APPENDIX C

Groundwater Monitoring Report

(Content Begins on Following Page)

Groundwater Monitoring Report

Former Sunshine Food Mart #100

Playa del Sol Drive Right-of-Way at 810 Barnes Boulevard

Rockledge, Brevard County, FDEP Facility ID 05-8842416

December 26, 2024 | Terracon Project No. H1247997

Prepared for:

Florida Department of Environmental Protection Petroleum Restoration Program Team Five
Riverview, Florida

Prepared by:

Terracon Consultants, Inc.
Winter Park, Florida

Terracon

Nationwide
Terracon.com

- Facilities
- Environmental
- Geotechnical
- Materials

Terracon

1675 Lee Rd
Winter Park, FL 32789-2207
P 407-740-6110
F 407-740-6112
Terracon.com

December 26, 2024

Christian Correia
Florida Department of Environmental Protection, Petroleum Restoration Program Team Five
NorthStar Contracting Group, Inc.
2760 S. Falkenburg Road
Riverview, FL 33578

Telephone: 813.684.4400 ext. 4839
E-mail: CCorreia@NorthStar.com

Re: Groundwater Monitoring Report
Former Sunshine Food Mart #100
Playa del Sol Drive Right-of-Way at 810 Barnes Boulevard
Rockledge, Brevard County, Florida
FDEP Facility ID 05-8842416
Discharge Date: June 2, 2014 (Non-Program)
Terracon Project No. H1247997

Dear Mr. Correia:

Terracon Consultants, Inc. (Terracon) was retained by Brevard County, Florida, to complete a *Groundwater Monitoring Report* (GWMR) at a former 2,000-gallon gasoline underground storage tank (UST) within the Playa del Sol Drive right-of-way (ROW) at FDEP Facility ID 05-8842416 in Rockledge, Florida. A *Site Assessment Report* (SAR) for the site was previously submitted to the Florida Department of Environmental Protection (FDEP) and approved on October 2, 2024. The FDEP concurred with the SAR's recommendation for continued groundwater monitoring at the facility and requested submittal of this GWMR in December 2024 (**Appendix A**). The FDEP previously issued a Site Rehabilitation Completion Order (SRCO) on November 21, 2023, for contamination resulting from petroleum discharges reported in December 1993 (Non-Program) and March 1998 (Petroleum Liability & Restoration Insurance Program) at FDEP facility 05-8842416 (Sunshine Food Mart #100).

This GWMR for the former 2,000-gallon UST area, for which a SRCO has not been issued, was conducted following groundwater monitoring guidance established in Rule 62-780.600, Florida Administrative Code (FAC). If you should have any questions or comments, please contact either of the undersigned.

Sincerely,
Terracon
Derek Barry

Derek Barry, P.G.
Project Geologist

David C. Beerbower, P.G.
Principal
Florida License No. 828

cc: Tina Swanson, Brevard County Natural Resources Mgt Dept– Tina.Swanson@brevardfl.gov

TABLE OF CONTENTS

Tables

Exhibits

Appendices

1.0 SITE DESCRIPTION

The Sunshine Food Mart #100 site (Florida Department of Environmental Protection Facility ID 05-8842416) was a registered storage tank facility on the north side of Barnes Boulevard (Highway 502) at 0.48-acre Brevard County Parcel No. 25-36-21-00-27 in Rockledge, Brevard County, Florida (**Exhibit 1**). The property was occupied by a Shell gasoline station as early as 1972 and was reportedly demolished in 2014 and redeveloped with Playa Del Sol Drive.

Per MDM Services, Inc's (MDM's) *Supplemental Site Assessment Report* (*SSAR*) dated September 1, 2023, the facility previously operated two 8,000-gallon underground gasoline storage tanks (USTs) located in the eastern portion of the site. The USTs were installed in 1988. Arcadis' June 2014 *UST Closure Assessment and Interim Source Removal (ISR) Report* documents the removal of the two USTs and associated dispensers and product lines; one 2,000-gallon gasoline UST that had been previously closed in place in the northwestern corner of the property; and 208.38 tons of contaminated soil in March-April, 2014. Excavated soil was transported offsite for thermal treatment. Figure 1B in MDM's *Supplemental Site Assessment Report* (SSAR) identifies a "2014 Discharge Area" at the 2,000-gallon UST surrounded by an "Approx. Excavation Area" in the western right-of-way (ROW) of Playa Del Sol Drive.

