/23 17:01  Analyzed  01/17/23 10:43  01/17/23 10:43	1 Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U  nics (DRO) Qualifier U  U	RL 4.55  (GC)  RL 4.55  4.55  4.55		mg/L  Unit mg/L  mg/L		Prepared 01/16/23 16:49 01/16/23 16:49 01/16/23 16:49	01/17/23 17:01  Analyzed 01/17/23 10:43 01/17/23 10:43	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate	Result	Qualifier U  nics (DRO) Qualifier U  U	RL 4.55  (GC)  RL 4.55  4.55  4.55  Limits		mg/L  Unit mg/L  mg/L		Prepared 01/16/23 16:49 01/16/23 16:49 01/16/23 16:49 Prepared	01/17/23 17:01  Analyzed 01/17/23 10:43 01/17/23 10:43 01/17/23 10:43  Analyzed	Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	Result   <4.55	Qualifier U  nics (DRO) Qualifier U  U  Qualifier	RL 4.55  (GC)  RL 4.55  4.55  4.55  Limits 70 - 130		mg/L  Unit mg/L  mg/L		Prepared 01/16/23 16:49 01/16/23 16:49 01/16/23 16:49  Prepared 01/16/23 16:49	01/17/23 17:01  Analyzed 01/17/23 10:43  01/17/23 10:43  Analyzed 01/17/23 10:43	Dil Fac  1  1  Dil Fac
Analyte Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U  nics (DRO) Qualifier U  U  Qualifier	RL 4.55  (GC)  RL 4.55  4.55  4.55  Limits 70 - 130		mg/L  Unit mg/L  mg/L  mg/L		Prepared 01/16/23 16:49 01/16/23 16:49 01/16/23 16:49  Prepared 01/16/23 16:49	01/17/23 17:01  Analyzed 01/17/23 10:43  01/17/23 10:43  Analyzed 01/17/23 10:43	1 <b>Dil Fac</b>

**Client Sample ID: West Release** Lab Sample ID: 890-3836-6 Date Collected: 01/12/23 13:45 **Matrix: Water** 

Date Received: 01/12/23 14:32

Method: SW846 8021B - Volatile Organic Compounds (GC) Result Qualifier Analyte MDL Unit D Dil Fac RL Prepared Analyzed Benzene <0.00200 U 0.00200 mg/L 01/16/23 16:06 Toluene <0.00200 U 0.00200 mg/L 01/16/23 16:06 Ethylbenzene <0.00200 U 0.00200 mg/L 01/16/23 16:06 m-Xylene & p-Xylene <0.00400 U 0.00400 mg/L 01/16/23 16:06 o-Xylene <0.00200 U 0.00200 mg/L 01/16/23 16:06 <0.00400 U 0.00400 01/16/23 16:06 Xylenes, Total mg/L %Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed 121 70 - 130 01/16/23 16:06 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) 104 70 - 130 01/16/23 16:06

## **Client Sample Results**

Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water Release

Job ID: 890-3836-1

SDG: KH227027

**Client Sample ID: West Release** 

Date Collected: 01/12/23 13:45 Date Received: 01/12/23 14:32

Lab Sample ID: 890-3836-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/L			01/16/23 17:07	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<4.56	U	4.56		mg/L			01/17/23 17:01	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<4.56	U	4.56		mg/L		01/16/23 16:49	01/17/23 11:06	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<4.56	U	4.56		mg/L		01/16/23 16:49	01/17/23 11:06	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<4.56	U	4.56		mg/L		01/16/23 16:49	01/17/23 11:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130				01/16/23 16:49	01/17/23 11:06	1
o-Terphenyl	134	S1+	70 - 130				01/16/23 16:49	01/17/23 11:06	1
Method: MCAWW 300.0 - Anions	, Ion Chromato	graphy							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1010		10.0		mg/L			01/16/23 19:25	20

Released to Imaging: 6/10/2025 2:35:50 PM

## **Surrogate Summary**

Client: Terracon Consulting Eng & Scientists

Job ID: 890-3836-1

Project/Site: Mobley Water Release

SDG: KH227027

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Water Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3808-A-1-D MS	Matrix Spike	111	102	
890-3808-A-1-E MSD	Matrix Spike Duplicate	112	103	
890-3836-1	North Pond NW	111	102	
890-3836-2	North Pond SE	108	100	
890-3836-3	South Pond NW	119	105	
890-3836-4	South Pond SE	117	105	
890-3836-5	East Release	123	106	
890-3836-6	West Release	121	104	
LCS 880-43748/1-A	Lab Control Sample	111	100	
LCS 880-43960/3	Lab Control Sample	107	102	
LCSD 880-43748/2-A	Lab Control Sample Dup	112	105	
LCSD 880-43960/4	Lab Control Sample Dup	112	103	
MB 880-43960/8	Method Blank	110	99	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Water Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3836-1	North Pond NW	119	112	
890-3836-2	North Pond SE	136 S1+	126	
890-3836-3	South Pond NW	112	120	
890-3836-4	South Pond SE	120	131 S1+	
890-3836-5	East Release	118	128	
890-3836-6	West Release	124	134 S1+	
LCS 880-44056/2-A	Lab Control Sample	160 S1+	154 S1+	
LCSD 880-44056/3-A	Lab Control Sample Dup	113	97	
MB 880-44056/1-A	Method Blank	102	100	
MB 880-44056/1-A	Method Blank	89	101	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Terracon Consulting Eng & Scientists Job ID: 890-3836-1 Project/Site: Mobley Water Release SDG: KH227027

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: LCS 880-43748/1-A

Lab Sample ID: LCSD 880-43748/2-A

Analysis Batch: 43960

**Matrix: Water** 

**Matrix: Water** 

Analysis Batch: 43960

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA Prep Batch: 43748

		Spike	LCS	LCS				%Rec	
	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Benzene	0.100	0.1121		mg/L		112	70 - 130	
	Toluene	0.100	0.1077		mg/L		108	70 - 130	
	Ethylbenzene	0.100	0.1052		mg/L		105	70 - 130	
	m-Xylene & p-Xylene	0.200	0.2165		mg/L		108	70 - 130	
	o-Xylene	0.100	0.1024		mg/L		102	70 - 130	
ı									

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 43748

Spike LCSD LCSD RPD %Rec Added Result Qualifier Limits Limit Analyte Unit %Rec RPD Benzene 0.100 0.1159 mg/L 116 70 - 130 3 20 Toluene 0.100 0.1086 mg/L 109 70 - 130 20 0.100 0.1066 70 - 130 Ethylbenzene mg/L 107 20 0.200 0.2192 m-Xylene & p-Xylene mg/L 110 70 - 130 20 0.100 0.1045 105 o-Xylene mg/L 70 - 130 2 20

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1.4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 890-3808-A-1-D MS

**Matrix: Water** 

Analysis Batch: 43960

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

Prep Batch: 43748

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.101	0.09870	-	mg/L		98	70 - 130	
Toluene	<0.00200	U	0.101	0.09623		mg/L		95	70 - 130	
Ethylbenzene	<0.00200	U	0.101	0.09472		mg/L		94	70 - 130	
m-Xylene & p-Xylene	<0.00401	U	0.202	0.1946		mg/L		96	70 - 130	
o-Xylene	<0.00200	U	0.101	0.09494		mg/L		94	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	111	70 - 130
1,4-Difluorobenzene (Surr)	102	70 - 130

Lab Sample ID: 890-3808-A-1-E MSD

**Matrix: Water** 

Analysis Batch: 43960

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 43748

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.0996	0.1006		mg/L		101	70 - 130	2	25
Toluene	<0.00200	U	0.0996	0.09733		mg/L		98	70 - 130	1	25
Ethylbenzene	<0.00200	U	0.0996	0.09546		mg/L		96	70 - 130	1	25

Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water Release

Job ID: 890-3836-1

SDG: KH227027

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

Lab Sample ID: 890-3808-A-1-E MSD

**Matrix: Water** 

Analysis Batch: 43960

Client Sample II	: Matrix Spike Duplicate
	Pron Type: Total/NA

Prep Batch: 43748

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	י כ	%Rec	Limits	RPD	Limit
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1956		mg/L		98	70 - 130	1	25
o-Xylene	<0.00200	U	0.0996	0.09472		mg/L		95	70 - 130	0	25

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Client Sample ID: Method Blank

Prep Type: Total/NA

Analysis Batch: 43960

**Matrix: Water** 

Lab Sample ID: MB 880-43960/8

мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/L			01/16/23 12:24	1
Toluene	<0.00200	U	0.00200		mg/L			01/16/23 12:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/L			01/16/23 12:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/L			01/16/23 12:24	1
o-Xylene	<0.00200	U	0.00200		mg/L			01/16/23 12:24	1
Xylenes, Total	<0.00400	U	0.00400		mg/L			01/16/23 12:24	1

MB MB

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	_		01/16/23 12:24	1
1,4-Difluorobenzene (Surr)	99		70 - 130			01/16/23 12:24	1

Lab Sample ID: LCS 880-43960/3

**Matrix: Water** 

Analysis Batch: 43960

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

Spike LCS LCS %Rec Added %Rec Analyte Result Qualifier Limits Unit Benzene 0.100 0.08048 mg/L 80 70 - 130 Toluene 0.100 0.07590 mg/L 76 70 - 130 Ethylbenzene 0.100 0.07495 mg/L 75 70 - 130 m-Xylene & p-Xylene 0.200 0.1570 mg/L 78 70 - 130 0.100 0.07607 o-Xylene mg/L 76 70 - 130

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	107	70 - 130
1,4-Difluorobenzene (Surr)	102	70 - 130

Lab Sample ID: LCSD 880-43960/4

**Matrix: Water** 

**Analysis Batch: 43960** 

Client Sample ID: Lab	<b>Control Sample Dup</b>
	Pron Type: Total/NA

Prep Type: Total/NA

Analysis Baton. 40000	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09731		mg/L		97	70 - 130	19	20
Toluene	0.100	0.09297		mg/L		93	70 - 130	20	20
Ethylbenzene	0.100	0.09031		mg/L		90	70 - 130	19	20
m-Xylene & p-Xylene	0.200	0.1867		mg/L		93	70 - 130	17	20
o-Xylene	0.100	0.09010		mg/L		90	70 - 130	17	20

Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water Release

Job ID: 890-3836-1

SDG: KH227027

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

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

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

Lab Sample ID: MB 880-44056/1-A

**Matrix: Water** 

Analyte

**Analysis Batch: 44121** 

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 44056

MB MB Result Qualifier Dil Fac RL MDL Unit D Prepared Analyzed <5.00 U 5.00 mg/L 01/16/23 16:49 01/17/23 08:06 01/16/23 16:49 01/17/23 08:06 <5.00 U 5.00 mg/L

Gasoline Range Organics (GRO)-C6-C10 Gasoline Range Organics (GRO)-C6-C10 <5.00 U 5 00 01/16/23 16:49 01/17/23 08:06 Diesel Range Organics (Over mg/L C10-C28) <5.00 U 5.00 01/16/23 16:49 01/17/23 08:06 Diesel Range Organics (Over mg/L C10-C28) Oll Range Organics (Over C28-C36) <5.00 U 5.00 01/16/23 16:49 01/17/23 08:06 mg/L OII Range Organics (Over C28-C36) <5.00 U 5.00 01/16/23 16:49 01/17/23 08:06 mg/L

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 102 70 - 130 01/16/23 16:49 01/17/23 08:06 70 - 130 89 01/17/23 08:06 1-Chlorooctane 01/16/23 16:49 100 70 - 130 01/16/23 16:49 01/17/23 08:06 o-Terphenyl o-Terphenyl 101 70 - 130 01/16/23 16:49 01/17/23 08:06

Lab Sample ID: LCS 880-44056/2-A

**Matrix: Water** 

Analysis Batch: 44121

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

Prep Batch: 44056

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Gasoline Range Organics 100 80.06 mg/L 80 75 - 125 (GRO)-C6-C10 75 - 125 100 87.47 mg/L 87 Diesel Range Organics (Over C10-C28)

LCS LCS Surrogate %Recovery Qualifier Limits S1+ 70 - 130 1-Chlorooctane 160 o-Terphenyl 154 S1+ 70 - 130

Lab Sample ID: LCSD 880-44056/3-A

**Matrix: Water** 

**Analysis Batch: 44121** 

Client Sample ID: Lab Control Sample Du
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Prep Type: Total/NA Prep Batch: 44056

Spike LCSD LCSD %Rec RPD Limit Analyte Added Result Qualifier Unit D %Rec Limits RPD 100 94.78 95 20 Gasoline Range Organics mg/L 75 - 125 17 (GRO)-C6-C10 Diesel Range Organics (Over 100 82.06 mg/L 82 75 - 125 20 C10-C28)

LCSD LCSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 113 70 - 130

RL

0.500

Spike

Added

25.0

Spike

Added

25.0

Spike

Added

25.0

MDL Unit

LCS LCS

LCSD LCSD

MS MS

Qualifier

Qualifier

25.65

Result

25.66

Result

32.28

Result Qualifier

mg/L

Unit

mg/L

Unit

mg/L

Unit

mg/L

D

D

Prepared

%Rec

%Rec

%Rec

108

103

103

Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water Release

Job ID: 890-3836-1

SDG: KH227027

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

Lab Sample ID: LCSD 880-44056/3-A

**Matrix: Water** Analysis Batch: 44121

LCSD LCSD

%Recovery Qualifier

U

Client Sample ID: Lab Control Sample Dup

Client Sample ID: Method Blank

Analyzed

01/16/23 17:51

Client Sample ID: Lab Control Sample

%Rec

Limits

90 - 110

%Rec

Limits

90 - 110

%Rec

Limits

Client Sample ID: Matrix Spike Duplicate

%Rec

90 - 110

Client Sample ID: Matrix Spike

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

RPD

Prep Type: Total/NA

Prep Type: Total/NA

Dil Fac

RPD

Limit

RPD

20

20

Prep Batch: 44056

Surrogate Limits o-Terphenyl 97 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-44139/3

Matrix: Water

**Matrix: Water** 

**Analysis Batch: 44139** 

MB MB

Analyte Result Qualifier

Chloride <0.500

Lab Sample ID: LCS 880-44139/4

**Analysis Batch: 44139** 

Analyte

Chloride

Lab Sample ID: LCSD 880-44139/5

**Matrix: Water** 

**Analysis Batch: 44139** 

Analyte Chloride

Lab Sample ID: 880-23714-A-1 MS

**Matrix: Water** 

Analysis Batch: 44139

Analyte Chloride

Lab Sample ID: 880-23714-A-1 MSD

**Analysis Batch: 44139** 

**Matrix: Water** 

Sample Sample Spike Result Qualifier Analyte Chloride 5.34

Added 25.0

Sample Sample

Result

5.34

Qualifier

Qualifier Result 32 47

MSD MSD Unit mg/L

%Rec 109

Limits RPD Limit 90 - 110

## **QC Association Summary**

Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water Release

Job ID: 890-3836-1 SDG: KH227027

GC VOA

Prep Batch: 43748

Lab Sample ID LCS 880-43748/1-A	Client Sample ID Lab Control Sample	Prep Type Total/NA	Matrix Water	Method 5035	Prep Batch
LCSD 880-43748/2-A	Lab Control Sample Dup	Total/NA	Water	5035	
890-3808-A-1-D MS	Matrix Spike	Total/NA	Water	5035	
890-3808-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Water	5035	

#### Analysis Batch: 43960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3836-1	North Pond NW	Total/NA	Water	8021B	
890-3836-2	North Pond SE	Total/NA	Water	8021B	
890-3836-3	South Pond NW	Total/NA	Water	8021B	
890-3836-4	South Pond SE	Total/NA	Water	8021B	
890-3836-5	East Release	Total/NA	Water	8021B	
890-3836-6	West Release	Total/NA	Water	8021B	
MB 880-43960/8	Method Blank	Total/NA	Water	8021B	
LCS 880-43748/1-A	Lab Control Sample	Total/NA	Water	8021B	43748
LCS 880-43960/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-43748/2-A	Lab Control Sample Dup	Total/NA	Water	8021B	43748
LCSD 880-43960/4	Lab Control Sample Dup	Total/NA	Water	8021B	
890-3808-A-1-D MS	Matrix Spike	Total/NA	Water	8021B	43748
890-3808-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Water	8021B	43748

#### Analysis Batch: 44119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3836-1	North Pond NW	Total/NA	Water	Total BTEX	
890-3836-2	North Pond SE	Total/NA	Water	Total BTEX	
890-3836-3	South Pond NW	Total/NA	Water	Total BTEX	
890-3836-4	South Pond SE	Total/NA	Water	Total BTEX	
890-3836-5	East Release	Total/NA	Water	Total BTEX	
890-3836-6	West Release	Total/NA	Water	Total BTEX	

#### GC Semi VOA

### Prep Batch: 44056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3836-1	North Pond NW	Total/NA	Water	8015NM Aq Prep	
890-3836-2	North Pond SE	Total/NA	Water	8015NM Aq Prep	
890-3836-3	South Pond NW	Total/NA	Water	8015NM Aq Prep	
890-3836-4	South Pond SE	Total/NA	Water	8015NM Aq Prep	
890-3836-5	East Release	Total/NA	Water	8015NM Aq Prep	
890-3836-6	West Release	Total/NA	Water	8015NM Aq Prep	
MB 880-44056/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 880-44056/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 880-44056/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

### Analysis Batch: 44121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3836-1	North Pond NW	Total/NA	Water	8015B NM	44056
890-3836-2	North Pond SE	Total/NA	Water	8015B NM	44056
MB 880-44056/1-A	Method Blank	Total/NA	Water	8015B NM	44056
LCS 880-44056/2-A	Lab Control Sample	Total/NA	Water	8015B NM	44056
LCSD 880-44056/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	44056

**Eurofins Carlsbad** 

Released to Imaging: 6/10/2025 2:35:50 PM

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## **QC Association Summary**

Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water Release

Job ID: 890-3836-1 SDG: KH227027

### GC Semi VOA

#### Analysis Batch: 44123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3836-3	South Pond NW	Total/NA	Water	8015B NM	44056
890-3836-4	South Pond SE	Total/NA	Water	8015B NM	44056
890-3836-5	East Release	Total/NA	Water	8015B NM	44056
890-3836-6	West Release	Total/NA	Water	8015B NM	44056
MB 880-44056/1-A	Method Blank	Total/NA	Water	8015B NM	44056

#### Analysis Batch: 44202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3836-1	North Pond NW	Total/NA	Water	8015 NM	
890-3836-2	North Pond SE	Total/NA	Water	8015 NM	
890-3836-3	South Pond NW	Total/NA	Water	8015 NM	
890-3836-4	South Pond SE	Total/NA	Water	8015 NM	
890-3836-5	East Release	Total/NA	Water	8015 NM	
890-3836-6	West Release	Total/NA	Water	8015 NM	

#### **HPLC/IC**

#### Analysis Batch: 44139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3836-1	North Pond NW	Total/NA	Water	300.0	_
890-3836-2	North Pond SE	Total/NA	Water	300.0	
890-3836-3	South Pond NW	Total/NA	Water	300.0	
890-3836-4	South Pond SE	Total/NA	Water	300.0	
890-3836-5	East Release	Total/NA	Water	300.0	
890-3836-6	West Release	Total/NA	Water	300.0	
MB 880-44139/3	Method Blank	Total/NA	Water	300.0	
LCS 880-44139/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 880-44139/5	Lab Control Sample Dup	Total/NA	Water	300.0	
880-23714-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
880-23714-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

**Eurofins Carlsbad** 

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Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water Release

Date Received: 01/12/23 14:32

Job ID: 890-3836-1 SDG: KH227027

**Client Sample ID: North Pond NW** Lab Sample ID: 890-3836-1 Date Collected: 01/12/23 12:00

**Matrix: Water** 

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	43960	01/16/23 14:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44119	01/16/23 17:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44202	01/17/23 16:53	SM	EET MID
Total/NA	Prep	8015NM Aq Prep			32.7 mL	3 mL	44056	01/16/23 16:49	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44121	01/17/23 10:43	SM	EET MID
Total/NA	Analysis	300 0		1000			44139	01/16/23 18:39	CH	FFT MID

**Client Sample ID: North Pond SE** 

Lab Sample ID: 890-3836-2

Date Collected: 01/12/23 12:00 **Matrix: Water** Date Received: 01/12/23 14:32

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	43960	01/16/23 14:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44119	01/16/23 17:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44202	01/17/23 16:53	SM	EET MID
Total/NA	Prep	8015NM Aq Prep			33 mL	3 mL	44056	01/16/23 16:49	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44121	01/17/23 11:06	SM	EET MID
Total/NA	Analysis	300.0		1000			44139	01/17/23 15:56	СН	EET MID

**Client Sample ID: South Pond NW** 

Lab Sample ID: 890-3836-3 Date Collected: 01/12/23 12:00 **Matrix: Water** 

Date Received: 01/12/23 14:32

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	43960	01/16/23 15:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44119	01/16/23 17:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44202	01/17/23 17:01	SM	EET MID
Total/NA	Prep	8015NM Aq Prep			32.9 mL	3 mL	44056	01/16/23 16:49	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44123	01/17/23 09:59	SM	EET MID
Total/NA	Analysis	300.0		20			44139	01/16/23 18:51	CH	EET MID

Client Sample ID: South Pond SE

Lab Sample ID: 890-3836-4

Date Collected: 01/12/23 12:00 **Matrix: Water** Date Received: 01/12/23 14:32

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	43960	01/16/23 15:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44119	01/16/23 17:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44202	01/17/23 17:01	SM	EET MID
Total/NA	Prep	8015NM Aq Prep			33 mL	3 mL	44056	01/16/23 16:49	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44123	01/17/23 10:21	SM	EET MID
Total/NA	Analysis	300.0		20			44139	01/16/23 18:57	CH	EET MID

### **Lab Chronicle**

Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water Release

Job ID: 890-3836-1

SDG: KH227027

**Client Sample ID: East Release** 

Date Collected: 01/12/23 13:40 Date Received: 01/12/23 14:32 Lab Sample ID: 890-3836-5

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	43960	01/16/23 15:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44119	01/16/23 17:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44202	01/17/23 17:01	SM	EET MID
Total/NA	Prep	8015NM Aq Prep			33 mL	3 mL	44056	01/16/23 16:49	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44123	01/17/23 10:43	SM	EET MID
Total/NA	Analysis	300.0		20			44139	01/16/23 19:19	СН	EET MID

**Client Sample ID: West Release** 

Date Collected: 01/12/23 13:45

Date Received: 01/12/23 14:32

Lab Sample ID: 890-3836-6

**Matrix: Water** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	43960	01/16/23 16:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44119	01/16/23 17:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			44202	01/17/23 17:01	SM	EET MID
Total/NA	Prep	8015NM Aq Prep			32.9 mL	3 mL	44056	01/16/23 16:49	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44123	01/17/23 11:06	SM	EET MID
Total/NA	Analysis	300.0		20			44139	01/16/23 19:25	CH	EET MID

Laboratory References:

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

# **Accreditation/Certification Summary**

Client: Terracon Consulting Eng & Scientists

Job ID: 890-3836-1 Project/Site: Mobley Water Release SDG: KH227027

#### **Laboratory: Eurofins Midland**

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

		rogram	Identification Number	Expiration Date 06-30-23	
		IELAP	T104704400-22-25		
The following analytes the agency does not of	• •	out the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes for whic	
Analysis Method	Prep Method	Matrix	Analyte		
300.0		Water	Chloride		
300.0 8015 NM		Water Water	Chloride Total TPH		

## **Method Summary**

Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water Release

Job ID: 890-3836-1

SDG: KH227027

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5030B	Purge and Trap	SW846	EET MID
8015NM Aq Prep	Microextraction	SW846	EET MID

#### 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:

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

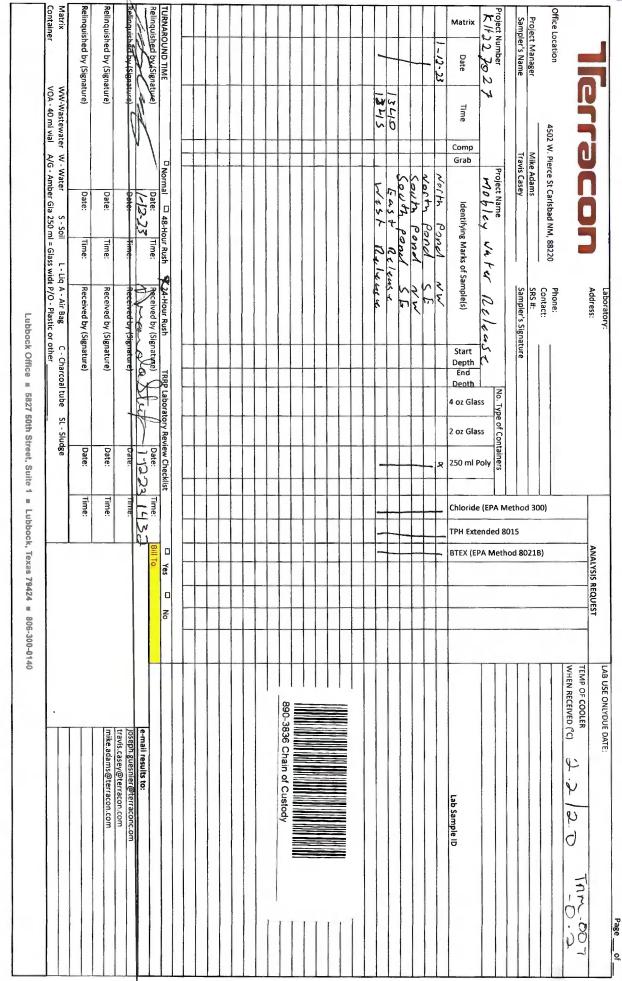
## **Sample Summary**

Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water Release

Job ID: 890-3836-1

SDG: KH227027

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-3836-1	North Pond NW	Water	01/12/23 12:00	01/12/23 14:32
890-3836-2	North Pond SE	Water	01/12/23 12:00	01/12/23 14:32
890-3836-3	South Pond NW	Water	01/12/23 12:00	01/12/23 14:32
890-3836-4	South Pond SE	Water	01/12/23 12:00	01/12/23 14:32
890-3836-5	East Release	Water	01/12/23 13:40	01/12/23 14:32
890-3836-6	West Release	Water	01/12/23 13:45	01/12/23 14:32



## **Login Sample Receipt Checklist**

Client: Terracon Consulting Eng & Scientists

Job Number: 890-3836-1

SDG Number: KH227027

Login Number: 3836 List Source: Eurofins Carlsbad

List Number: 1

Creator: Stutzman, Amanda

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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## **Login Sample Receipt Checklist**

Client: Terracon Consulting Eng & Scientists

Job Number: 890-3836-1

SDG Number: KH227027

Login Number: 3836
List Source: Eurofins Midland
List Number: 2
List Creation: 01/16/23 02:08 PM

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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<6mm (1/4").

**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Joseph Guesnier Terracon Consulting Eng & Scientists 5847 50th St Lubbock, Texas 79424

Generated 2/24/2023 2:09:37 PM

## **JOB DESCRIPTION**

Mobley Water SDG NUMBER Eddy

## **JOB NUMBER**

890-4131-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



# **Eurofins Carlsbad**

## **Job Notes**

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

## **Authorization**

Generated 2/24/2023 2:09:37 PM

Authorized for release by Jessica Kramer, Project Manager Jessica.Kramer@et.eurofinsus.com (432)704-5440

# **Eurofins Carlsbad**

## **Compliance Statement**

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

#### Coliform MCLs

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

#### Warranties, Terms, and Conditions

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

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

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

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

H = field staff performs tests under NJ NELAP certification #PA093, PA NELAP certification # 46-05499

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

MRAMER

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Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water

Laboratory Job ID: 890-4131-1 SDG: Eddy

# **Table of Contents**

Cover Page	1
Table of Contents	4
Definitions/Glossary	5
Case Narrative	6
Client Sample Results	7
Surrogate Summary	10
QC Sample Results	11
QC Association Summary	14
Lab Chronicle	16
Certification Summary	17
Method Summary	18
Sample Summary	19
Chain of Custody	20
Receint Checklists	21

## **Definitions/Glossary**

Job ID: 890-4131-1 Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water

SDG: Eddy

**Qualifiers** 

**GC VOA** 

Qualifier **Qualifier Description** 

Indicates the analyte was analyzed for but not detected.

**GC Semi VOA** 

Qualifier **Qualifier Description** 

\*1 LCS/LCSD RPD exceeds control limits.

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

**HPLC/IC** 

Qualifier **Qualifier Description** 

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

Percent Recovery %R CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor** 

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

**EDL** Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE) MCL EPA recommended "Maximum Contaminant Level"

Minimum Detectable Activity (Radiochemistry) MDA

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML MPN Most Probable Number Method Quantitation Limit MQL

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)

Reporting Limit or Requested Limit (Radiochemistry) RL

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: Mobley Water

Job ID: 890-4131-1

SDG: Eddy

Job ID: 890-4131-1

**Laboratory: Eurofins Carlsbad** 

Narrative

Job Narrative 890-4131-1

#### Receipt

The samples were received on 2/17/2023 10:19 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 0.8°C

#### **Receipt Exceptions**

The following samples were received and analyzed from an unpreserved bulk soil jar: N-SW01 (890-4131-1), E-SW01 (890-4131-2) and FS04 (890-4131-3).

#### **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 RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-47003 and analytical batch 880-46994 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28).

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.

**Eurofins Carlsbad** 2/24/2023

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water

Job ID: 890-4131-1

SDG: Eddy

Client Sample ID: N-SW01

Date Collected: 02/17/23 08:00 Date Received: 02/17/23 10:19

Lab Sample ID: 890-4131-1

Matrix: Solid

Sample Depth: 0-4'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/23/23 09:25	02/24/23 05:36	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/23/23 09:25	02/24/23 05:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/23/23 09:25	02/24/23 05:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/23/23 09:25	02/24/23 05:36	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/23/23 09:25	02/24/23 05:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/23/23 09:25	02/24/23 05:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130				02/23/23 09:25	02/24/23 05:36	1
1,4-Difluorobenzene (Surr)	76		70 - 130				02/23/23 09:25	02/24/23 05:36	1
- Method: TAL SOP Total BTEX - 1	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/24/23 14:46	1
Method: SW846 8015 NM - Diese Analyte Total TPH		Qualifier	GC)  RL  50.0	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 02/23/23 16:21	Dil Fac
- - Mathad: CWO4C CO4ED NM Disc	nal Banna Over	rice (DDO)	(00)						
Method: SW846 8015B NM - Dies Analyte		Qualifier	(GC)	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	- <del>Kesuit</del>		50.0	MIDL	mg/Kg		02/23/23 09:12	02/23/23 15:43	1
(GRO)-C6-C10	100.0	0 1	00.0		mg/rtg		02/20/20 03.12	02/20/20 10.40	
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		02/23/23 09:12	02/23/23 15:43	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/23/23 09:12	02/23/23 15:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				02/23/23 09:12	02/23/23 15:43	1
o-Terphenyl	90		70 - 130				02/23/23 09:12	02/23/23 15:43	1
Method: EPA 300.0 - Anions, Ion	Chromatogran	hy - Solubl	e						

Client Sample ID: E-SW01

Date Collected: 02/17/23 08:05

Date Received: 02/17/23 10:19

Sample Depth: 0-4'

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/23/23 09:25	02/24/23 05:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/23/23 09:25	02/24/23 05:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/23/23 09:25	02/24/23 05:56	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/23/23 09:25	02/24/23 05:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/23/23 09:25	02/24/23 05:56	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/23/23 09:25	02/24/23 05:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				02/23/23 09:25	02/24/23 05:56	

4.97

mg/Kg

420

**Eurofins Carlsbad** 

02/23/23 03:16

Lab Sample ID: 890-4131-2

**Matrix: Solid** 

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water

Job ID: 890-4131-1

SDG: Eddy

Client Sample ID: E-SW01

Date Collected: 02/17/23 08:05 Date Received: 02/17/23 10:19

Sample Depth: 0-4'

Lab Sample ID: 890-4131-2

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	83	70 - 130	02/23/23 09:25	02/24/23 05:56	1

Mothod: TAL SOP	Total RTFY - Tota	I BTEX Calculation
Method. TAL OUT	TOTAL DIEX - TOTA	I DIEA Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399	mg/Kg			02/24/23 14:46	1

Method: SW846 8015 NM - Diesel Range Organics (I	DRO) (	GCI	ı
incured. Offore out of the Picaci Range Organica (i		,	١.

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg	 	<u> </u>	02/24/23 13:21	1

Method: SW846 8015B N	MM - Diesel Range	Organics (	(DRO)	(GC)	١
Michiga. Offoro ou lob i	titi - Diesei italige	Organics i	DILO	(00)	,

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		02/23/23 09:12	02/23/23 16:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		02/23/23 09:12	02/23/23 16:28	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/23/23 09:12	02/23/23 16:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90	70 - 130	02/23/23 09:12	02/23/23 16:28	1
o-Terphenyl	102	70 - 130	02/23/23 09:12	02/23/23 16:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	87.0		5.00		mg/Kg			02/23/23 03:23	1

Client Sample ID: FS04 Lab Sample ID: 890-4131-3

Date Collected: 02/17/23 08:34 Date Received: 02/17/23 10:19

Sample Depth: 4'

ı	Method: SW846 8021B	Maladila Ossasia	O = ==== d= (OO)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/23/23 09:25	02/24/23 06:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/23/23 09:25	02/24/23 06:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/23/23 09:25	02/24/23 06:17	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/23/23 09:25	02/24/23 06:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/23/23 09:25	02/24/23 06:17	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/23/23 09:25	02/24/23 06:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130				02/23/23 09:25	02/24/23 06:17	1
1,4-Difluorobenzene (Surr)	84		70 - 130				02/23/23 09:25	02/24/23 06:17	1

Method:	ΤΔΙ	SOP	Total	RTFY	- Total	RTFY	Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00401	U	0.00401	ma/K	a	_	02/24/23 14:46	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC	Method:	: SW846 8015 N	M - Diesel R	ange Ord	ianics (	DRO)	(GC
---	---------	----------------	--------------	----------	----------	------	-----

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/24/23 13:21	1

**Eurofins Carlsbad** 

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Matrix: Solid

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobiley Water

Job ID: 890-4131-1

SDG: Eddy

**Client Sample ID: FS04** 

Date Collected: 02/17/23 08:34 Date Received: 02/17/23 10:19 Lab Sample ID: 890-4131-3

Analyzed

02/23/23 03:29

Matrix: Solid

Sample Depth: 4'

Analyte

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U *1	50.0		mg/Kg		02/23/23 09:12	02/23/23 16:50	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U *1	50.0		mg/Kg		02/23/23 09:12	02/23/23 16:50	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/23/23 09:12	02/23/23 16:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				02/23/23 09:12	02/23/23 16:50	1
o-Terphenyl	93		70 <sub>-</sub> 130				02/23/23 09:12	02/23/23 16:50	1

RL

4.95

MDL Unit

mg/Kg

D

Prepared

Result Qualifier

324

ğ

10

11

Dil Fac

12

## **Surrogate Summary**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water

Job ID: 890-4131-1

SDG: Eddy

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)	
890-4131-1	N-SW01	88	76	
890-4131-2	E-SW01	110	83	
890-4131-3	FS04	80	84	
LCS 880-47007/1-A	Lab Control Sample	122	100	
LCSD 880-47007/2-A	Lab Control Sample Dup	110	104	
MB 880-47001/5-A	Method Blank	76	87	
MB 880-47007/5-A	Method Blank	78	94	

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 Re
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4131-1	N-SW01	84	90	
890-4131-2	E-SW01	90	102	
890-4131-3	FS04	85	93	
LCS 880-47003/2-A	Lab Control Sample	107	116	
LCSD 880-47003/3-A	Lab Control Sample Dup	75	85	
MB 880-47003/1-A	Method Blank	110	131 S1+	
Surrogate Legend				

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water

Job ID: 890-4131-1

SDG: Eddy

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

Lab Sample ID: MB 880-47001/5-A

**Matrix: Solid** 

Analysis Batch: 47000

Analysis Batch: 47000

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47001

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/23/23 08:38	02/23/23 11:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/23/23 08:38	02/23/23 11:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/23/23 08:38	02/23/23 11:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/23/23 08:38	02/23/23 11:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/23/23 08:38	02/23/23 11:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/23/23 08:38	02/23/23 11:47	1

MB MB

Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 76 87 70 - 130 1,4-Difluorobenzene (Surr)

Dil Fac Prepared Analyzed 02/23/23 08:38 02/23/23 11:47 02/23/23 08:38 02/23/23 11:47

Client Sample ID: Method Blank

Lab Sample ID: MB 880-47007/5-A **Matrix: Solid** 

Prep Batch: 47007

Prep Type: Total/NA

мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/23/23 09:25	02/23/23 23:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/23/23 09:25	02/23/23 23:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/23/23 09:25	02/23/23 23:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/23/23 09:25	02/23/23 23:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/23/23 09:25	02/23/23 23:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/23/23 09:25	02/23/23 23:25	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepare	d Analyzed	l Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130	02/23/23 0	9:25 02/23/23 23	:25 1
1,4-Difluorobenzene (Surr)	94		70 - 130	02/23/23 0	9:25 02/23/23 23	:25 1

Lab Sample ID: LCS 880-47007/1-A

**Matrix: Solid** 

**Analysis Batch: 47000** 

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 47007

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09393		mg/Kg		94	70 - 130	
Toluene	0.100	0.09350		mg/Kg		93	70 - 130	
Ethylbenzene	0.100	0.1024		mg/Kg		102	70 - 130	
m-Xylene & p-Xylene	0.200	0.2149		mg/Kg		107	70 - 130	
o-Xylene	0.100	0.1176		mg/Kg		118	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	122	70 - 130
1.4-Difluorobenzene (Surr)	100	70 - 130

Lab Sample ID: LCSD 880-47007/2-A

Matrix: Solid

**Analysis Batch: 47000** 

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 47007

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08161		mg/Kg		82	70 - 130	14	35