MDM's *SSAR* stated that Arcadis' 2014 *Closure/ISR Report* recommended delineating the extent of dissolved hydrocarbon plume in the area of the former 2,000-gallon gasoline UST. The Florida Department of Environmental Protection (FDEP) approved the *SSAR* on September 22, 2023.

2.0 PRIOR ASSESSMENT

Groundwater samples were collected from five shallow monitoring wells (MW-1 through MW-5) on April 4, 2014. Analytical results from four of the five monitoring wells revealed no volatile organic aromatics (VOA) above the Groundwater Cleanup Target Levels (GCTLs) established in Chapter 62-777, Florida Administrative Code (FAC); benzene, toluene, xylene and methyl tert-butyl ether (MTBE) were reported above Florida's GCTLs at well MW-4 located in the vicinity of former 2,000-gallon UST. On April 24, 2015, groundwater samples were collected from monitoring well MW-4, four new shallow wells (MW-6 through MW-9), and one deep well (MW-10). The April 2015 analytical results revealed MTBE in excess of its GCTL of 20 micrograms per liter (µg/L) at "source" well MW-4 and at downgradient well MW-9, which was 18 feet south of MW-4. A July 2023 groundwater sampling event revealed no petroleum contaminants above their respective GCTLs at three additional shallow monitoring wells (MW-2R, MW-11 and MW-12) in the east portion of the site.

On June 14, 2014, Arcadis advanced eight soil borings (VP-1 through VP-8) in the northwest corner of the site within and bordering the former 2,000-gallon UST area for organic vapor analysis (OVA). Elevated vapors readings were not detected in any of the soil borings, as documented on Figure 7 of Arcadis' *Limited Site Assessment Report* (LSAR) dated July 1,

2024. Nonetheless, Figure 8 in the *LSAR* proposed a 40-foot x 20-foot excavation during removal of the UST.

MDM documented south-southeast shallow groundwater flow at the site. MDM's October 6, 2023, *Well Abandonment and Site Restoration Report* documents abandonment of shallow monitoring wells MW-4, MW-6, MW-7, MW-8, MW-9 and deep monitoring well MW-10 at and surrounding the former 2,000-gallon UST. Temporary well TMW-5 was previously located southeast of the former 2,000-gallon UST, approximately three feet within what is now paved Playa Del Sol Drive.

The FDEP issued a *Site Rehabilitation Completion Order* (SRCO) on November 21, 2023, for contamination resulting from petroleum discharges reported in December 1993 (Non-Program) and March 1998 (Petroleum Liability & Restoration Insurance Program) in the eastern portion of the Sunshine Food Mart #100 Facility 05-8842416. The reported 2014 discharge at the 2,000-gallon gasoline UST in the western Playa Del Sol Drive ROW was not approved for closure with No Further Action under the SRCO. Therefore, Terracon performed site assessment activities on the area of the former 2,000-gallon UST.

On September 6, 2024, Terracon personnel oversaw the installation of three shallow replacement monitoring wells (MW-4R, MW-5R, and MW-9R) within the western Playa del Sol Drive ROW. Laboratory analytical results from the subsequent September 9, 2024, groundwater sampling event revealed no petroleum constituents of concern (COCs) at concentrations above Florida's GCTLs. Monitoring well locations are depicted on **Exhibit 2**. **Exhibit 2** also portrays the historical monitoring wells at the site with respect to the replacement well locations, former tank farms, integral piping and dispensers associated with the former facility. There are currently no tank farms, integral piping or dispenser present at the site.

3.0 SCOPE OF SERVICES

The scope of work requested by Brevard County includes one additional groundwater monitoring event at the three shallow replacement monitor wells (MW-4R, MW-5R, and MW-9R) at and downgradient of the former 2,000-gallon UST within the western Playa del Sol Drive ROW.

3.1 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 does not warrant the work of laboratories, regulatory agencies, or other third parties supplying information used in the preparation of the report. These monitoring services were performed in accordance with groundwater assessment guidance in Chapter 62-780.690, FAC.

Fieldwork was conducted by environmental staff with OSHA 1910.120 training. Sampling activities were conducted in general accordance with the FDEP *Standard Operating Procedures for Field Activities*, DEP-SOP-001/01 including duplicate and equipment rinsate blank samples collected for laboratory analysis.

3.2 Groundwater Flow Determination

The well locations were surveyed to the nearest 0.01 foot by Brevard County Public Works' professional land surveyor and the tops-of-casing (TOC) were surveyed to the nearest 0.01 foot relative to the North American Vertical Datum 1988 (NAVD-88) at each well. Monitoring well construction and groundwater elevation data are provided in **Table 1**.

Static groundwater depths were measured at the three wells on December 11, 2024, prior to collection of groundwater samples. The water table was encountered at depths ranging from 3.49 to 3.67 feet below land surface (bls). The depth to water was subtracted from the TOC elevations to calculate the water table elevation at each well. Due to the close proximity of the monitoring wells to each other, the water level was relatively consistent in all three monitoring wells with a slight eastern hydraulic gradient of approximately 0.002 between monitoring wells MW-9R and MW-5R as depicted on **Exhibit 3**.

3.3 Groundwater Testing

Groundwater samples were collected on December 11, 2024, from monitoring wells MW-4R, MW-5R and MW-9R. Prior to sample collection, the monitoring wells were purged with a peristaltic pump at a low flow rate and the groundwater field parameters of temperature, pH, specific conductance, dissolved oxygen, and turbidity were monitored for equilibration prior to sample collection. The groundwater samples were collected using new high-density polyethylene (HDPE) tubing and a peristaltic pump. Groundwater Sampling Logs and equipment calibration logs for the YSI 556 MPS multi-meter and GeoTech turbidity meter are provided in **Appendix B**. The groundwater samples, along with a duplicate sample and an equipment rinsate blank were placed in laboratory prepared glassware, labelled, and placed in wet ice in a cooler.

The sample cooler and completed chain-of-custody record was directly delivered to Eurofins Orlando laboratory (NELAP certification E-83018). Samples from source area well MW-4R were analyzed for the parameters in Table B of Chapter 62-780, FAC, which are VOA and MTBE by EPA Method 8260 (also analyzed for the other volatile organic compounds measured and standardly reported by EPA Method 8260), polycyclic aromatic hydrocarbons (PAH) by EPA Method 8270, ethylene dibromide (EDB) by EPA Method 504.1, total recoverable petroleum hydrocarbons (TRPH) by the FL-PRO Method, 4 metals (arsenic, cadmium, chromium and lead) by EPA Method 6010D, chloride and sulfate by EPA Method 300.0, and total dissolved solids (TDS) by EPA Method 2540C-2015. Groundwater samples from wells MW-9R and MW-5R were analyzed for VOA and MTBE, PAH and TRPH. The duplicate sample and rinsate blank were analyzed for VOA only.

In source monitoring well MW-4R, no VOC, PAH, EDB, TRPH, metals, chloride, or sulfate were reported above Florida's GCTLs. Fluoranthene and fluorene were estimated between the laboratory's method detection limits (MDLs) and practical quantitation limits (PQLs) in monitoring well MW-4R, however concentrations remained below Florida's GCTLs. The reported 1,000 milligrams per liter (mg/L) of TDS in MW-4R exceeds Florida's GCTL of 500 mg/L, however based on the groundwater classification table from Chapter 62-520, FAC, the shallow aquifer at the site is classified as Class G-II groundwater.

The downgradient monitoring wells (MW-5R and MW-9R) reported no VOA, PAH, or TRPH above Florida's GCTLs. Parameters exceeding the MDL are listed in **Table 2**. The laboratory analytical report and chain-of-custody record are provided in **Appendix C**.

4.0 SUMMARY AND CONCLUSIONS

Terracon concludes the following for the area of the former 2,000-gallon gasoline UST in Brevard County's ROW west of Playa del Sol Drive:

- The water table was measured at a depth of approximately 3.5 feet below land surface on December 11, 2024, in the shallow surficial aquifer.
- No petroleum contaminants were reported above Florida's GCTLs at or downgradient of the former UST for a second consecutive event.

5.0 RECOMMENDATION

Based on the second consecutive event of no petroleum contaminants reported above Florida's GCTLs at or downgradient of the former UST, Terracon recommends *No Further Action* as prescribed in Paragraph 62-780.600(8)(b), FAC.