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water

Job ID: 890-4131-1

SDG: Eddy

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

Lab Sample ID: LCSD 880-47007/2-A

**Matrix: Solid** 

Analysis Batch: 47000

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 47007

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.08564		mg/Kg		86	70 - 130	9	35
Ethylbenzene	0.100	0.09059		mg/Kg		91	70 - 130	12	35
m-Xylene & p-Xylene	0.200	0.1900		mg/Kg		95	70 - 130	12	35
o-Xylene	0.100	0.09988		mg/Kg		100	70 - 130	16	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	110	70 - 130
1,4-Difluorobenzene (Surr)	104	70 - 130

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

Lab Sample ID: MB 880-47003/1-A

**Matrix: Solid** 

Analysis Batch: 46994

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47003

Analyzed

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Analyte	Result	Qualif
Gasoline Range Organics	<50.0	U

Analyte	Result	Qualifici	IXL.	WIDE OIL		riepaieu	Allalyzeu	Diriac
Gasoline Range Organics	<50.0	U	50.0	mg/K		02/23/23 09:12	02/23/23 08:36	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/K	g	02/23/23 09:12	02/23/23 08:36	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/K	g	02/23/23 09:12	02/23/23 08:36	1
	***	***						

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	02/23/23 09:12	02/23/23 08:36	1
o-Terphenyl	131	S1+	70 - 130	02/23/23 09:12	02/23/23 08:36	1

Lab Sample ID: LCS 880-47003/2-A

**Matrix: Solid** 

Analysis Batch: 46994

Client	Sample	ID: I	Lab	Control	Sample
Onchi	Oumpic	10. 1	Lub	001111101	Campic

70 - 130

Prenared

Prep Type: Total/NA Prep Batch: 47003

Spike LCS LCS Added Result Qualifier Analyte Unit %Rec Limits Gasoline Range Organics 1000 1174 mg/Kg 117 70 - 130 (GRO)-C6-C10

1103

mg/Kg

1000

Diesel Range Organics (Over C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	116		70 - 130

Lab Sample ID: LCSD 880-47003/3-A

Matrix: Solid

C10-C28)

Analysis Batch: 46994

Client Sample	ID: Lab	Control	Sample	Dup
---------------	---------	---------	--------	-----

110

Prep Type: Total/NA

Prep Batch: 47003

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	908.0	*1	mg/Kg		91	70 - 130	26	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	806.6	*1	mg/Kg		81	70 - 130	31	20

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water

Job ID: 890-4131-1

SDG: Eddy

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

Lab Sample ID: LCSD 880-47003/3-A

**Matrix: Solid** 

Analysis Batch: 46994

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 47003

LCSD LCSD

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 75 70 - 130 o-Terphenyl 85 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-46847/1-A

**Matrix: Solid** 

**Analysis Batch: 46985** 

**Prep Type: Soluble** 

Client Sample ID: Method Blank

MB MB

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 5.00 Chloride <5.00 U 02/23/23 01:57 mg/Kg

Lab Sample ID: LCS 880-46847/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 46985

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 245.9 98 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-46847/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 46985** 

RPD Spike LCSD LCSD %Rec Analyte Added Result Qualifier %Rec Limits RPD Limit Unit Chloride 250 254.3 102 90 - 110 20 mg/Kg

## **QC Association Summary**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water

Job ID: 890-4131-1 SDG: Eddy

## **GC VOA**

#### **Analysis Batch: 47000**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4131-1	N-SW01	Total/NA	Solid	8021B	47007
890-4131-2	E-SW01	Total/NA	Solid	8021B	47007
890-4131-3	FS04	Total/NA	Solid	8021B	47007
MB 880-47001/5-A	Method Blank	Total/NA	Solid	8021B	47001
MB 880-47007/5-A	Method Blank	Total/NA	Solid	8021B	47007
LCS 880-47007/1-A	Lab Control Sample	Total/NA	Solid	8021B	47007
LCSD 880-47007/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	47007

#### Prep Batch: 47001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-47001/5-A	Method Blank	Total/NA	Solid	5035	

#### Prep Batch: 47007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4131-1	N-SW01	Total/NA	Solid	5035	
890-4131-2	E-SW01	Total/NA	Solid	5035	
890-4131-3	FS04	Total/NA	Solid	5035	
MB 880-47007/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-47007/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-47007/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

#### **Analysis Batch: 47197**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4131-1	N-SW01	Total/NA	Solid	Total BTEX	
890-4131-2	E-SW01	Total/NA	Solid	Total BTEX	
890-4131-3	FS04	Total/NA	Solid	Total BTEX	

## **GC Semi VOA**

#### Analysis Batch: 46994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4131-1	N-SW01	Total/NA	Solid	8015B NM	47003
890-4131-2	E-SW01	Total/NA	Solid	8015B NM	47003
890-4131-3	FS04	Total/NA	Solid	8015B NM	47003
MB 880-47003/1-A	Method Blank	Total/NA	Solid	8015B NM	47003
LCS 880-47003/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	47003
LCSD 880-47003/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	47003

#### Prep Batch: 47003

<b>Lab Sample ID</b> 890-4131-1	Client Sample ID N-SW01	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
890-4131-2	E-SW01	Total/NA	Solid	8015NM Prep	
890-4131-3	FS04	Total/NA	Solid	8015NM Prep	
MB 880-47003/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-47003/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-47003/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

#### Analysis Batch: 47113

Released to Imaging: 6/10/2025 2:35:50 PM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4131-1	N-SW01	Total/NA	Solid	8015 NM	
890-4131-2	E-SW01	Total/NA	Solid	8015 NM	

## **QC Association Summary**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water

Job ID: 890-4131-1

SDG: Eddy

## GC Semi VOA (Continued)

#### **Analysis Batch: 47113 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4131-3	FS04	Total/NA	Solid	8015 NM	

## **HPLC/IC**

#### Leach Batch: 46847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4131-1	N-SW01	Soluble	Solid	DI Leach	
890-4131-2	E-SW01	Soluble	Solid	DI Leach	
890-4131-3	FS04	Soluble	Solid	DI Leach	
MB 880-46847/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-46847/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-46847/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

#### Analysis Batch: 46985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4131-1	N-SW01	Soluble	Solid	300.0	46847
890-4131-2	E-SW01	Soluble	Solid	300.0	46847
890-4131-3	FS04	Soluble	Solid	300.0	46847
MB 880-46847/1-A	Method Blank	Soluble	Solid	300.0	46847
LCS 880-46847/2-A	Lab Control Sample	Soluble	Solid	300.0	46847
LCSD 880-46847/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	46847

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#### Lab Chronicle

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water

Job ID: 890-4131-1

SDG: Eddy

Client Sample ID: N-SW01

Date Collected: 02/17/23 08:00 Date Received: 02/17/23 10:19

Lab Sample ID: 890-4131-1

**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			5.03 g	5 mL	47007	02/23/23 09:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47000	02/24/23 05:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47197	02/24/23 14:46	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47113	02/23/23 16:21	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47003	02/23/23 09:12	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46994	02/23/23 15:43	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	46847	02/21/23 13:15	KS	EET MID
Soluble	Analysis	300.0		1			46985	02/23/23 03:16	CH	EET MID

Lab Sample ID: 890-4131-2

**Matrix: Solid** 

Date Collected: 02/17/23 08:05 Date Received: 02/17/23 10:19

Client Sample ID: E-SW01

Dil Initial Final Batch Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 47007 Total/NA 5.01 g 5 mL 02/23/23 09:25 MNR EET MID Total/NA 8021B 5 mL MNR **EET MID** Analysis 1 5 mL 47000 02/24/23 05:56 Total/NA Total BTEX 47197 02/24/23 14:46 Analysis 1 A.I **EET MID** Total/NA Analysis 8015 NM 47113 02/24/23 13:21 **EET MID** Total/NA 8015NM Prep 47003 Prep 10.02 g 10 mL 02/23/23 09:12 A.I EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 46994 02/23/23 16:28 AJ **EET MID** Soluble KS Leach DI Leach 5 g 50 mL 46847 02/21/23 13:15 **EET MID** Soluble Analysis 300.0 46985 02/23/23 03:23 СН **EET MID** 

**Client Sample ID: FS04** 

Date Collected: 02/17/23 08:34 Date Received: 02/17/23 10:19

Lab Sample ID: 890-4131-3

**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	47007	02/23/23 09:25	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47000	02/24/23 06:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47197	02/24/23 14:46	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47113	02/24/23 13:21	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47003	02/23/23 09:12	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46994	02/23/23 16:50	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	46847	02/21/23 13:15	KS	EET MID
Soluble	Analysis	300.0		1			46985	02/23/23 03:29	CH	EET MID

**Laboratory References:** 

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

## **Accreditation/Certification Summary**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water

Job ID: 890-4131-1

SDG: Eddy

## **Laboratory: Eurofins Midland**

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

uthority		ogram	Identification Number	Expiration Date
Texas	NI	ELAP	T104704400-22-25	06-30-23
	· · · · · ·	ut the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes fo
the agency does not of	ter certification.			
Analysis Method	fer certification. Prep Method	Matrix	Analyte	
0 ,		Matrix Solid	Analyte Total TPH	

## **Method Summary**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water

Job ID: 890-4131-1

SDG: Eddy

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

#### **Protocol References:**

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

#### Laboratory References:

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

**Eurofins Carlsbad** 

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## Sample Summary

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water

Job ID: 890-4131-1

SDG: Eddy

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	ı
890-4131-1	N-SW01	Solid	02/17/23 08:00	02/17/23 10:19	0-4
890-4131-2	E-SW01	Solid	02/17/23 08:05	02/17/23 10:19	0-4
890-4131-3	FS04	Solid	02/17/23 08:34	02/17/23 10:19	4'

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Date/Time

Received by: (Signature)

Relinquished by: (Signature)

Date/Time

Received by: (Signature)

Relinquished by: (Signature)

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of \$5 for each summinum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control

# Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

**Environment Testing** 

Xenco

Work Order No:

Company Name: Texcoccut Company Name: 4518 W Pierce St Address: City, State ZIP: Cox15lood MM 88226 Sity, State ZIP: Cox15lood MM 88226 Sity, State ZIP:				
Cox13back NW 8	Name:		Program: UST/PST ☐ PRP ☐ Br	Brownfields ☐ RRC ☐ Superfund ☐
Castsback nm 8			State of Project:	
(G76) /09, 59UA	ZIP:		Reporting: Level III   PST/UST   TRRP   Level IV	PST/UST TRRP Level IV
	Email: Jinfriend & terracon. Com	con. Com	Deliverables: EDD 🗌 AD:	ADaPT ☐ Other:
Red	utation .	ANALYSIS REOLIFST	ST	Preservative Codes
Project Number: KH227627 Theorem	Pres.			None: NO DI Water: H <sub>2</sub> O
				Cool: Cool MeOH: Me
Beekly Males	d by		-	
	T	C		H <sub>2</sub> S0 <sub>4</sub> : H <sub>2</sub> NaOH: Na
SAMPLE RECEIPT Temp Blank: Kes No Wet Ice: Yes No	No leter	(5		H₃PO 4; HP
Samples Received Intact: Nes No Thermometer ID: I NM-C	mene	7:10		NaHSO 4: NABIS
Cooler Custody Seals: Yes No/N/A Correction Factor:	20	87		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>
Sample Custody Seals: Yes No NA Temperature Reading:	7	890-4131 Chain of Custody	ustody	Zn Acetate+NaOH: Zn
Total Containers: $\mathcal{O}_{\cdot\cdot}$	08	1		NaOH+Ascorbic Acid: SAPC
Sample Identification Matrix Sampled Sampled Depth C	Grab/ # of S	11		Sample Comments
N-56.001 S 8:00 0-4	8 - 0			
4-0 50.8 8 05	2 - 0	Q		
FS04 5 8:34 41	2 -	2		
TOOL VOOL OOD A TOOL OOD TOOL	11 AI Ch Ac Ba B	ODCDA 130DM TAXASTI ALCH AS BY BY BY BY CH CY	Mp Mp Ni K Se An SiO. Na S	TI Sn 11 V Zn

brediz suc. willer @ textacon. com

Gus. Sanchez@ terracon.com

Page 20 of 22

## **Login Sample Receipt Checklist**

Client: Terracon Consulting Eng & Scientists

Job Number: 890-4131-1

SDG Number: Eddy

Login Number: 4131 List Source: Eurofins Carlsbad

List Number: 1

Creator: Stutzman, Amanda

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.	N/A	Refer to Job Narrative for details.
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	

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## **Login Sample Receipt Checklist**

Client: Terracon Consulting Eng & Scientists

Job Number: 890-4131-1

SDG Number: Eddy

**List Source: Eurofins Midland** 

List Creation: 02/21/23 08:18 AM

List Number: 2 Creator: Teel, Brianna

Login Number: 4131

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

**Environment Testing** 

# **ANALYTICAL REPORT**

## PREPARED FOR

Attn: Joseph Guesnier Terracon Consulting Eng & Scientists 5847 50th St Lubbock, Texas 79424

Generated 10/3/2023 11:53:55 AM

## **JOB DESCRIPTION**

MOBLEY WATER SDG NUMBER KH227027

## **JOB NUMBER**

890-5373-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



# **Eurofins Carlsbad**

## **Job Notes**

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

## **Authorization**

Generated 10/3/2023 11:53:55 AM

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

## **Eurofins Carlsbad**

## **Compliance Statement**

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

#### Coliform MCLs

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

#### Warranties, Terms, and Conditions

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

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

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

WG = field staff performs tests under NJ State certification # PA001, PA State certification # 48-01334. H = field staff performs tests under NJ NELAP certification # PA093, PA NELAP certification # 46-05499.

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

MAMER

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Client: Terracon Consulting Eng & Scientists

Project/Site: MOBLEY WATER

Laboratory Jol

Laboratory Job ID: 890-5373-1 SDG: KH227027

# **Table of Contents**

Cover Page	1
Table of Contents	4
Definitions/Glossary	5
Case Narrative	6
Client Sample Results	7
Surrogate Summary	13
QC Sample Results	14
QC Association Summary	18
Lab Chronicle	21
Certification Summary	24
Method Summary	25
Sample Summary	26
Chain of Custody	27
Racaint Chacklists	28

3

6

8

10

40

13

## **Definitions/Glossary**

Job ID: 890-5373-1 Client: Terracon Consulting Eng & Scientists Project/Site: MOBLEY WATER

SDG: KH227027

#### **Qualifiers**

**GC VOA** 

Qualifier **Qualifier Description** S1+ Surrogate recovery exceeds control limits, high biased.

U Indicates the analyte was analyzed for but not detected.

**GC Semi VOA** 

Qualifier **Qualifier Description** 

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

**HPLC/IC** 

Qualifier **Qualifier Description** 

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

**Glossary** 

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit **CNF** Contains No Free Liquid

DFR 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) LOQ Limit of Quantitation (DoD/DOE) EPA recommended "Maximum Contaminant Level" MCL

MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

Method Detection Limit MDL 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

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

**TNTC** Too Numerous To Count

#### Case Narrative

Client: Terracon Consulting Eng & Scientists

Job ID: 890-5373-1 Project/Site: MOBLEY WATER SDG: KH227027

Job ID: 890-5373-1

**Laboratory: Eurofins Carlsbad** 

Narrative

#### Job Narrative 890-5373-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

#### Receipt

The samples were received on 9/29/2023 9:54 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -1.2°C

#### **Receipt Exceptions**

The following samples were received and analyzed from an unpreserved bulk soil jar: N-SW-02.2 (890-5373-1), W-SW-02.1 (890-5373-2), W-SW-03.2 (890-5373-3), W-SW-04.2 (890-5373-4), W-SW-05.2 (890-5373-5), W-SW-06.2 (890-5373-6) and S-SW-01.2 (890-5373-7).

#### **GC VOA**

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-63670 and analytical batch 880-63715 was outside the upper control limits.

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

#### GC Semi VOA

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-63769 and analytical batch 880-63710 was outside the upper control limits.

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 880-63721 and analytical batch 880-63754 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.

Client: Terracon Consulting Eng & Scientists

Project/Site: MOBLEY WATER

Lab Sample ID: 890-5373-1

Date Collected: 09/28/23 16:00 Date Received: 09/29/23 09:54

Client Sample ID: N-SW-02.2

Matrix: Solid

Job ID: 890-5373-1

SDG: KH227027

Sample Depth: 0-5'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/29/23 16:40	10/02/23 12:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/29/23 16:40	10/02/23 12:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/29/23 16:40	10/02/23 12:29	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/29/23 16:40	10/02/23 12:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/29/23 16:40	10/02/23 12:29	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/29/23 16:40	10/02/23 12:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130				09/29/23 16:40	10/02/23 12:29	1
1,4-Difluorobenzene (Surr)	102		70 <sub>-</sub> 130				09/29/23 16:40	10/02/23 12:29	1
Method: TAL SOP Total BTEX		culation	70 - 700				03/23/20 10.40	10/02/20 12:20	
Method: TAL SOP Total BTEX Analyte	- Total BTEX Cald	Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Calc Result <0.00399	<b>Qualifier</b> U	RL 0.00399	MDL	Unit mg/Kg	<u>D</u>			
Method: TAL SOP Total BTEX Analyte	- Total BTEX Cald Result <0.00399 seel Range Organ	<b>Qualifier</b> U	RL 0.00399	MDL	mg/Kg	<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die	- Total BTEX Cald Result <0.00399 seel Range Organ	Qualifier U ics (DRO) ( Qualifier	RL 0.00399		mg/Kg	_ =	Prepared	Analyzed 10/02/23 12:29	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <0.00399 seel Range Organ Result <50.4	Qualifier U ics (DRO) ( Qualifier U	RL 0.00399 GC) RL 50.4		mg/Kg	_ =	Prepared	Analyzed 10/02/23 12:29 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Calc Result <0.00399 seel Range Organ Result <50.4 iesel Range Orga	Qualifier U ics (DRO) ( Qualifier U	RL 0.00399 GC) RL 50.4		mg/Kg  Unit mg/Kg	_ =	Prepared	Analyzed 10/02/23 12:29 Analyzed	Dil Fac  Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH  Method: SW846 8015B NM - D	- Total BTEX Calc Result <0.00399 seel Range Organ Result <50.4 iesel Range Orga	Qualifier U ics (DRO) ( Qualifier U nics (DRO) Qualifier	RL 0.00399  GC)  RL 50.4	MDL	mg/Kg  Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 10/02/23 12:29  Analyzed 10/02/23 21:01	Dil Fac  Dil Fac  1
Method: TAL SOP Total BTEX Analyte Total BTEX  Method: SW846 8015 NM - Die Analyte Total TPH  Method: SW846 8015B NM - D Analyte Gasoline Range Organics	- Total BTEX Calc Result <0.00399 seel Range Organ Result <50.4 iesel Range Orga Result	Qualifier U  ics (DRO) ( Qualifier U  nics (DRO) Qualifier U	RL 0.00399  GC)  RL 50.4  (GC)  RL	MDL	mg/Kg  Unit mg/Kg  Unit	<u>D</u>	Prepared Prepared	Analyzed 10/02/23 12:29  Analyzed 10/02/23 21:01  Analyzed	Dil Fac  Dil Fac

	Oll Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg	10/02/23 15:31	10/02/23 21:01	1
	Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
	1-Chlorooctane	113		70 - 130		10/02/23 15:31	10/02/23 21:01	1
l	o-Terphenyl	97		70 - 130		10/02/23 15:31	10/02/23 21:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 4.96 10/02/23 13:24 Chloride 199 F1 mg/Kg

Client Sample ID: W-SW-02.1 Date Collected: 09/28/23 16:38

Lab Sample ID: 890-5373-2 **Matrix: Solid** 

Date Received: 09/29/23 09:54

Sample Depth: 0-5'

C10-C28)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/29/23 16:40	10/02/23 12:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/29/23 16:40	10/02/23 12:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/29/23 16:40	10/02/23 12:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/29/23 16:40	10/02/23 12:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/29/23 16:40	10/02/23 12:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/29/23 16:40	10/02/23 12:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				09/29/23 16:40	10/02/23 12:49	

Client: Terracon Consulting Eng & Scientists

Project/Site: MOBLEY WATER

Job ID: 890-5373-1

SDG: KH227027

Client Sample ID: W-SW-02.1

Date Collected: 09/28/23 16:38

Date Received: 09/29/23 09:54

Sample Depth: 0-5'

Lab Sample ID: 890-5373-2

Lab Sample ID: 890-5373-3

**Matrix: Solid** 

**Matrix: Solid** 

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

%Recovery Qualifier Limits Prepared Surrogate Analyzed Dil Fac 70 - 130 09/29/23 16:40 1,4-Difluorobenzene (Surr) 102 10/02/23 12:49

**Method: TAL SOP Total BTEX - Total BTEX Calculation** 

Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared Total BTEX <0.00398 0.00398 10/02/23 12:49 mg/Kg

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Total TPH <50.3 50.3 10/02/23 22:07 mg/Kg

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

**MDL** Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac <50.3 U 50.3 mg/Kg Gasoline Range Organics 10/02/23 15:31 10/02/23 22:07 (GRO)-C6-C10 <50.3 U 50.3 10/02/23 15:31 10/02/23 22:07 Diesel Range Organics (Over mg/Kg C10-C28) OII Range Organics (Over C28-C36) <50.3 U 50.3 mg/Kg 10/02/23 15:31 10/02/23 22:07

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 118 70 - 130 10/02/23 15:31 10/02/23 22:07 10/02/23 22:07 101 70 - 130 10/02/23 15:31 o-Terphenyl

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 4.99 10/02/23 13:44 Chloride 107 mg/Kg

Client Sample ID: W-SW-03.2

Date Collected: 09/28/23 16:50

Date Received: 09/29/23 09:54

Sample Depth: 0-5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Benzene <0.00198 U 0.00198 mg/Kg 09/29/23 16:40 10/02/23 13:10 Toluene <0.00198 U 0.00198 09/29/23 16:40 10/02/23 13:10 mg/Kg Ethylbenzene <0.00198 U 0.00198 09/29/23 16:40 10/02/23 13:10 mg/Kg 10/02/23 13:10 m-Xylene & p-Xylene < 0.00396 U 0.00396 09/29/23 16:40 mg/Kg o-Xylene <0.00198 U 0.00198 mg/Kg 09/29/23 16:40 10/02/23 13:10 Xylenes, Total <0.00396 U 0.00396 mg/Kg 09/29/23 16:40 10/02/23 13:10

%Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed 70 - 130 4-Bromofluorobenzene (Surr) 105 09/29/23 16:40 10/02/23 13:10 1,4-Difluorobenzene (Surr) 102 70 - 130 09/29/23 16:40 10/02/23 13:10

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte Result Qualifier MDL D RL Unit Prepared Analyzed Dil Fac Total BTEX <0.00396 0.00396 10/02/23 13:10 mg/Kg

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac <50.5 U Total TPH 50.5 10/02/23 22:29 mg/Kg

Client: Terracon Consulting Eng & Scientists

Project/Site: MOBLEY WATER

SDG: KH227027

Client Sample ID: W-SW-03.2

Lab Sample ID: 890-5373-3

Date Collected: 09/28/23 16:50 Date Received: 09/29/23 09:54 Matrix: Solid

Job ID: 890-5373-1

Sample Depth: 0-5'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		10/02/23 15:31	10/02/23 22:29	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		10/02/23 15:31	10/02/23 22:29	1
Oll Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		10/02/23 15:31	10/02/23 22:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130				10/02/23 15:31	10/02/23 22:29	1
o-Terphenyl	103		70 - 130				10/02/23 15:31	10/02/23 22:29	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: W-SW-04.2 Lab Sample ID: 890-5373-4

4.98

mg/Kg

424

10/02/23 13:50

Date Collected: 09/28/23 17:00 Date Received: 09/29/23 09:54

Matrix: Solid

Sample Depth: 0-5'

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/29/23 16:40	10/02/23 13:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/29/23 16:40	10/02/23 13:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/29/23 16:40	10/02/23 13:30	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/29/23 16:40	10/02/23 13:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/29/23 16:40	10/02/23 13:30	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/29/23 16:40	10/02/23 13:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130				09/29/23 16:40	10/02/23 13:30	1
1,4-Difluorobenzene (Surr)	107		70 - 130				09/29/23 16:40	10/02/23 13:30	1
Method: TAL SOP Total BTEX - 1	otal BTEX Cal	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			10/02/23 13:30	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (	GC)						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			10/02/23 22:50	1
- Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte			• •		Unit	D	Prepared	Analyzed	B.: E
Analyte	Result	Qualifier	RL	MDL	•			Allalyzeu	Dil Fac
Gasoline Range Organics	<49.9		49.9	MDL	mg/Kg		10/02/23 15:31	10/02/23 22:50	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over		U		MDL					
Gasoline Range Organics	<49.9	U	49.9	MDL	mg/Kg		10/02/23 15:31	10/02/23 22:50	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.9 <49.9	U U	49.9	MDL	mg/Kg	=	10/02/23 15:31 10/02/23 15:31	10/02/23 22:50	1 1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.9 <49.9 <49.9	U U	49.9 49.9 49.9	MDL	mg/Kg	=	10/02/23 15:31 10/02/23 15:31 10/02/23 15:31	10/02/23 22:50 10/02/23 22:50 10/02/23 22:50	1

Client: Terracon Consulting Eng & Scientists

SDG: KH227027

Project/Site: MOBLEY WATER

Lab Sample ID: 890-5373-4

Date Collected: 09/28/23 17:00 Date Received: 09/29/23 09:54

Client Sample ID: W-SW-04.2

Matrix: Solid

Job ID: 890-5373-1

Sample Depth: 0-5'

Method: EPA 300.0 - Anions, Ion Ch	romatography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	146	5.02	mg/Kg			10/02/23 13:57	1

Client Sample ID: W-SW-05.2 Lab Sample ID: 890-5373-5

Date Collected: 09/28/23 17:15 Matrix: Solid Date Received: 09/29/23 09:54

Sample Depth: 0-5'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199		mg/Kg		09/29/23 16:40	10/02/23 13:51	
Toluene	<0.00199	U	0.00199		mg/Kg		09/29/23 16:40	10/02/23 13:51	
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		09/29/23 16:40	10/02/23 13:51	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/29/23 16:40	10/02/23 13:51	
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/29/23 16:40	10/02/23 13:51	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/29/23 16:40	10/02/23 13:51	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	95		70 - 130				09/29/23 16:40	10/02/23 13:51	
1,4-Difluorobenzene (Surr)	102		70 - 130				09/29/23 16:40	10/02/23 13:51	
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Method: SW846 8015 NM - Diese	•	ics (DRO) (	GC)						
Anaivie	Result	Qualifier	RI	MDI	Unit	ח	Prepared	Analyzed	Dil Fa
Analyte Total TPH	Result < 50.3	Qualifier U		MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 10/02/23 23:12	Dil Fa
Total TPH	<50.3	U	50.3	MDL		<u>D</u>	Prepared		
	<50.3	U	50.3	MDL	mg/Kg	<u>D</u> 	Prepared Prepared		
Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	<50.3	nics (DRO) Qualifier	50.3 (GC)		mg/Kg			10/02/23 23:12	Dil Fa
Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<50.3 sel Range Orga Result	nics (DRO) Qualifier	50.3 (GC)		mg/Kg		Prepared	10/02/23 23:12  Analyzed	Dil Fa
Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.3 sel Range Orga Result <50.3	nics (DRO) Qualifier U	50.3 (GC) RL 50.3		mg/Kg  Unit mg/Kg		Prepared 10/02/23 15:31	10/02/23 23:12  Analyzed  10/02/23 23:12	Dil Fa
Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.3 sel Range Orga Result <50.3 <50.3	nics (DRO) Qualifier U	50.3 (GC) RL 50.3 50.3		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 10/02/23 15:31 10/02/23 15:31	10/02/23 23:12  Analyzed  10/02/23 23:12  10/02/23 23:12	Dil Fa
Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.3 sel Range Orga Result <50.3 <50.3	nics (DRO) Qualifier U	50.3 (GC) RL 50.3 50.3 50.3		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 10/02/23 15:31 10/02/23 15:31 10/02/23 15:31	Analyzed 10/02/23 23:12 10/02/23 23:12 10/02/23 23:12 10/02/23 23:12	Dil Fa
Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate	<50.3 sel Range Orga Result <50.3 <50.3 <50.3 %Recovery	nics (DRO) Qualifier U	50.3  (GC)  RL  50.3  50.3  50.3 <i>Limits</i>		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 10/02/23 15:31 10/02/23 15:31 10/02/23 15:31 Prepared	Analyzed 10/02/23 23:12  Analyzed 10/02/23 23:12 10/02/23 23:12 10/02/23 23:12  Analyzed	Dil Fa
Total TPH  Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	<50.3 sel Range Orga Result <50.3 <50.3 <50.3 %Recovery 127 109	Oualifier U  Qualifier U  Qualifier	50.3  (GC)  RL  50.3  50.3  50.3  Limits  70 - 130  70 - 130		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 10/02/23 15:31 10/02/23 15:31 10/02/23 15:31  Prepared 10/02/23 15:31	Analyzed 10/02/23 23:12  Analyzed 10/02/23 23:12  10/02/23 23:12  Analyzed 10/02/23 23:12	
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	<50.3 sel Range Orga Result <50.3 <50.3 <50.3 %Recovery 127 109 Chromatograp	Oualifier U  Qualifier U  Qualifier	50.3  (GC)  RL  50.3  50.3  50.3  Limits  70 - 130  70 - 130		mg/Kg  Unit mg/Kg  mg/Kg  mg/Kg		Prepared 10/02/23 15:31 10/02/23 15:31 10/02/23 15:31  Prepared 10/02/23 15:31	Analyzed 10/02/23 23:12  Analyzed 10/02/23 23:12  10/02/23 23:12  Analyzed 10/02/23 23:12	Dil Fa

Client: Terracon Consulting Eng & Scientists

Project/Site: MOBLEY WATER

SDG: KH227027

Job ID: 890-5373-1

Client Sample ID: W-SW-06.2 Date Collected: 09/28/23 17:30

Date Received: 09/29/23 09:54

Lab Sample ID: 890-5373-6 Matrix: Solid

Sample Depth: 0-5'

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/29/23 16:40	10/02/23 14:11	1
Toluene	< 0.00199	U	0.00199		mg/Kg		09/29/23 16:40	10/02/23 14:11	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		09/29/23 16:40	10/02/23 14:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/29/23 16:40	10/02/23 14:11	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		09/29/23 16:40	10/02/23 14:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/29/23 16:40	10/02/23 14:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				09/29/23 16:40	10/02/23 14:11	1
1,4-Difluorobenzene (Surr)	107		70 - 130				09/29/23 16:40	10/02/23 14:11	1
Method: TAL SOP Total BTEX - 1 Analyte Total BTEX		Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 10/02/23 14:11	Dil Fac
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			10/02/23 23:34	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		10/02/23 15:31	10/02/23 23:34	1
Diesel Range Organics (Over	<49.7	U	49.7		mg/Kg		10/02/23 15:31	10/02/23 23:34	1
C10-C28)									
C10-C28) OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		10/02/23 15:31	10/02/23 23:34	1
,	<49.7 <b>%Recovery</b>		49.7 <i>Limits</i>		mg/Kg		10/02/23 15:31  Prepared	10/02/23 23:34  Analyzed	1 Dil Fac

70 - 130

RL

5.00

MDL Unit

mg/Kg

106

172

Result Qualifier

Client Sample ID: S-SW-01.2

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Date Collected: 09/28/23 17:46

Date Received: 09/29/23 09:54

Sample Depth: 0-5'

o-Terphenyl

Analyte

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/29/23 16:40	10/02/23 14:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/29/23 16:40	10/02/23 14:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/29/23 16:40	10/02/23 14:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/29/23 16:40	10/02/23 14:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/29/23 16:40	10/02/23 14:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/29/23 16:40	10/02/23 14:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				09/29/23 16:40	10/02/23 14:31	1

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10/02/23 15:31

Prepared

D

10/02/23 23:34

Analyzed

10/02/23 14:24

Lab Sample ID: 890-5373-7

Dil Fac

**Matrix: Solid** 

Client: Terracon Consulting Eng & Scientists

Job ID: 890-5373-1 SDG: KH227027

Project/Site: MOBLEY WATER

Lab Sample ID: 890-5373-7

Client Sample ID: S-SW-01.2 Date Collected: 09/28/23 17:46

Date Received: 09/29/23 09:54

Matrix: Solid

Analyte

Chloride

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	109		70 - 130				09/29/23 16:40	10/02/23 14:31	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			10/02/23 14:31	1
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
								-	
Total TPH	<50.1	U	50.1		mg/Kg			10/02/23 23:55	•
Method: SW846 8015B NM - Dies	sel Range Orga			MDL		D	Prepared	10/02/23 23:55  Analyzed	Dil Fa
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	sel Range Orga	nics (DRO)	(GC)	MDL		<u>D</u>	Prepared 10/02/23 15:31		Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	sel Range Orga Result	nics (DRO) Qualifier	(GC)	MDL	Unit	<u>D</u>		Analyzed	Dil Fa
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result <50.1	nics (DRO) Qualifier U	(GC)  RL  50.1	MDL	Unit mg/Kg	<u>D</u>	10/02/23 15:31	<b>Analyzed</b> 10/02/23 23:55	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	sel Range Orga Result <50.1	nics (DRO) Qualifier U	(GC) RL 50.1	MDL	Unit mg/Kg mg/Kg	<u> </u>	10/02/23 15:31 10/02/23 15:31	Analyzed 10/02/23 23:55 10/02/23 23:55	Dil Fac
Total TPH  Method: SW846 8015B NM - Dies  Analyte  Gasoline Range Organics (GRO)-C6-C10  Diesel Range Organics (Over C10-C28)  Oll Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	Result   <50.1   <50.1	nics (DRO) Qualifier U	(GC) RL 50.1 50.1	MDL	Unit mg/Kg mg/Kg	<u>D</u>	10/02/23 15:31 10/02/23 15:31 10/02/23 15:31	Analyzed 10/02/23 23:55 10/02/23 23:55 10/02/23 23:55	

5.04

Result Qualifier

181

MDL Unit

mg/Kg

Prepared

Analyzed

10/02/23 14:30

Dil Fac

## **Surrogate Summary**

Client: Terracon Consulting Eng & Scientists

Project/Site: MOBLEY WATER

Job ID: 890-5373-1 SDG: KH227027

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)	
890-5373-1	N-SW-02.2	85	102	
890-5373-1 MS	N-SW-02.2	107	108	
890-5373-1 MSD	N-SW-02.2	105	102	
890-5373-2	W-SW-02.1	98	102	
890-5373-3	W-SW-03.2	105	102	
890-5373-4	W-SW-04.2	97	107	
890-5373-5	W-SW-05.2	95	102	
890-5373-6	W-SW-06.2	98	107	
890-5373-7	S-SW-01.2	99	109	
LCS 880-63670/1-A	Lab Control Sample	98	100	
LCSD 880-63670/2-A	Lab Control Sample Dup	95	101	
MB 880-63670/5-A	Method Blank	116	141 S1+	
Surrogate Legend				

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	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
0-5373-1	N-SW-02.2	113	97	
0-5373-1 MS	N-SW-02.2	113	87	
0-5373-1 MSD	N-SW-02.2	115	89	
)-5373-2	W-SW-02.1	118	101	
)-5373-3	W-SW-03.2	122	103	
0-5373-4	W-SW-04.2	121	105	
-5373-5	W-SW-05.2	127	109	
-5373-6	W-SW-06.2	123	106	
-5373-7	S-SW-01.2	110	100	
S 880-63769/2-A	Lab Control Sample	108	114	
SD 880-63769/3-A	Lab Control Sample Dup	110	110	
3 880-63769/1-A	Method Blank	165 S1+	150 S1+	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Terracon Consulting Eng & Scientists

Job ID: 890-5373-1 Project/Site: MOBLEY WATER SDG: KH227027

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-63670/5-A

**Matrix: Solid** Analysis Batch: 63715 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 63670

1

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/29/23 16:40	10/02/23 12:00	
Toluene	<0.00200	U	0.00200		mg/Kg		09/29/23 16:40	10/02/23 12:00	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/29/23 16:40	10/02/23 12:00	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/29/23 16:40	10/02/23 12:00	
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/29/23 16:40	10/02/23 12:00	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/29/23 16:40	10/02/23 12:00	

мв мв

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	09/29/23 16:40	10/02/23 12:00	1
1.4-Difluorobenzene (Surr)	141	S1+	70 - 130	09/29/23 16:40	10/02/23 12:00	1

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 880-63670/1-A

Matrix: Solid

Analysis Batch: 63715

Prep Type: Total/NA

Prep Batch: 63670

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1067		mg/Kg		107	70 - 130	
Toluene	0.100	0.1006		mg/Kg		101	70 - 130	
Ethylbenzene	0.100	0.1003		mg/Kg		100	70 - 130	
m-Xylene & p-Xylene	0.200	0.2199		mg/Kg		110	70 - 130	
o-Xylene	0.100	0.1011		mg/Kg		101	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	98	70 - 130
1,4-Difluorobenzene (Surr)	100	70 - 130

Lab Sample ID: LCSD 880-63670/2-A

Matrix: Solid

Analysis Batch: 63715

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

Prep Batch: 63670

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1116		mg/Kg		112	70 - 130	5	35	
Toluene	0.100	0.1030		mg/Kg		103	70 - 130	2	35	
Ethylbenzene	0.100	0.09783		mg/Kg		98	70 - 130	3	35	
m-Xylene & p-Xylene	0.200	0.2063		mg/Kg		103	70 - 130	6	35	
o-Xylene	0.100	0.09615		mg/Kg		96	70 - 130	5	35	

LCSD LCSD

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

Lab Sample ID: 890-5373-1 MS

Matrix: Solid

Analysis Batch: 63715

Client Sample ID: N-SW-02.2 Prep Type: Total/NA

Prep Batch: 63670

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0990	0.1060		mg/Kg		107	70 - 130	
Toluene	<0.00200	U	0.0990	0.09041		mg/Kg		91	70 - 130	