TABLES

TABLE 1: WELL CONSTRUCTION AND GROUNDWATER ELEVATION DATA

Former Sunshine Food Mart #100, Rockledge, Brevard County, Florida
FDEP Facility ID: 05-8842416

WELL NO.	MW-4R		MW-5R		MW-9R	
DIAMETER (inches)	2		2		2	
WELL DEPTH (ft bls)	12.00		12.00		12.00	
SCREEN INTERVAL (ft bls)	2 - 12		2 - 12		2 - 12	
NORTHING (ft)	1440325.924		1440319.201		1440310.338	
EASTING (ft)	740320.148		740326.629		740317.588	
TOC ELEVATION (ft)	18.75		18.92		18.77	
DATE	DTW	ELE	DTW	ELE	DTW	ELE
9/9/24	3.18	15.57	3.28	15.64	3.18	15.59
12/11/24	3.49	15.26	3.67	15.25	3.50	15.27

Notes:

1. Monitoring wells were installed on 9/6/2024 by Preferred Drilling Solutions, Inc.
2. Elevations were surveyed based on the North American vertical datum of 1988 (NAVD88) on 9/11/2024 by Brevard County Public Works.
3. ft = feet; ft bls = feet below land surface
4. TOC = top-of-casing
5. DTW = depth to water (feet below TOC)
6. ELE = elevation

TABLE 2: GROUNDWATER ANALYTICAL SUMMARY

Former Sunshine Food Mart #100, Rockledge, Brevard County, Florida

FDEP Facility ID: 05-8842416

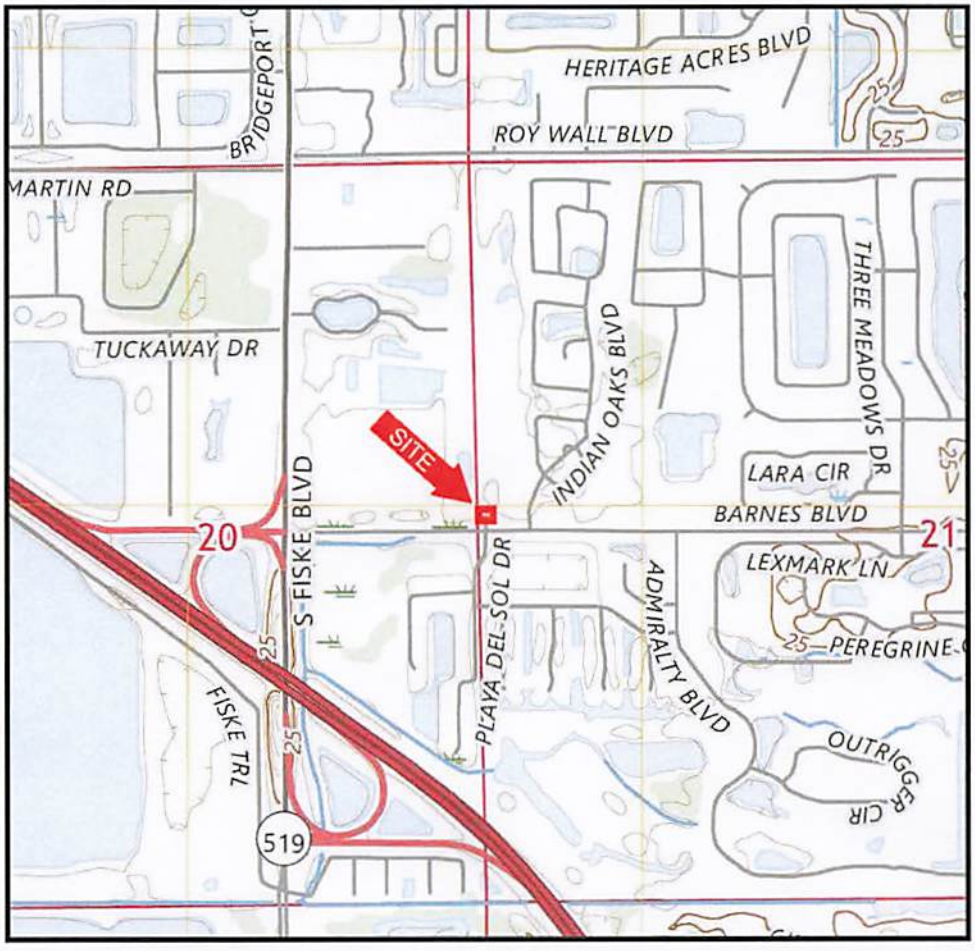
Sample Summary		Detected Parameters (All values reported in µg/L)				
Well ID	**Sample Date**	**Acenaphthene**	**Chloride**	**MTBE**	**Sulfate**	**Total Dissolved Solids (TDS)**
GCTL (µg/L)		**20**	**250,000**	**20**	**250,000**	**500,000**
MW-4R	9/9/2024	0.034 I	61,000	0.60 U	58,000	**880,000**
	12/11/2024	0.028 U	68,000	0.60 U	190,000	**1,000,000**
MW-5R	9/9/2024	0.028 U	NA	0.73 I	NA	NA
	12/11/2024	0.028 U	NA	0.60 U	NA	NA
MW-9R	9/9/2024	0.028 U	NA	0.98 I	NA	NA
	12/11/2024	0.028 U	NA	0.60 U	NA	NA