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Page 14 of 29

Client: Terracon Consulting Eng & Scientists

Project/Site: MOBLEY WATER

Job ID: 890-5373-1

SDG: KH227027

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

Lab Sample ID: 890-5373-1 MS

Lab Sample ID: 890-5373-1 MSD

**Matrix: Solid** 

**Matrix: Solid** 

o-Xylene

Analysis Batch: 63715

Client Sample ID: N-SW-02.2 Prep Type: Total/NA

Prep Batch: 63670

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00200	U	0.0990	0.08474		mg/Kg		86	70 - 130	 
m-Xylene & p-Xylene	<0.00399	U	0.198	0.1831		mg/Kg		92	70 - 130	
o-Xylene	<0.00200	U	0.0990	0.09980		mg/Kg		100	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	107	70 - 130
1,4-Difluorobenzene (Surr)	108	70 - 130

Client Sample ID: N-SW-02.2

Prep Type: Total/NA

Prep Batch: 63670

**Analysis Batch: 63715** Sample Sample Spike MSD MSD RPD Result Qualifier Added RPD Limit Analyte Result Qualifier %Rec Limits Unit Benzene <0.00200 U 0.0990 0.09539 mg/Kg 96 70 - 130 11 35 Toluene <0.00200 U 0.0990 0.08679 mg/Kg 88 70 - 130 4 35 Ethylbenzene <0.00200 U 0.0990 0.08686 88 70 - 130 2 35 mg/Kg 0.198 35 m-Xylene & p-Xylene <0.00399 U 0.1965 mg/Kg 99 70 - 130

0.09409

0.0990

MSD MSD

<0.00200 U

	mos mos	
Surrogate	%Recovery Qualifi	er Limits
4-Bromofluorobenzene (Surr)	105	70 - 130
1,4-Difluorobenzene (Surr)	102	70 - 130

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

Lab Sample ID: MB 880-63769/1-A

**Matrix: Solid** 

Analysis Batch: 63710

Client Sample ID: Method Blank

95

mg/Kg

70 - 130

Prep Type: Total/NA

6

Prep Batch: 63769

MB MB Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Analyte 50.0 10/02/23 15:31 10/02/23 19:53 <50.0 U Gasoline Range Organics mg/Kg (GRO)-C6-C10 10/02/23 15:31 10/02/23 19:53 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 10/02/23 15:31 10/02/23 19:53 mg/Kg

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	165	S1+	70 - 130	10/02/23 15:31	10/02/23 19:53	1
o-Terphenyl	150	S1+	70 - 130	10/02/23 15:31	10/02/23 19:53	1

Lab Sample ID: LCS 880-63769/2-A

**Matrix: Solid** 

Analysis Batch: 63710

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA Prep Batch: 63769

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	994.5		mg/Kg		99	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	962.2		mg/Kg		96	70 - 130	
C10-C28)								

Client: Terracon Consulting Eng & Scientists

Project/Site: MOBLEY WATER

Job ID: 890-5373-1 SDG: KH227027

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

Lab Sample ID: LCS 880-63769/2-A

**Matrix: Solid** 

Analysis Batch: 63710

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 63769

LCS LCS

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 108 70 - 130 o-Terphenyl 114 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Batch: 63769

Lab Sample ID: LCSD 880-63769/3-A **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 63710

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 987.9 99 70 - 13020 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 949.4 95 mg/Kg 70 - 13020 C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	110		70 - 130
o-Terphenyl	110		70 - 130

Lab Sample ID: 890-5373-1 MS Client Sample ID: N-SW-02.2

**Matrix: Solid** 

**Analysis Batch: 63710** 

Prep Type: Total/NA Prep Batch: 63769

Sample Sample MS MS Spike Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <50.4 U 994 845.6 mg/Kg 81 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <50.4 U 994 1090 mg/Kg 108 70 - 130

C10-C28)

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 113 70 - 130 o-Terphenyl 87

Lab Sample ID: 890-5373-1 MSD Client Sample ID: N-SW-02.2

**Matrix: Solid** 

Analysis Batch: 63710

Prep Type: Total/NA

Prep Batch: 63769

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<50.4	U	994	871.5		mg/Kg		84	70 - 130	3	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<50.4	U	994	1119		mg/Kg		111	70 - 130	3	20
C10-C28)											

MSD MSD Qualifier %Recovery Surrogate Limits 1-Chlorooctane 115 70 - 130 89 70 - 130 o-Terphenyl

### QC Sample Results

Client: Terracon Consulting Eng & Scientists

Project/Site: MOBLEY WATER

Job ID: 890-5373-1

SDG: KH227027

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-63721/1-A

Lab Sample ID: LCS 880-63721/2-A

Client Sample ID: Method Blank

**Prep Type: Soluble** 

Analysis Batch: 63754

**Matrix: Solid** 

мв мв

Dil Fac MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 10/02/23 13:04

Client Sample ID: Lab Control Sample

%Rec

**Prep Type: Soluble** 

**Matrix: Solid** Analysis Batch: 63754

Spike LCS LCS

Added %Rec Analyte Result Qualifier Unit D Limits Chloride 250 246.7 mg/Kg 99 90 - 110

Lab Sample ID: LCSD 880-63721/3-A Client Sample ID: Lab Control Sample Dup

**Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 63754

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 247.0 mg/Kg 90 - 110

Lab Sample ID: 890-5373-1 MS Client Sample ID: N-SW-02.2 **Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 63754

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 199 F1 248 393.9 F1 78 90 - 110 mg/Kg

Lab Sample ID: 890-5373-1 MSD Client Sample ID: N-SW-02.2 **Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 63754

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 199 F1 248 394.2 F1 mg/Kg 79 90 - 110 0 20

## **QC Association Summary**

Client: Terracon Consulting Eng & Scientists Project/Site: MOBLEY WATER

Job ID: 890-5373-1 SDG: KH227027

**GC VOA** 

Prep Batch: 63670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5373-1	N-SW-02.2	Total/NA	Solid	5035	_
890-5373-2	W-SW-02.1	Total/NA	Solid	5035	
890-5373-3	W-SW-03.2	Total/NA	Solid	5035	
890-5373-4	W-SW-04.2	Total/NA	Solid	5035	
890-5373-5	W-SW-05.2	Total/NA	Solid	5035	
890-5373-6	W-SW-06.2	Total/NA	Solid	5035	
890-5373-7	S-SW-01.2	Total/NA	Solid	5035	
MB 880-63670/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-63670/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-63670/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5373-1 MS	N-SW-02.2	Total/NA	Solid	5035	
890-5373-1 MSD	N-SW-02.2	Total/NA	Solid	5035	

Analysis Batch: 63715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5373-1	N-SW-02.2	Total/NA	Solid	8021B	63670
890-5373-2	W-SW-02.1	Total/NA	Solid	8021B	63670
890-5373-3	W-SW-03.2	Total/NA	Solid	8021B	63670
890-5373-4	W-SW-04.2	Total/NA	Solid	8021B	63670
890-5373-5	W-SW-05.2	Total/NA	Solid	8021B	63670
890-5373-6	W-SW-06.2	Total/NA	Solid	8021B	63670
890-5373-7	S-SW-01.2	Total/NA	Solid	8021B	63670
MB 880-63670/5-A	Method Blank	Total/NA	Solid	8021B	63670
LCS 880-63670/1-A	Lab Control Sample	Total/NA	Solid	8021B	63670
LCSD 880-63670/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	63670
890-5373-1 MS	N-SW-02.2	Total/NA	Solid	8021B	63670
890-5373-1 MSD	N-SW-02.2	Total/NA	Solid	8021B	63670

Analysis Batch: 63820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5373-1	N-SW-02.2	Total/NA	Solid	Total BTEX	
890-5373-2	W-SW-02.1	Total/NA	Solid	Total BTEX	
890-5373-3	W-SW-03.2	Total/NA	Solid	Total BTEX	
890-5373-4	W-SW-04.2	Total/NA	Solid	Total BTEX	
890-5373-5	W-SW-05.2	Total/NA	Solid	Total BTEX	
890-5373-6	W-SW-06.2	Total/NA	Solid	Total BTEX	
890-5373-7	S-SW-01.2	Total/NA	Solid	Total BTEX	

**GC Semi VOA** 

Analysis Batch: 63710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5373-1	N-SW-02.2	Total/NA	Solid	8015B NM	63769
890-5373-2	W-SW-02.1	Total/NA	Solid	8015B NM	63769
890-5373-3	W-SW-03.2	Total/NA	Solid	8015B NM	63769
890-5373-4	W-SW-04.2	Total/NA	Solid	8015B NM	63769
890-5373-5	W-SW-05.2	Total/NA	Solid	8015B NM	63769
890-5373-6	W-SW-06.2	Total/NA	Solid	8015B NM	63769
890-5373-7	S-SW-01.2	Total/NA	Solid	8015B NM	63769
MB 880-63769/1-A	Method Blank	Total/NA	Solid	8015B NM	63769
LCS 880-63769/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	63769

### **QC Association Summary**

Client: Terracon Consulting Eng & Scientists

Project/Site: MOBLEY WATER

Job ID: 890-5373-1 SDG: KH227027

## GC Semi VOA (Continued)

### **Analysis Batch: 63710 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-63769/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	63769
890-5373-1 MS	N-SW-02.2	Total/NA	Solid	8015B NM	63769
890-5373-1 MSD	N-SW-02.2	Total/NA	Solid	8015B NM	63769

### Prep Batch: 63769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5373-1	N-SW-02.2	Total/NA	Solid	8015NM Prep	
890-5373-2	W-SW-02.1	Total/NA	Solid	8015NM Prep	
890-5373-3	W-SW-03.2	Total/NA	Solid	8015NM Prep	
890-5373-4	W-SW-04.2	Total/NA	Solid	8015NM Prep	
890-5373-5	W-SW-05.2	Total/NA	Solid	8015NM Prep	
890-5373-6	W-SW-06.2	Total/NA	Solid	8015NM Prep	
890-5373-7	S-SW-01.2	Total/NA	Solid	8015NM Prep	
MB 880-63769/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-63769/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-63769/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5373-1 MS	N-SW-02.2	Total/NA	Solid	8015NM Prep	
890-5373-1 MSD	N-SW-02.2	Total/NA	Solid	8015NM Prep	

### Analysis Batch: 63863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5373-1	N-SW-02.2	Total/NA	Solid	8015 NM	
890-5373-2	W-SW-02.1	Total/NA	Solid	8015 NM	
890-5373-3	W-SW-03.2	Total/NA	Solid	8015 NM	
890-5373-4	W-SW-04.2	Total/NA	Solid	8015 NM	
890-5373-5	W-SW-05.2	Total/NA	Solid	8015 NM	
890-5373-6	W-SW-06.2	Total/NA	Solid	8015 NM	
890-5373-7	S-SW-01.2	Total/NA	Solid	8015 NM	

### HPLC/IC

### Leach Batch: 63721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5373-1	N-SW-02.2	Soluble	Solid	DI Leach	
890-5373-2	W-SW-02.1	Soluble	Solid	DI Leach	
890-5373-3	W-SW-03.2	Soluble	Solid	DI Leach	
890-5373-4	W-SW-04.2	Soluble	Solid	DI Leach	
890-5373-5	W-SW-05.2	Soluble	Solid	DI Leach	
890-5373-6	W-SW-06.2	Soluble	Solid	DI Leach	
890-5373-7	S-SW-01.2	Soluble	Solid	DI Leach	
MB 880-63721/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-63721/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-63721/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5373-1 MS	N-SW-02.2	Soluble	Solid	DI Leach	
890-5373-1 MSD	N-SW-02.2	Soluble	Solid	DI Leach	

### Analysis Batch: 63754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5373-1	N-SW-02.2	Soluble	Solid	300.0	63721
890-5373-2	W-SW-02.1	Soluble	Solid	300.0	63721
890-5373-3	W-SW-03.2	Soluble	Solid	300.0	63721

### **QC Association Summary**

Client: Terracon Consulting Eng & Scientists

Job ID: 890-5373-1

Project/Site: MOBLEY WATER

SDG: KH227027

### **HPLC/IC** (Continued)

### Analysis Batch: 63754 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5373-4	W-SW-04.2	Soluble	Solid	300.0	63721
890-5373-5	W-SW-05.2	Soluble	Solid	300.0	63721
890-5373-6	W-SW-06.2	Soluble	Solid	300.0	63721
890-5373-7	S-SW-01.2	Soluble	Solid	300.0	63721
MB 880-63721/1-A	Method Blank	Soluble	Solid	300.0	63721
LCS 880-63721/2-A	Lab Control Sample	Soluble	Solid	300.0	63721
LCSD 880-63721/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	63721
890-5373-1 MS	N-SW-02.2	Soluble	Solid	300.0	63721
890-5373-1 MSD	N-SW-02.2	Soluble	Solid	300.0	63721

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Client: Terracon Consulting Eng & Scientists

Project/Site: MOBLEY WATER

SDG: KH227027

Client Sample ID: N-SW-02.2

Date Received: 09/29/23 09:54

Date Collected: 09/28/23 16:00

Lab Sample ID: 890-5373-1

**Matrix: Solid** 

Job ID: 890-5373-1

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 63670 Total/NA Prep 5.01 g 5 mL 09/29/23 16:40 MNR **EET MID** 8021B Total/NA Analysis 1 5 mL 5 mL 63715 10/02/23 12:29 MNR **EET MID** Total/NA Analysis Total BTEX 63820 10/02/23 12:29 SM EET MID Total/NA 8015 NM 63863 Analysis 1 10/02/23 21:01 SM **EET MID** Total/NA 8015NM Prep 63769 10/02/23 15:31 TKC EET MID Prep 9.92 g 10 mL Total/NA Analysis 8015B NM 1 uL 1 uL 63710 10/02/23 21:01 SM **EET MID** Soluble DI Leach 5.04 g 50 mL 63721 10/02/23 11:03 SMC Leach **EET MID** Soluble Analysis 300.0 50 mL 50 mL 63754 10/02/23 13:24 СН **EET MID** 

Client Sample ID: W-SW-02.1

Date Collected: 09/28/23 16:38

Lab Sample ID: 890-5373-2

**Matrix: Solid** 

Date Received: 09/29/23 09:54

	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 mL	63670	09/29/23 16:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63715	10/02/23 12:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			63820	10/02/23 12:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			63863	10/02/23 22:07	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	63769	10/02/23 15:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63710	10/02/23 22:07	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	63721	10/02/23 11:03	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63754	10/02/23 13:44	CH	EET MID

Client Sample ID: W-SW-03.2

Date Collected: 09/28/23 16:50

Date Received: 09/29/23 09:54

Lab Sample ID: 890-5373-3

**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			5.05 g	5 mL	63670	09/29/23 16:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63715	10/02/23 13:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			63820	10/02/23 13:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			63863	10/02/23 22:29	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	63769	10/02/23 15:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63710	10/02/23 22:29	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	63721	10/02/23 11:03	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63754	10/02/23 13:50	CH	EET MID

Client Sample ID: W-SW-04.2

Date Collected: 09/28/23 17:00

Date Received: 09/29/23 09:54

10/02/23 13:50	СН	EET MID
Lab Sam	ple ID	0: 890-5373-4 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	63670	09/29/23 16:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63715	10/02/23 13:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			63820	10/02/23 13:30	SM	EET MID

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Page 21 of 29

Client Sample ID: W-SW-04.2

Date Collected: 09/28/23 17:00 Date Received: 09/29/23 09:54 Lab Sample ID: 890-5373-4

Matrix: Solid

**Matrix: Solid** 

	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			63863	10/02/23 22:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	63769	10/02/23 15:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63710	10/02/23 22:50	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	63721	10/02/23 11:03	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63754	10/02/23 13:57	CH	EET MID

Client Sample ID: W-SW-05.2 Lab Sample ID: 890-5373-5 Date Collected: 09/28/23 17:15

Date Received: 09/29/23 09:54

	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	63670	09/29/23 16:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63715	10/02/23 13:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			63820	10/02/23 13:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			63863	10/02/23 23:12	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	63769	10/02/23 15:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63710	10/02/23 23:12	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	63721	10/02/23 11:03	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63754	10/02/23 14:04	CH	EET MID

Client Sample ID: W-SW-06.2 Lab Sample ID: 890-5373-6 Date Collected: 09/28/23 17:30 **Matrix: Solid** 

Date Received: 09/29/23 09:54

	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	63670	09/29/23 16:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63715	10/02/23 14:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			63820	10/02/23 14:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			63863	10/02/23 23:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	63769	10/02/23 15:31	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	63710	10/02/23 23:34	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	63721	10/02/23 11:03	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63754	10/02/23 14:24	CH	EET MID

Client Sample ID: S-SW-01.2 Lab Sample ID: 890-5373-7

Date Collected: 09/28/23 17:46 Date Received: 09/29/23 09:54

	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 mL	63670	09/29/23 16:40	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	63715	10/02/23 14:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			63820	10/02/23 14:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			63863	10/02/23 23:55	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	9.98 g 1 uL	10 mL 1 uL	63769 63710	10/02/23 15:31 10/02/23 23:55	TKC SM	EET MID EET MID

**Eurofins Carlsbad** 

**Matrix: Solid** 

### **Lab Chronicle**

Client: Terracon Consulting Eng & Scientists

Project/Site: MOBLEY WATER

Job ID: 890-5373-1

SDG: KH227027

Client Sample ID: S-SW-01.2

Date Collected: 09/28/23 17:46 Date Received: 09/29/23 09:54 Lab Sample ID: 890-5373-7

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	63721	10/02/23 11:03	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	63754	10/02/23 14:30	CH	EET MID

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Laboratory References:

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

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## **Accreditation/Certification Summary**

Client: Terracon Consulting Eng & Scientists

Job ID: 890-5373-1 Project/Site: MOBLEY WATER SDG: KH227027

### **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	T104704400-23-26	06-30-24
The following analytes	are included in this report, bu	t the laboratory is not certifi	ed by the governing authority. This list ma	av include analytes for y
the agency does not of			od by the governing addressity. This list his	ay moldae analytes for
0 ,		Matrix	Analyte	ay molade analytes for t
the agency does not of	fer certification.	•	, , ,	

### **Method Summary**

Client: Terracon Consulting Eng & Scientists

Project/Site: MOBLEY WATER

Job ID: 890-5373-1 SDG: KH227027

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

### **Protocol References:**

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

### Laboratory References:

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

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## **Sample Summary**

Client: Terracon Consulting Eng & Scientists

Project/Site: MOBLEY WATER

Job ID: 890-5373-1 SDG: KH227027

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5373-1	N-SW-02.2	Solid	09/28/23 16:00	09/29/23 09:54	0-5'
890-5373-2	W-SW-02.1	Solid	09/28/23 16:38	09/29/23 09:54	0-5'
890-5373-3	W-SW-03.2	Solid	09/28/23 16:50	09/29/23 09:54	0-5'
890-5373-4	W-SW-04.2	Solid	09/28/23 17:00	09/29/23 09:54	0-5'
890-5373-5	W-SW-05.2	Solid	09/28/23 17:15	09/29/23 09:54	0-5'
890-5373-6	W-SW-06.2	Solid	09/28/23 17:30	09/29/23 09:54	0-5'
890-5373-7	S-SW-01.2	Solid	09/28/23 17:46	09/29/23 09:54	0-5'

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Xenco

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Chain of Custody

Email:						
	City, State ZIP:	Address:	Company Name:	Bill to: (if different)	Hobbs, NM	El Passa TV
				Soprats	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	1015) 585-3443 Hibbon
				Sotrates Non S.	d, NM (575) 988-3199	L TY (806) 704-1706
Deliverables: EDD ADaPT Other:	Reporting: Level II	State of Project:	Program: UST/PST PRP Brownfields RRC Superfund	Work Order Comments	www.xenco.com Pageof	
	LevelIV		Superfund		of	

Circle Method(s) and Metal(s) to be analyzed otice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control W-5W-06.2 W-5W-05-2 Relinquished by: (Signature) Total 200.7 / 6010 W-5W-03-2 1-54-04.2 -01.2 200.8 / 6020: Received by: (Signature) 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni 1700 1638 715 1730 346 TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 474/4748 Date/Time Relinquished by: (Signature) K Se eceived by: (Sig Ag SiO<sub>2</sub> Hg: 1631 / 245.1 / 7470 / 7471 Na Sr TI Sn U V Zn ed Date: 08/25/2020 Rev. 2020. Date/Time

NaOH+Ascorbic Acid: SAPC Zn Acetate+NaOH: Zn Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>; NaSO<sub>3</sub>

Sample Comments

SAMPLE RECEIPT

emp Blank:

Wet ice:

Yes No

ampler's Name:

Trus Casey

TAT starts the day received by the lab, if received by 4:30pm

Due Date:

Routine

MRush 24h

Turn Around

**ANALYSIS REQUEST** 

amples Received Intact:

ample Custody Seals: ooler Custody Seals:

Yes No Yes No

N/A

Correction Factor:

Thermometer ID: Yes

TUMOO

**Parameters** 

Chloride (EPA Methol 300)

BTEXCEPA Mathad 8021B

890-5373 Chain of Custody

H3PO4: HP H2SO 4: H2

NaHSO 4: NABIS

HCL: HC

HNO 3: HN

NaOH: Na

Cool: Cool None: NO

МеОН: Ме

Preservative Codes

DI Water: H<sub>2</sub>O

N-SW-02.

N-SW-02.2

Sample Identification

Matrix 5

Sampled

Sampled

Date

Time

Depth

# of

-1,2 11.4 -0.2

9-28

1600

0-5

Comp Comp Grab/

×

City, State ZIP:

wisher

406 S44 9276

4526 W. Prace St.

roject Name:

Mobiley White

イのとれたが

oject Number: ect Location:

roject Manager:

Joseph Terracon

Guesmel

ompany Name:

Work Order No.

### **Login Sample Receipt Checklist**

Client: Terracon Consulting Eng & Scientists

Job Nu

ORGAN

Job Number: 890-5373-1 SDG Number: KH227027

Login Number: 5373 List Source: Eurofins Carlsbad

List Number: 1

Creator: Bruns, Shannon

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.	N/A	Refer to Job Narrative for details.
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	

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### **Login Sample Receipt Checklist**

Client: Terracon Consulting Eng & Scientists

Job Number: 890-5373-1

SDG Number: KH227027

Login Number: 5373 **List Source: Eurofins Midland** List Number: 2

List Creation: 10/02/23 08:46 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	

<6mm (1/4").

## **APPENDIX E - INITIAL C-141 AND FINAL C-141**

## APPENDIX F – TERRACON STANDARD OF CARE, LIMITATIONS, 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 Midstream LLC, as reflected in our Master Services Agreement.

### **Additional Scope Limitations**

The development of this Amended 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 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 Midstream LLC, 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 Midstream LLC and Terracon. Any unauthorized distribution or reuse is at Solaris Midstream LLC sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions, and limitations stated in the proposal and Solaris Midstream LLC 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 Midstream LLC and all relying parties unless otherwise agreed in writing.



May 15, 2025

Attn: New Mexico Oil Conservation Division

1220 South St. Francis Drive Santa Fe, New Mexico, NM 87505

### **RE:** Amended Closure Report

Solaris Water Midstream, LLC
Mobley Water Recycling Facility
Unit C, Section 19, Township 23 South, Range 30 East
32.2958135°, -103.9252036°
Eddy County, New Mexico
Terracon Project No. KH227027
NMOCD Incident No. nAPP2234144689

### To Whom It May Concern:

Terracon Consultants, Inc. (Terracon) is submitting an Amended Closure Report for the above-referenced site on behalf of Solaris Water Midstream, LLC (Solaris). This amended report was prepared in compliance with the New Mexico Oil Conservation Division (NMOCD) regulations and addresses the remedial actions following the release of produced water from an overfilled treatment tank on December 6, 2022, at the Mobley Water Recycling Facility. This Amended Closure Report was prepared in response to submittal of the Release Investigation, and Closure Report dated October 5, 2023, subsequently denied by the NMOCD on March 7, 2024, stating "FS-14 is over the strictest criteria from Table 1 of the OCD spill rule". Detailed assessment and remedial actions by Terracon are outlined in the following sections.

### **Action Items**

### **Completed Actions**

- 1) The confirmation sampling activities in the area of sample FS-14 were executed on April 24, 2025.
- 2) Utilizing a hand auger, one five-point composite confirmation sample FS-14.1 (5.0-5.5 ft.) representative of a 200-square-foot (sf) area was collected at the former sample FS-14 location and submitted to Eurofins Environmental Testing for analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX), Chloride and total petroleum hydrocarbons (TPH-GRO+DRO+MRO). The sample results for FS-14.1 (5.0-5.5 ft.) for BTEX, Chloride and TPH were below the NMOCD established strictest closure criteria.
- 3) An updated Delineation Sample Location Map and associated data tables for approval have been provided.
- 4) Remedial activities were terminated when confirmation sample SF-14.1 was collected and laboratory results indicated concentrations below the NMOCD RALs

for Oil and Gas impacted soils.

### **Anticipated Actions**

1) Approval by the NMOCD.

### **Reclamation/Remediation Levels**

Parameters	Closure Criteria	Analytical Method
Total Benzene, Toluene, Ethylbenzene and Xylenes (Total BTEX)	50 mg/kg	EPA Method 8021B
Benzene	10 mg/kg	EPA Method 8021B
Chlorides	600 mg/kg	EPA Method 300
Total Petroleum Hydrocarbons (TPH) GRO, DRO and MRO	100 mg/kg	EPA Method 8015M

### **Conclusion and Closure Request**

Based on the laboratory results of the confirmation sampling (sample FS-14.1) at the previous FS-14 sample location, the response action for the release at the Mobley Water Recycling facility on February 17, 2023, has met the closure criteria defined in accordance with NMAC 19.15.29.12. Terracon respectfully requests regulatory closure of incident nAPP2234144689 on behalf of Solaris Water Midstream.

Sincerely,



Prepared by:

**Charles F Smith** 

Senior Project Manager

Lubbock, TX

Reviewed by:

Mike Adams

Mike Adams

Principal

Lubbock, TX

**Attachments:** 

C-141 Summary Sheet

Appendix A - Exhibits

Exhibit 1 – Confirmation Sample Location Map

Appendix B - Tables and Analytical Report

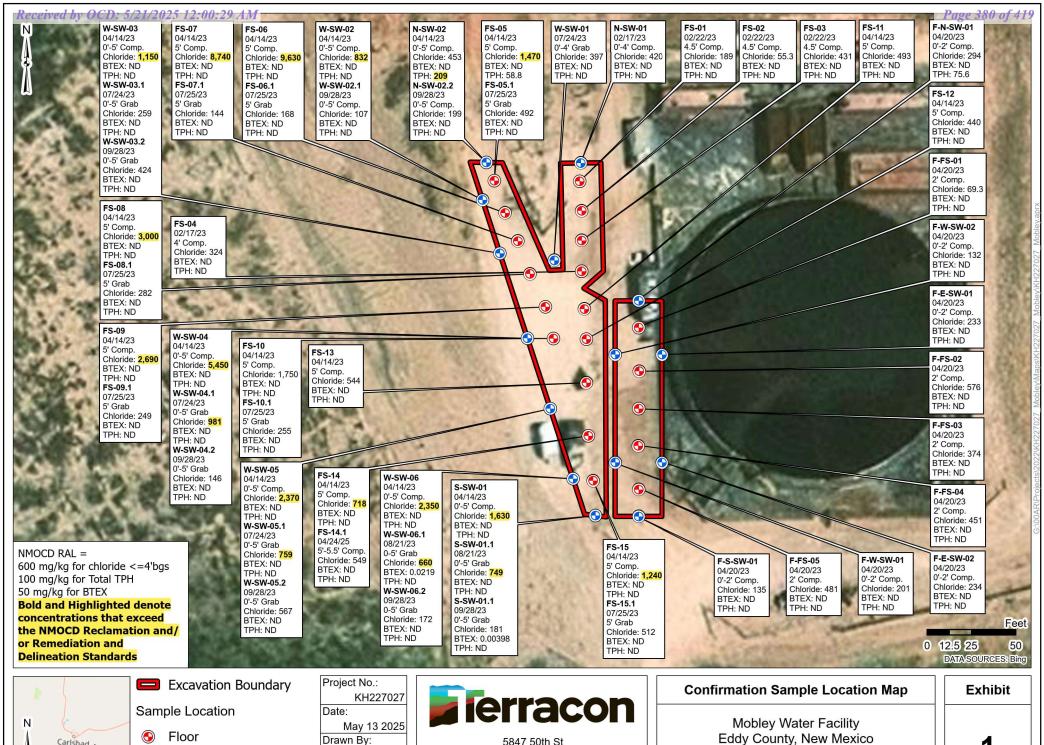
Table 1 – Confirmation Floor Sample Results

Table 2 - Confirmation Wall Sample Results

Appendix C - Analytical Report and Chain of Custody

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

## **APPENDIX A – EXHIBITS**



Carlsbad Released to Imaging: 8 1 Me26 15 20 315 in mg/kg



Floor

Wall

JWL Reviewed By:

**JRG** 



5847 50th St Lubbock, TX

PH. 806-300-0140

terracon.com

Eddy County, New Mexico 32.2958135, -103.9252036

## **APPENDIX B - TABLES**

## Table 1 Soil Analytical Results Summary - Confirmation Evaluation (Floor Samples) Mobley Water Recycle Facility NMOCD Reference No. nAPP2234144689

Sample ID	Sample Date	Sample Depth (ft bgs)	Sample Type	Sample Status	Chloride (mg/Kg) EPA Method 300	Benzene (mg/Kg)  EPA Method 8021B	Total BTEX <sup>1</sup> (mg/Kg)  EPA Method 8021B	Total TPH <sup>2</sup> (mg/Kg)  EPA Method 8015M	Diesel Range Organics (Over C10-C28) (mg/Kg)	Gasoline Range Organics (C6-C10) (mg/Kg)  EPA Method 8015M	Oil Range Organics (Over C28-C36) (mg/Kg)
								001511			
50.01	2 (22 (222	4 =		T			loor Samples	D.L.O.	l NA	D. D	l NA
FS-01	2/22/2023	4.5	Composite	In-situ	189	NA	NA	NA NA	NA NA	NA	NA
FS-02	2/22/2023	4.5	Composite	In-situ	55.3	NA	NA	NA	NA	NA	NA
FS-03	2/22/2023	4.5	Composite	In-situ	431	NA	NA	NA	NA	NA	NA
FS-04	2/17/2023	4.0	Composite	In-situ	324	ND	ND	ND	ND	ND	ND
	2/22/2023	4.5	Composite	In-situ	178	NA	NA	NA	NA	NA	NA
FS-05	4/14/2023	5.0	Composite	Excavated	1,470	ND	ND	58.8	58.8	ND	ND
FS-05.1	7/25/2023	5.0	Composite	In-situ	199	ND	ND	ND	ND	ND	ND
FS-06	4/14/2023	5.0	Composite	Excavated	9,630	ND	ND	ND	ND	ND	ND
FS-06.1	7/25/2023	5.0	Composite	In-situ	168	ND	ND	ND	ND	ND	ND
FS-07	4/14/2023	5.0	Composite	Excavated	8,740	ND	ND	ND	ND	ND	ND
FS-07.1	7/25/2023	5.0	Composite	In-situ	144	ND	ND	ND	ND	ND	ND
FS-08	4/14/2023	5.0	Composite	Excavated	3,000	ND	ND	ND	ND	ND	ND
FS-08.1	7/25/2023	5.0	Composite	In-situ	282	ND	ND	ND	ND	ND	ND
FS-09	4/14/2023	5.0	Composite	Excavated	2,690	ND	ND	ND	ND	ND	ND
FS-09.1	7/25/2023	5.0	Composite	In-situ	249	ND	ND	ND	ND	ND	ND
FS-10	4/14/2023	5.0	Composite	Excavated	1,750	ND	ND	ND	ND	ND	ND
FS-10.1	7/25/2023	5.0	Composite	In-situ	225	ND	ND	ND	ND	ND	ND
FS-11	4/14/2023	5.0	Composite	In-situ	493	ND	ND	ND	ND	ND	ND
FS-12	4/14/2023	5.0	Composite	In-situ	440	ND	ND	ND	ND	ND	ND
FS-13	4/14/2023	5.0	Composite	In-situ	544	ND	ND	ND	ND	ND	ND
FS-14	4/14/2023	5.0	Composite	In-situ	718	ND	ND	ND	ND	ND	ND
FS14.1	4/24/2025	5.0-5.5	Composite	In-situ	549	ND	ND	ND	ND	ND	ND
FS-15	4/14/2023	5.0	Composite	Excavated	1,240	ND	ND	ND	ND	ND	ND
FS-15.1	7/25/2023	5.0	Composite	In-situ	512	ND	ND	ND	ND	ND	ND
F-FS01	4/20/2023	0-2.0	Composite	In-situ	69.3	ND	ND	ND	ND	ND	ND
F-FS02	4/20/2023	0-2.0	Composite	In-situ	576	ND	ND	ND	ND	ND	ND
F-FS03	4/20/2023	0-2.0	Composite	In-situ	374	ND	ND	ND	ND	ND	ND
F-FS04	4/20/2023	0-2.0	Composite	In-situ	451	ND	ND	ND	ND	ND	ND
F-FS05	4/20/2023	0-2.0	Composite	In-situ	481	ND	ND	ND	ND	ND	ND
	NMOCD Reclar	nation Stai	ndards³		600	10	50	100		N/A	
	NMOCD Remed	diation Star	ndards <sup>4</sup>		600	10	50	100		N/A	

- 1. BTEX = Benzene, toluene, ethylbenzene, and total xylenes
- 2. TPH = Total petroleum hydrocarbons
- 3. New Mexico Administration Code (NMAC) Restoration, Reclamation and Re-vegetation (19.15.29.13), NMAC-D (Reclamation of Areas No Longer in Use) for Soils Extending to 4 ft. bgs
- 4. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (19.15.29.12) NMAC-N, 8/14/2018

ND = Constituent was not detected above the laboratory sample detection limit (SDL).

NA = Not Analyzed

N/A = Not Applicable

#### **Bold denotes concentrations above applicable laboratory SDLs.**

Bold and Highlighted denote concentrations that exceed the NMOCD Reclamation and/or Remediation and Delineation Standards.

In-situ = Sample is representative of material which remains in-place at the site.

Excavated = Sample is representative of materials which was excavated and disposed of at a permitted disposal facility.

## Table 2 Soil Analytical Results Summary - Confirmation Evaluation (Wall Samples) Mobley Water Recycle Facility

NMOCD Reference No. nAPP2234144689

Sample ID	Sample Date	Sample Depth	Sample Type	Sample Status	Chloride (mg/Kg)	Benzene (mg/Kg)	Total BTEX <sup>1</sup> (mg/Kg)	Total TPH <sup>2</sup> (mg/Kg)	Diesel Range Organics (Over C10-C28) (mg/Kg)	Gasoline Range Organics (C6-C10) (mg/Kg)	Oil Range Organics (Over C28-C36) (mg/Kg)
		(ft bgs)	.,,,,		EPA Method 300	EPA Method 8021B	EPA Method 8021B	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M	EPA Method 8015M
			<u> </u>		Co	nfirmation \	Vall Samples				
N-SW-01	2/17/2023	0-4	Composite	In-situ	420	ND	ND	ND	ND	ND	ND
E-SW-01	2/17/2023	0-4	Composite	In-situ	87	ND	ND	ND	ND	ND	ND
W-SW-01	2/22/2023	0-4	Composite	In-situ	397	NA	NA	NA	NA	NA	NA
N-SW-02	4/14/2023	0-5	Composite	In-situ	453	ND	ND	209	124	ND	84.5
N-SW-02.2	9/28/2023	0-5	Composite	In-situ	199	ND	ND	ND	ND	ND	ND
E-SW-2	4/14/2023	0-5	Composite	Excavated	30,500	ND	ND	ND	ND	ND	ND
W-SW-02.1	9/28/2023	0-5	Composite	In-situ	107	ND	ND	ND	ND	ND	ND
E-SW-04	4/14/2023	0-5	Composite	In-situ	74.9	ND	ND	ND	ND	ND	ND
W-SW-02	4/14/2023	0-5	Composite	In-situ	832	ND	ND	ND	ND	ND	ND
W-SW-03	4/14/2023	0-5	Composite	Excavated	1150	ND	ND	ND	ND	ND	ND
W-SW-03.1	7/24/2023	0-5	Composite	In-situ	259	ND	ND	ND	ND	ND	ND
W-SW-03.2	9/28/2023	0-5	Composite	In-situ	424	ND	ND	ND	ND	ND	ND
W-SW-04	4/14/2023	0-5	Composite	Excavated	5450	ND	ND	ND	ND	ND	ND
W-SW-04.1	7/24/2023	0-5	Composite	In-situ	981	ND	ND	ND	ND	ND	ND
W-SW-04.2	9/28/2023	0-5	Composite	In-situ	146	ND	ND	ND	ND	ND	ND
W-SW-05	4/14/2023	0-5	Composite	Excavated	2370	ND	ND	ND	ND	ND	ND
W-SW-05.1	7/24/2023	0-5	Composite	In-situ	759	ND	ND	ND	ND	ND	ND
W-SW-05.2	9/28/2023	0-5	Composite	In-situ	567	ND	ND	ND	ND	ND	ND
W-SW-06	4/14/2023	0-5	Composite	Excavated	2350	ND	ND	ND	ND	ND	ND
W-SW-06.1	8/21/2023	0-5	Composite	In-situ	660	ND	0.0219	ND	ND	ND	ND
W-SW-06.2	9/28/2023	0-5	Composite	In-situ	172	ND	ND	ND	ND	ND	ND
S-SW-01	4/14/2023	0-5	Composite	Excavated	1630	ND	ND	ND	ND	ND	ND
S-SW-01.1	8/21/2023	0-5	Composite	In-situ	749	ND	ND	ND	ND	ND	ND
S-SW-01.2	9/28/2023	0-5	Composite	In-situ	181	ND	ND	ND	ND	ND	ND
F-E-SW1	4/20/2023	0-2	Composite	In-situ	233	ND	ND	ND	ND	ND	ND
F-E-SW2	4/20/2023	0-2	Composite	In-situ	234	ND	ND	ND	ND	ND	ND
F-N-SW1	4/20/2023	0-2	Composite	In-situ	294	ND	ND	75.6	75.6	ND	ND
F-S-SW1	4/20/2023	0-2	Composite	In-situ	135	ND	ND	ND	ND	ND	ND
F-W-SW1	4/20/2023	0-2	Composite	In-situ	201	ND	ND	ND	ND	ND	ND
F-W-SW2	4/20/2023	0-2	Composite	In-situ	132	ND	ND	ND	ND	ND	ND
	NMOCD Recla	mation Sta	ndards <sup>3</sup>		600	10	50	100		N/A	
	NMOCD Reme	diation Sta	ndards <sup>4</sup>		600	10	50	100		N/A	

- 1. BTEX = Benzene, toluene, ethylbenzene, and total xylenes
- 2. TPH = Total petroleum hydrocarbons
- 3. New Mexico Administration Code (NMAC) Restoration, Reclamation and Re-vegetation (19.15.29.13), NMAC-D (Reclamation of Areas No Longer in Use) for Soils Extending to 4 ft. bgs
- 4. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards (19.15.29.12) NMAC-N, 8/14/2018
- ND = Constituent was not detected above the laboratory sample detection limit (SDL).