Notes:

1. µg/L = Micrograms per liter
2. FAC = Florida Administrative Code
3. GCTLs = Groundwater Cleanup Target Levels specified in Table I of Chapter 62-777, FAC
4. MW = Monitoring Well
5. MTBE = Methyl tert-butyl ether
6. U = Analyte not detected above the laboratory method detection limit (LMDL)
7. I = Result is between the LMDL and practical quantitation limit (PQL)
8. NA = Not Analyzed
9. **Bolded text** = Concentration is above the GCTL

EXHIBITS

UNITED STATES – DEPARTMENT OF THE INTERIOR – GEOLOGICAL SURVEY



SCALE 1"=1000'

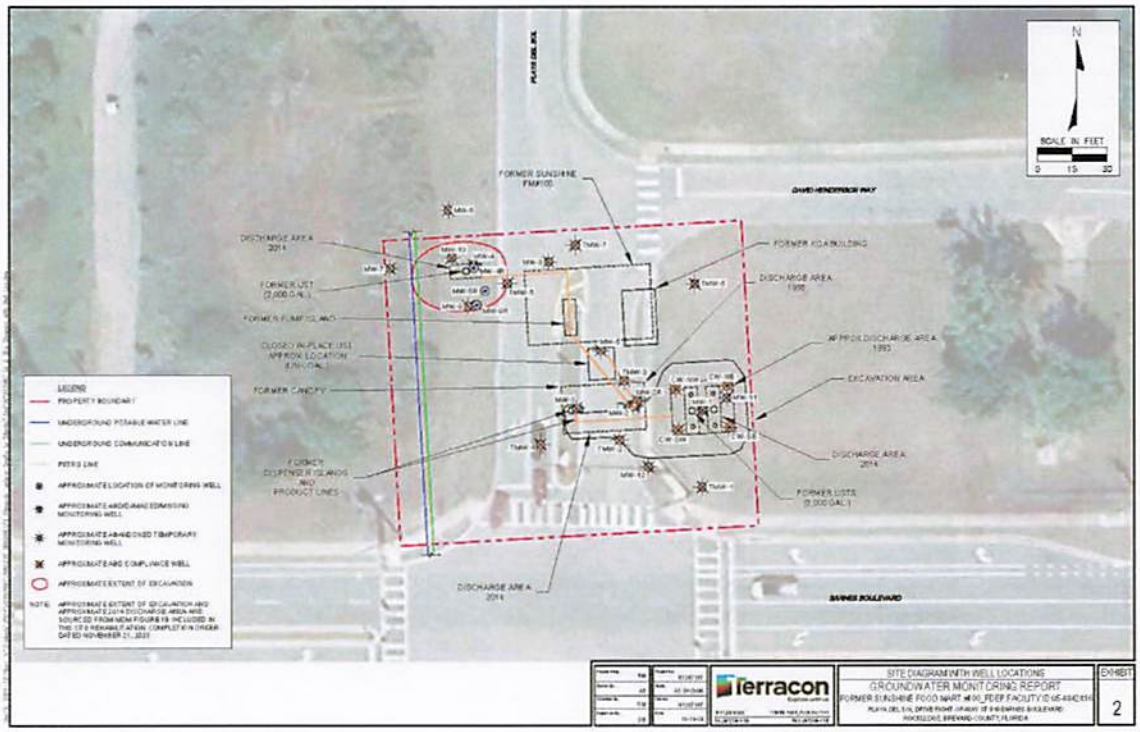
FEET

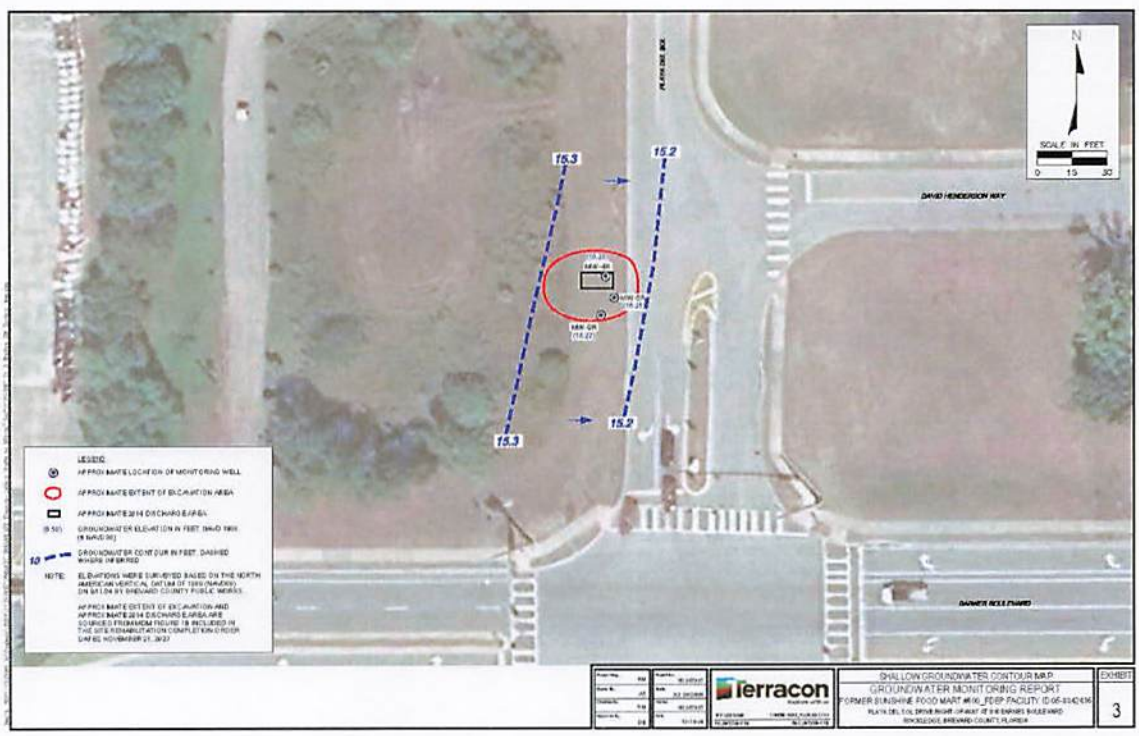
500 0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000

COCOA, FLORIDA
ISSUED: 2024
7.5 MINUTE SERIES (QUADRANGLE)

N

Project Mngr: RM Drawn By: AS Checked By: RM Approved By: DB	Project No. H1247997 Scale: AS SHOWN File No. H1247997 Date: 12-13-24	Terracon Explore with us 1575 LEE ROAD WINTER PARK, FLORIDA 