NA = Not Analyzed

N/A = Not applicable

Bold denotes concentrations above applicable laboratory SDLs.

Bold and Highlighted denote concentrations that exceed the NMOCD Reclamation and/or Remediation and Delineation Standards.

In-situ = Sample is representative of material which remains in-place at the site.

Excavated = Sample is representative of materials which was excavated and disposed of at a permitted disposal facility.

# APPENDIX C – ANALYTICAL REPORT AND CHAIN OF CUSTODY

**Environment Testing** 

## **ANALYTICAL REPORT**

## PREPARED FOR

Attn: Chuck Smith Terracon Consulting Eng & Scientists 5847 50th St Lubbock, Texas 79424

Generated 5/13/2025 10:19:18 AM Revision 1

## **JOB DESCRIPTION**

Mobley Water Facility KH227027

## **JOB NUMBER**

820-18644-1

Eurofins Lubbock 6701 Aberdeen Ave. Suite 8 Lubbock TX 79424

## **Eurofins Lubbock**

### **Job Notes**

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

### **Authorization**

Generated 5/13/2025 10:19:18 AM Revision 1

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440

Eurofins Lubbock is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

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## **Eurofins Lubbock**

## **Compliance Statement**

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 nondetect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

#### Coliform MCLs

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

### Warranties, Terms, and Conditions

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

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

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

WG = field staff performs tests under NJ State certification # PA001, PA State certification # 48-01334. H = field staff performs tests under NJ NELAP certification # PA093, PA NELAP certification # 46-05499.

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

MRAMER

Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water Facility

Laboratory Job ID: 820-18644-1 SDG: KH227027

## **Table of Contents**

Cover Page	1
Table of Contents	4
Definitions/Glossary	5
Case Narrative	6
Client Sample Results	7
Surrogate Summary	8
QC Sample Results	9
QC Association Summary	13
Lab Chronicle	15
Certification Summary	16
Method Summary	17
Sample Summary	18
Chain of Custody	19
Receipt Checklists	20

### **Definitions/Glossary**

Client: Terracon Consulting Eng & Scientists Job ID: 820-18644-1 Project/Site: Mobley Water Facility

SDG: KH227027

### **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.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.
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
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NO	N. O. L. L.

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)

RLReporting Limit or Requested Limit (Radiochemistry)

**RPD** Relative Percent Difference, a measure of the relative difference between two points

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

TNTC Too Numerous To Count

### **Case Narrative**

Client: Terracon Consulting Eng & Scientists

Project: Mobley Water Facility

Job ID: 820-18644-1

Job ID: 820-18644-1

**Eurofins Lubbock** 

Job Narrative 820-18644-1

### **REVISION**

The report being provided is a revision of the original report sent on 5/2/2025. The report (revision 1) is being revised due to Per client email, requesting sample depth correction.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these
  situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise
  specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

### Receipt

The sample was received on 4/25/2025 4:01 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 9.7°C.

### **GC VOA**

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

### Diesel Range Organics

Method 8015MOD\_NM: The surrogate recovery for the blank associated with preparation batch 880-108994 and analytical batch 880-109154 was outside the upper control limits.

Method 8015MOD\_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: FS-14.1 (820-18644-1), (LCS 880-108994/2-A), (LCSD 880-108994/3-A), (880-57466-A-27-B), (880-57466-A-27-C MS) and (880-57466-A-27-D MSD). Percent recoveries are based on the amount spiked.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-109154/19) and (CCV 880-109154/4). Evidence of matrix interferences is not obvious.

Method 8015MOD\_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-108994 and analytical batch 880-109154 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.

### HPLC/IC

Method 300\_ORGFM\_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-109074 and analytical batch 880-109083 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

**Eurofins Lubbock** 

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## **Client Sample Results**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water Facility

Client Sample ID: FS-14.1

Lab Sample ID: 820-18644-1

SDG: KH227027

Job ID: 820-18644-1

Date Collected: 04/24/25 13:00 Date Received: 04/25/25 16:01

_	 	-	 	 _		_					-	_	-
					N	la	tr	Ċ	C:	S	36	ll	d

Sample Depth: 5.0-5.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/30/25 08:00	04/30/25 20:14	
Toluene	<0.00200	U	0.00200		mg/Kg		04/30/25 08:00	04/30/25 20:14	•
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/30/25 08:00	04/30/25 20:14	•
m,p-Xylenes	<0.00401	U	0.00401		mg/Kg		04/30/25 08:00	04/30/25 20:14	•
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/30/25 08:00	04/30/25 20:14	•
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/30/25 08:00	04/30/25 20:14	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	89		70 - 130				04/30/25 08:00	04/30/25 20:14	-
1,4-Difluorobenzene (Surr)	91		70 - 130				04/30/25 08:00	04/30/25 20:14	
Method: TAL SOP Total BTEX	( - Total BTE	X Calculat	ion						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			04/30/25 20:14	•
Method: SW846 8015 NM - Di	_	<mark>Organics (</mark> Qualifier	DRO) (GC) RL	MDI	Unit	D	Dranarad	Analyzad	Dil Fac
Analyte Total TPH	<49.8			MDL	Unit	ט	Prepared	Analyzed	DII Fac
IOIAI IPH	\$49.8		40.0					0E/04/0E 4E-44	
•		U	49.8		mg/Kg			05/01/25 15:44	
: Method: SW846 8015B NM - [					mg/Kg			05/01/25 15:44	
	Diesel Range			MDL	mg/Kg Unit		Prepared	05/01/25 15:44  Analyzed	Dil Fac
Analyte Gasoline Range Organics	Diesel Range	Organics Qualifier	(DRO) (GC)	MDL		D	Prepared 04/29/25 15:11		Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Diesel Range Result	Organics Qualifier	(DRO) (GC)	MDL	Unit	<u>D</u>		Analyzed	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Diesel Range Result <49.8	e Organics Qualifier U	(DRO) (GC) RL 49.8	MDL	Unit mg/Kg	D	04/29/25 15:11	Analyzed 05/01/25 15:44 05/01/25 15:44	
Analyte  Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)	Diesel Range Result <49.8	Qualifier U  Qualifier	(DRO) (GC) RL 49.8	MDL	Unit mg/Kg mg/Kg	<u>D</u>	04/29/25 15:11 04/29/25 15:11	Analyzed 05/01/25 15:44 05/01/25 15:44	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate	Name	Qualifier U  Qualifier	(DRO) (GC) RL 49.8 49.8	MDL	Unit mg/Kg mg/Kg	<u>D</u>	04/29/25 15:11 04/29/25 15:11 04/29/25 15:11	Analyzed 05/01/25 15:44 05/01/25 15:44 05/01/25 15:44	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane (Surr)	Name	Qualifier U  Qualifier	49.8 Limits	MDL	Unit mg/Kg mg/Kg	<u>D</u>	04/29/25 15:11 04/29/25 15:11 04/29/25 15:11 <i>Prepared</i>	Analyzed 05/01/25 15:44 05/01/25 15:44 05/01/25 15:44 Analyzed	
Method: SW846 8015B NM - I Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane (Surr) o-Terphenyl (Surr)  Method: EPA 300.0 - Anions,	Name	Qualifier U  U  Qualifier S1- S1-	49.8 49.8 49.8 49.8 49.8 Limits 70 - 130 70 - 130	MDL	Unit mg/Kg mg/Kg	<u>D</u>	04/29/25 15:11 04/29/25 15:11 04/29/25 15:11 Prepared 04/29/25 15:11	Analyzed 05/01/25 15:44 05/01/25 15:44 05/01/25 15:44  Analyzed 05/01/25 15:44	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oil Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane (Surr) o-Terphenyl (Surr)	Diesel Range Result <49.8 <49.8 <49.8  %Recovery 67 65  Ion Chroma	Qualifier U  U  Qualifier S1- S1-	49.8 49.8 49.8 49.8 49.8 Limits 70 - 130 70 - 130		Unit mg/Kg mg/Kg	D_	04/29/25 15:11 04/29/25 15:11 04/29/25 15:11 Prepared 04/29/25 15:11	Analyzed 05/01/25 15:44 05/01/25 15:44 05/01/25 15:44  Analyzed 05/01/25 15:44	

### **Surrogate Summary**

Client: Terracon Consulting Eng & Scientists Job ID: 820-18644-1 Project/Site: Mobley Water Facility SDG: KH227027

Method: 8021B - Volatile Organic Compounds (GC)

**Matrix: Solid Prep Type: Total/NA** 

			Percent	t Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
820-18644-1	FS-14.1	89	91	
880-56959-A-17-A MB	Method Blank	84	91	
890-8045-A-11-C MS	Matrix Spike	102	101	
890-8045-A-11-D MSD	Matrix Spike Duplicate	112	104	
LCS 880-108996/1-A	Lab Control Sample	104	86	
LCSD 880-108996/2-A	Lab Control Sample Dup	111	93	
MB 880-108996/5-A	Method Blank	83	89	

BFB = 4-Bromofluorobenzene (Surr) DFBZ = 1,4-Difluorobenzene (Surr)

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

**Matrix: Solid** Prep Type: Total/NA

		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
820-18644-1	FS-14.1	67 S1-	65 S1-	
880-57466-A-27-C MS	Matrix Spike	35 S1-	29 S1-	
880-57466-A-27-D MSD	Matrix Spike Duplicate	43 S1-	37 S1-	
LCS 880-108994/2-A	Lab Control Sample	21 S1-	14 S1-	
LCSD 880-108994/3-A	Lab Control Sample Dup	18 S1-	13 S1-	
MB 880-108994/1-A	Method Blank	142 S1+	137 S1+	

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

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water Facility

Job ID: 820-18644-1

SDG: KH227027

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

Lab Sample ID: 880-56959-A-17-A MB

**Matrix: Solid** 

Analysis Batch: 109033

**Client Sample ID: Method Blank** 

**Prep Type: Total/NA** 

**Prep Batch: 108996** 

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/30/25 08:00	04/30/25 17:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/30/25 08:00	04/30/25 17:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/30/25 08:00	04/30/25 17:10	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		04/30/25 08:00	04/30/25 17:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/30/25 08:00	04/30/25 17:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/30/25 08:00	04/30/25 17:10	1
	440	140							

MB MB

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	84	70 - 130
1,4-Difluorobenzene (Surr)	91	70 - 130

04/30/25 08:00 04/30/25 17:10 04/30/25 08:00 04/30/25 17:10

Analyzed

Prepared

Lab Sample ID: MB 880-108996/5-A

**Matrix: Solid** 

**Analysis Batch: 109033** 

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

Prep Batch: 108996

•	МВ	MB						•	
Analyte	Result	Qualifier	RL	MDL U	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	r	mg/Kg		04/30/25 08:00	04/30/25 11:42	1
Toluene	<0.00200	U	0.00200	r	mg/Kg		04/30/25 08:00	04/30/25 11:42	1
Ethylbenzene	<0.00200	U	0.00200	r	mg/Kg		04/30/25 08:00	04/30/25 11:42	1
m,p-Xylenes	<0.00400	U	0.00400	r	mg/Kg		04/30/25 08:00	04/30/25 11:42	1
o-Xylene	<0.00200	U	0.00200	r	mg/Kg		04/30/25 08:00	04/30/25 11:42	1
Xylenes, Total	<0.00400	U	0.00400	r	mg/Kg		04/30/25 08:00	04/30/25 11:42	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83	70 - 130	04/30/25 08:00	04/30/25 11:42	1
1,4-Difluorobenzene (Surr)	89	70 - 130	04/30/25 08:00	04/30/25 11:42	1

Lab Sample ID: LCS 880-108996/1-A

**Matrix: Solid** 

**Analysis Batch: 109033** 

**Client Sample ID: Lab Control Sample** 

**Client Sample ID: Lab Control Sample Dup** 

Prep Type: Total/NA **Prep Batch: 108996** 

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09850		mg/Kg		99	70 - 130	
Toluene	0.100	0.09349		mg/Kg		93	70 - 130	
Ethylbenzene	0.100	0.1129		mg/Kg		113	70 - 130	
m,p-Xylenes	0.200	0.2177		mg/Kg		109	70 - 130	
o-Xylene	0.100	0.1093		mg/Kg		109	70 - 130	

LCS LCS

Surrogate	%Recovery Qualit	fier Limits
4-Bromofluorobenzene (Surr)	104	70 - 130
1,4-Difluorobenzene (Surr)	86	70 <sub>-</sub> 130

Lab Sample ID: LCSD 880-108996/2-A

**Matrix: Solid** 

Analyte Benzene

**Analysis Batch: 109033** 

						Prep ly Prep Ba	•	
Spike	LCSD	LCSD				%Rec		RPD
Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
0,100	0.1082		mg/Kg		108	70 - 130	9	35

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Dil Fac

### QC Sample Results

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water Facility

Job ID: 820-18644-1

SDG: KH227027

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

Lab Sample ID: LCSD 880-108996/2-A

**Matrix: Solid** 

**Analysis Batch: 109033** 

<b>Client Sample</b>	ID: I	Lab	Control	<b>Sample</b>	Dup

Prep Type: Total/NA **Prep Batch: 108996** 

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.09549		mg/Kg		95	70 - 130	2	35
Ethylbenzene	0.100	0.1091		mg/Kg		109	70 - 130	3	35
m,p-Xylenes	0.200	0.2484		mg/Kg		124	70 - 130	13	35
o-Xylene	0.100	0.1258		mg/Kg		126	70 - 130	14	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 890-8045-A-11-C MS **Client Sample ID: Matrix Spike** 

**Matrix: Solid** 

**Analysis Batch: 109033** 

**Prep Type: Total/NA** 

**Prep Batch: 108996** 

,	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00200	U	0.100	0.09466		mg/Kg		95	70 - 130
Toluene	<0.00200	U	0.100	0.08440		mg/Kg		84	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.09811		mg/Kg		98	70 - 130
m,p-Xylenes	<0.00399	U	0.200	0.1814		mg/Kg		91	70 - 130
o-Xylene	<0.00200	U	0.100	0.08998		mg/Kg		90	70 - 130

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	102	70 - 130
1,4-Difluorobenzene (Surr)	101	70 - 130

Lab Sample ID: 890-8045-A-11-D MSD

**Matrix: Solid** 

Analysis Batch: 109033

Client Sample ID: Matrix Spike Duplicate

**Prep Type: Total/NA** 

**Prep Batch: 108996** 

Analysis Baton: 100000									I I CP D	ACOII. 10	,000
_	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		106	70 - 130	11	35
Toluene	<0.00200	U	0.100	0.08392		mg/Kg		84	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.100	0.1061		mg/Kg		106	70 - 130	8	35
m,p-Xylenes	<0.00399	U	0.200	0.2014		mg/Kg		101	70 - 130	10	35
o-Xylene	<0.00200	U	0.100	0.1005		mg/Kg		100	70 - 130	11	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

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

Lab Sample ID: MB 880-108994/1-A

**Matrix: Solid** 

Analysis Batch: 109154

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

**Prep Batch: 108994** 

MB MB Analyte Result Qualifier RL MDL Unit Prepared Analyzed Gasoline Range Organics <50.0 U 50.0 mg/Kg 04/29/25 15:11 05/01/25 08:38 (GRO)-C6-C10

### QC Sample Results

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water Facility

Job ID: 820-18644-1

SDG: KH227027

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

Lab Sample ID: MB 880-108994/1-A **Matrix: Solid** 

Analysis Batch: 109154

**Client Sample ID: Method Blank** 

**Prep Type: Total/NA Prep Batch: 108994** 

	МВ	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		04/29/25 15:11	05/01/25 08:38	1
Oil Range Organics (Over C2	8-C36) <50.0	U	50.0		mg/Kg		04/29/25 15:11	05/01/25 08:38	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	142	S1+	70 - 130	$04/29/25 \ 15:11 $	5/01/25 08:38	1
o-Terphenyl (Surr)	137	S1+	70 - 130	04/29/25 15:11 09	5/01/25 08:38	1

**Client Sample ID: Lab Control Sample** 

Lab Sample ID: LCS 880-108994/2-A **Matrix: Solid** 

Analysis Batch: 109154

**Prep Type: Total/NA** 

Prep Batch: 108994

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	1057		mg/Kg		106	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	1166		mg/Kg		117	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	21	S1-	70 - 130
o-Terphenyl (Surr)	14	S1-	70 - 130

Lab Sample ID: LCSD 880-108994/3-A Client Sample ID: Lab Control Sample Dup

**Matrix: Solid** 

Analysis Batch: 109154

**Prep Type: Total/NA** 

Prep Batch: 108994

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	974.8		mg/Kg		97	70 - 130	8	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1076		mg/Kg		108	70 - 130	8	20
C10-C28)									

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	18	S1-	70 - 130
o-Terphenyl (Surr)	13	S1-	70 - 130

Lab Sample ID: 880-57466-A-27-C MS

**Matrix: Solid** 

Analysis Batch: 109154

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

Prep Batch: 108994

-	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 F1	998	541.1	F1	mg/Kg		54	70 - 130	
Diesel Range Organics (Over	<49.9	U F1 F2	998	258.8	F1	mg/Kg		26	70 - 130	

C10-C28)

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	35	S1-	70 - 130
o-Terphenvl (Surr)	29	S1-	70 - 130

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water Facility

Job ID: 820-18644-1

SDG: KH227027

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

Lab Sample ID: 880-57466-A-27-D MSD

**Matrix: Solid** 

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

Analysis Batch: 109154

**Prep Batch: 108994** 

,												
	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 F1	998	610.2	F1	mg/Kg		61	70 - 130	12	20	
Diesel Range Organics (Over	<49.9	U F1 F2	998	321.2	F1 F2	ma/Ka		32	70 - 130	22	20	

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	43	S1-	70 - 130
o-Terphenyl (Surr)	37	S1-	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-109074/1-A **Client Sample ID: Method Blank Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 109083

MB MB

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg			04/30/25 16:42	1

Lab Sample ID: LCS 880-109074/2-A

**Client Sample ID: Lab Control Sample** 

**Client Sample ID: Lab Control Sample Dup** 

**Prep Type: Soluble** 

**Prep Type: Soluble** 

Client Sample ID: FS-14.1 **Prep Type: Soluble** 

Client Sample ID: FS-14.1

**Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 109083** 

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Chloride	250	260.0		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-109074/3-A

**Matrix: Solid** 

**Analysis Batch: 109083** 

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	239.7		ma/Ka		96	90 - 110	8		

Lab Sample ID: 820-18644-1 MS

**Matrix: Solid** 

**Analysis Batch: 109083** 

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	549	F1	249	878.4	F1	ma/Ka		132	90 - 110	 

Lab Sample ID: 820-18644-1 MSD

**Matrix: Solid** 

Analysis Ratch: 100002

Analysis Batch: 109063											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	549	F1	249	890.3	F1	mg/Kg		137	90 - 110	1	20

## **QC Association Summary**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water Facility

Job ID: 820-18644-1 SDG: KH227027

### **GC VOA**

#### **Prep Batch: 108996**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-18644-1	FS-14.1	Total/NA	Solid	5035	
880-56959-A-17-A MB	Method Blank	Total/NA	Solid	5035	
MB 880-108996/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-108996/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-108996/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8045-A-11-C MS	Matrix Spike	Total/NA	Solid	5035	
890-8045-A-11-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

#### **Analysis Batch: 109033**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-18644-1	FS-14.1	Total/NA	Solid	8021B	108996
880-56959-A-17-A MB	Method Blank	Total/NA	Solid	8021B	108996
MB 880-108996/5-A	Method Blank	Total/NA	Solid	8021B	108996
LCS 880-108996/1-A	Lab Control Sample	Total/NA	Solid	8021B	108996
LCSD 880-108996/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	108996
890-8045-A-11-C MS	Matrix Spike	Total/NA	Solid	8021B	108996
890-8045-A-11-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	108996

#### **Analysis Batch: 109236**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-18644-1	FS-14.1	Total/NA	Solid	Total BTEX	

#### **GC Semi VOA**

#### Prep Batch: 108994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-18644-1	FS-14.1	Total/NA	Solid	8015NM Prep	
MB 880-108994/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-108994/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-108994/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-57466-A-27-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-57466-A-27-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

#### **Analysis Batch: 109154**

Lab Sample ID 820-18644-1	Client Sample ID FS-14.1	Prep Type Total/NA	Matrix Solid	Method 8015B NM	<b>Prep Batch</b> 108994
MB 880-108994/1-A	Method Blank	Total/NA	Solid	8015B NM	108994
LCS 880-108994/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	108994
LCSD 880-108994/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	108994
880-57466-A-27-C MS	Matrix Spike	Total/NA	Solid	8015B NM	108994
880-57466-A-27-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	108994

#### **Analysis Batch: 109351**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-18644-1	FS-14.1	Total/NA	Solid	8015 NM	

#### HPLC/IC

#### Leach Batch: 109074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-18644-1	FS-14.1	Soluble	Solid	DI Leach	
MB 880-109074/1-A	Method Blank	Soluble	Solid	DI Leach	

**Eurofins Lubbock** 

## **QC Association Summary**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water Facility

Job ID: 820-18644-1 SDG: KH227027

### **HPLC/IC (Continued)**

#### Leach Batch: 109074 (Continued)

<b>Lab Sample ID</b> LCS 880-109074/2-A	Client Sample ID Lab Control Sample	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
LCSD 880-109074/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
820-18644-1 MS	FS-14.1	Soluble	Solid	DI Leach	
820-18644-1 MSD	FS-14.1	Soluble	Solid	DI Leach	

#### **Analysis Batch: 109083**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-18644-1	FS-14.1	Soluble	Solid	300.0	109074
MB 880-109074/1-A	Method Blank	Soluble	Solid	300.0	109074
LCS 880-109074/2-A	Lab Control Sample	Soluble	Solid	300.0	109074
LCSD 880-109074/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	109074
820-18644-1 MS	FS-14.1	Soluble	Solid	300.0	109074
820-18644-1 MSD	FS-14.1	Soluble	Solid	300.0	109074

Job ID: 820-18644-1

### **Lab Chronicle**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water Facility

SDG: KH227027

Client Sample ID: FS-14.1

Lab Sample ID: 820-18644-1

Matrix: Solid

Date Collected: 04/24/25 13:00 Date Received: 04/25/25 16:01

	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	108996	04/30/25 08:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109033	04/30/25 20:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109236	04/30/25 20:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			109351	05/01/25 15:44	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	108994	04/29/25 15:11	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109154	05/01/25 15:44	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	109074	04/30/25 10:50	SI	EET MID
Soluble	Analysis	300.0		1			109083	04/30/25 17:00	CH	EET MID

#### **Laboratory References:**

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

**Eurofins Lubbock** 

## **Accreditation/Certification Summary**

Client: Terracon Consulting Eng & Scientists

Job ID: 820-18644-1 Project/Site: Mobley Water Facility SDG: KH227027

### **Laboratory: Eurofins Midland**

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

Authority	Progr	am	Identification Number	<b>Expiration Date</b>
exas	NELA	Р	T104704400	06-30-25
The following analyte:	s are included in this reno	rt but the laboratory is r	not certified by the governing authori	ty. This list may inc
ino following analyto	o are moladed in tille repe	it, but the laberatory is i	for certified by the governing authori	ty. Triis list iliay ilio
,	does not offer certification	•	for sertified by the governing authori	ty. This list may me
,	· ·	•	Analyte	ty. This list may me
for which the agency	does not offer certification		, , ,	

### **Method Summary**

Client: Terracon Consulting Eng & Scientists

Project/Site: Mobley Water Facility

Job ID: 820-18644-1 SDG: KH227027

SDG: KH227027

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

#### **Protocol References:**

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

#### **Laboratory References:**

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

**Eurofins Lubbock** 

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## **Sample Summary**

Client: Terracon Consulting Eng & Scientists Project/Site: Mobley Water Facility

Job ID: 820-18644-1

SDG: KH227027

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
820-18644-1	FS-14.1	Solid	04/24/25 13:00	04/25/25 16:01	5.0-5.5

TEMP OF COOLER (4,7/9,7) WHEN RECEIVED (°C) Lab Sample ID Page 1 of 1 820-18644 Chain of Custody ioseph, guesnier@terracon.com zach.mueller@terracon.com chuck.smith@terracon.com **≗** e-mail results to: CHAIN OF CU Yes Lubbock Office m 5847 50th Street m Lubbock, Texas 79424 m 806-300-0140 **TPH 8015** × ANALYSIS REQUESTED BTEX (EPA Method 8021B) 3 TRRP Laboratory Review Checklist Chloride (EPA Method 300) No. Type of Containers 1/sph Responsive - Resourceful - Reliable Lubbock, Texas 79424 6701 Aberdeen d oz Glass 0/0 5,5 End Depth (FT) Xenco (FT) 6/25 (TE) relived by (Signature) Laboratory: Address: sceived by (Signature) eceived by (Signature 24-Hour Rush 3 Phone: Contact: Mobley Water Facility Identifying Marks of Sample(s) 00 FS-14.1 250 ml = Glass wide mouth ☐ 72-Hour Rush 4-25-25 Project Name Jate: Normal A/G - Amber Glass 11 W. Water Grab Chuck Smith Zach Mueller Comp × Lubbock Time 13:00 KH227027 WW-Wastewate VOA - 40 ml vial Sampler's Signature TURNAROUND TIME Project Manager Sampler's Name Project Number Office Location finquished by (Signature) nquished by (Signature) uished by (Signature) 4/24/2025 Date Matrix

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### **Login Sample Receipt Checklist**

Client: Terracon Consulting Eng & Scientists

Job Number: 820-18644-1 SDG Number: KH227027

**List Source: Eurofins Lubbock** 

Login Number: 18644 List Number: 1

Creator: Pena, Yazmeane

Croater Forta, raminoune		
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	

**Eurofins Lubbock** 

Released to Imaging: 6/10/2025 2:35:50 PM

<6mm (1/4").

### **Login Sample Receipt Checklist**

Client: Terracon Consulting Eng & Scientists

Job Number: 820-18644-1 SDG Number: KH227027

Login Number: 18644
List Number: 2
List Source: Eurofins Midland
List Number: 2
List Creation: 04/29/25 03:24 PM

Creator: Laing, Edmundo

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

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## APPENDIX D – TERRACON STANDARD OF CARE, LIMITATIONS, 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, LLC (Client), as reflected in our Master Services Agreement.

#### **Additional Scope Limitations**

The development of this Amended Closure Report 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 recommendations are based solely upon reformation executed within the scope of these services.

#### Reliance

This report has been prepared for the exclusive use of Client, 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 Client and Terracon. Any unauthorized distribution or reuse is at Client sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions, and limitations stated in the proposal and Client 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 Client and all relying parties unless otherwise agreed in writing.

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

State of New Mexico Energy Minerals and Natural Resources Department

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

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

Incident ID	nAPP2234144689
District RP	
Facility ID	
Application ID	

## **Release Notification**

			Resp	onsi	ble Party	y		
Responsible Party Solaris Water, LLC			OGRID 371643					
Contact Name Rob Kirk				Contact Telephone O 575- 300-5155 C 469-978-5620				
Contact ema	<sup>il</sup> rob.kirk	@ariswater.co	om			(assigned by OCD)		
Contact mai	ling address	3305 Boyd Driv	/e, Carlsbad, N	IM 882	220			
Latitude 32.297112 Longitude -103.92169								
C'. N	- 10 A			cimai ae	grees to 5 decim			
Site Name M	obley Wa	ater Recycling	Facility				ecycling and Disposal	
Date Release	Discovered	12/6/2022			API# (if app	licable) 30-015-	45072	
Unit Letter   Section   Township   Range   County								
С	19	238	30E	Eddy	County			
Surface Owne	Surface Owner: State Federal Tribal Private (Name: Mobley family  Nature and Volume of Release							
Crude Oi	Materia	Volume Release	that apply and attach d (bbls)	calculati	ions or specific	volume Reco	volumes provided below) vered (bbls)	
✓ Produced	Water	Volume Release	d (bbls)			Volume Recovered (bbls)		
Is the concentration of dissolved chloride produced water >10,000 mg/l?			in the	✓ Yes □ N				
Condensate Volume Released (bbls)				Volume Recov	vered (bbls)			
☐ Natural Gas Volume Released (Mcf)				Volume Recovered (Mcf)				
Other (describe) Volume/Weight Released (provide units)			Volume/Weig	ht Recovered (provide units)				
Cause of Rele	70 BE	BLs were relea eximatley 10 B	esed with 60 BLs escaped	BBLs seco	aptured in removed ndary con	secondary by Vac Tru taiment imp	resulting in an overflow of a containment. Approximatley ck from the secondary containment acted the treatemnt pad. An area was impacted.	

Page 408 of 419

Oil Conservation Division

	1 1180 100 of 1
Incident ID	nAPP2234144689
District RP	
Facility ID	
Application ID	

Was this a major	If VEC for what account \ last 1			
release as defined by	Volume of Produced Water release	nsible party consider this a major release?		
19.15.29.7(A) NMAC?	Volume of Freduced Water release	ad in secondary containment.		
☑ Yes ☐ No				
If YES, was immediate n	otice given to the OCD? By whom? To w	nom? When and by what means (phone, email, etc)?		
NMOCD Web porta	I NOR completed by Rob Kirk, an	nd emails to OCD office in Artesia.		
**				
	Initial R	esponse		
The responsible	party must undertake the following actions immediate	y unless they could create a safety hazard that would result in injury		
☑ The source of the rele	ease has been stopped.			
☑ The impacted area ha	as been secured to protect human health and	the environment.		
		likes, absorbent pads, or other containment devices.		
	ecoverable materials have been removed an			
If all the actions described	d above have <u>not</u> been undertaken, explain	why:		
Day 10 15 20 9 D (4) NIM	IAC the many and I land			
has begun, please attach	a narrative of actions to date. If remedial	emediation immediately after discovery of a release. If remediation		
has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.				
	A CONTRACTOR OF THE PARTY OF TH	best of my knowledge and understand that pursuant to OCD rules and		
regulations all operators are	required to report and/or file certain release noti	fications and perform corrective actions for releases which may endanger		
public health or the environm	nent. The acceptance of a C-141 report by the C	CD does not relieve the operator of liability should their operations have		
failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws				
and/or regulations.	the operation of	to sponsionity for compliance with any other federal, state, or local laws		
Printed Name: Rob Kirk	•	Title: VP & GM, HSE & Compliance		
rimed Name:	4000	Title: VI & OW, FISE & Compliance		
Signature:	Not the	Date: 12/7/2022		
email: rob.kirk@aris	water.com	Telephone: O 575- 300-5155 C 469-978-5620		
		Totophono.		
OCD Only				
And the second s				
Received by:		Date:		

Form C-141 Page 3

State of New Mexico Oil Conservation Division

Incident ID	nAPP2234144689
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?	37 (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 V No		
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	☐ Yes ☑ No		
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.			
Characterization Report Checklists Each of the following items must be in the Lind			

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

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

Page 4 Och: 5/21/2025 12:00:29 Mate of New Mexico
Oil Conservation Division

Page 410 of 419

Incident ID	nAPP2234144689
District RP	
Facility ID	
Application ID	

T1 1				
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.				
Printed Name: Rob Kirk	Title: VP, Environmental Compliance			
Signature:	Date: 10/13/2023			
email: rob.kirk@ariswater.com	Telephone: O 432-203-9020 C 469-978-5620			
OCD Only				
Received by: Shelly Wells	Date: 10/13/2023			

Form C-141

Page 6

State of New Mexico
Oil Conservation Division

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

Incident ID	nAPP2234144689	
District RP		
Facility ID		
Application ID		E

## 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.

✓ A scaled site and sampling diagram as described in 19.15.29.	11 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 OD6	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and replaced human health or the environment. In addition, OCD acceptance of	ntions. The responsible party acknowledges they must substantially
Printed Name: Rob Kirk	Title: VP, Environmental Compliance
Signature:	Date: 10/13/2023
email: rob.kirk@ariswater.com	Telephone: O 432-203-9020 C 469-978-5620
OCD Only	
Received by: Shelly Wells	Date: <u>10/13/2023</u>
Closure approval by the OCD does not relieve the responsible party remediate contamination that poses a threat to groundwater, surface to party of compliance with any other federal, state, or local laws and/o	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:	Date:
Printed Name:	Title:

Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116
Online Phone Directory
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# State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS

Action 465301

#### **QUESTIONS**

Operator:	OGRID:
SOLARIS WATER MIDSTREAM, LLC	371643
9651 Katy Fwy	Action Number:
Houston, TX 77024	465301
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2234144689
Incident Name	NAPP2234144689 MOBLEY SWD #001 @ 30-015-45072
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-45072] MOBLEY SWD #001

Location of Release Source	
Please answer all the questions in this group.	
Site Name	MOBLEY SWD #001
Date Release Discovered	12/06/2022
Surface Owner	Private

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Human Error   Frac Tank   Produced Water   Released: 80 BBL   Recovered: 70 BBL   Lost: 10 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	The water was captured in secondary containment, 10 BBLs escaped the secondary containment and remained on the work site pad.

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## State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 2

Action 465301

QUESTI	ONS (continued)
Operator: SOLARIS WATER MIDSTREAM, LLC 9651 Katy Fwy	OGRID: 371643 Action Number:
Houston, TX 77024	Action Number: 465301
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.
Initial Response	
The responsible party must undertake the following actions immediately unless they could create a s	afety hazard that would result in injury. T
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
	Name: Lauren Bean
I hereby agree and sign off to the above statement	Title: Senior Engineering Tech
-	Email: lauren.bean@ariswater.com Date: 05/20/2025

Sante Fe Main Office Phone: (505) 476-3441 General Information

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### **State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS, Page 3

Action 465301

#### **QUESTIONS** (continued)

OGRID: Operator: SOLARIS WATER MIDSTREAM, LLC 371643 9651 Katy Fwy Action Number: Houston, TX 77024 465301 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	30500
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	209
GRO+DRO (EPA SW-846 Method 8015M)	124
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed which includes the anticipated timelines for beginning and completing the remediation.	efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date will the remediation commence	02/17/2023
On what date will (or did) the final sampling or liner inspection occur	04/24/2025
On what date will (or was) the remediation complete(d)	07/30/2023
What is the estimated surface area (in square feet) that will be reclaimed	9450
What is the estimated volume (in cubic yards) that will be reclaimed	1820
What is the estimated surface area (in square feet) that will be remediated	9450
What is the estimated volume (in cubic yards) that will be remediated	680
These estimated dates and measurements are recognized to be the best guess or calculation at the	e time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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## State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 4

Action 465301

**QUESTIONS** (continued)

Operator:	OGRID:
SOLARIS WATER MIDSTREAM, LLC	371643
9651 Katy Fwy	Action Number:
Houston, TX 77024	465301
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
Yes	
LEA LAND LANDFILL [fEEM0112342028]	
Not answered.	
Not answered.	
Not answered.	
No	

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

Name: Lauren Bean
Title: Senior Engineering Tech
Email: lauren.bean@ariswater.com
Date: 05/20/2025

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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## State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 5

Action 465301

**QUESTIONS** (continued)

Operator:	OGRID:
SOLARIS WATER MIDSTREAM, LLC	371643
9651 Katy Fwy	Action Number:
Houston, TX 77024	465301
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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## State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 6

Action 465301

QUESTIONS (continued)

Operator:	OGRID:
SOLARIS WATER MIDSTREAM, LLC	371643
9651 Katy Fwy	Action Number:
Houston, TX 77024	465301
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	453909
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/24/2025
What was the (estimated) number of samples that were to be gathered	1
What was the sampling surface area in square feet	50

Remediation Closure Request		
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.		
Requesting a remediation closure approval with this submission	Yes	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes	
What was the total surface area (in square feet) remediated	9450	
What was the total volume (cubic yards) remediated	680	
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes	
What was the total surface area (in square feet) reclaimed	9450	
What was the total volume (in cubic yards) reclaimed	1820	
Summarize any additional remediation activities not included by answers (above)	N/A	

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 (in .pdf format) 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.

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

I hereby agree and sign off to the above statement

I hereby agree and sign off to the above statement

Title: Senior Engineering Tech
Email: lauren.bean@ariswater.com
Date: 05/20/2025

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## State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 7

Action 465301

**QUESTIONS** (continued)

Operator:	OGRID:
SOLARIS WATER MIDSTREAM, LLC	371643
9651 Katy Fwy	Action Number:
Houston, TX 77024	465301
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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## State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Action 465301

#### **CONDITIONS**

Operator:	OGRID:
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9651 Katy Fwy	Action Number:
Houston, TX 77024	465301
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### CONDITIONS

Created By		Condition Date
scott.rodgers	This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	6/10/2025