32789 PH: (407) 740-6110 FAX: (407) 740-6112	TOPOGRAPHIC VICINITY MAP GROUNDWATER MONITORING REPORT FORMER SUNSHINE FOOD MART #100_FDEP FACILITY ID 05-8842416 PLAYA DEL SOL DRIVE RIGHT-OF-WAY AT 810 BARNES BOULEVARD ROCKLEDGE, BREVARD COUNTY, FLORIDA	EXHIBIT 1


N
SCALE IN FEET
0 15 30
PLATA DEL SOL
DAVID HENDERSON WAY
DARNER BOULEVARD
FORMER SUNSHINE FM#100
FORMER KOA BUILDING
DISCHARGE AREA 2014
FORMER UST (2,000 GAL)
FORMER PUMP ISLAND
CLOSED-IN-PLACE UST APPROX LOCATION (UNKNOWN)
FORMER CANOPY
FORMER DISPENSER ISLANDS AND PRODUCT LINES
DISCHARGE AREA 1998
APPROX DISCHARGE AREA 1993
EXCAVATION AREA
DISCHARGE AREA 2014
FORMER USTS (2,000 GAL)
DISCHARGE AREA 2014
LEGEND
PROPERTY BOUNDARY
UNDERGROUND POTABLE WATER LINE
UNDERGROUND COMMUNICATION LINE
PIPING LINE
APPROXIMATE LOCATION OF MONITORING WELL
APPROXIMATE ABANDONED/REMOVED MONITORING WELL
APPROXIMATE ABANDONED TEMPORARY MONITORING WELL
APPROXIMATE MW COMPLIANCE WELL
APPROXIMATE EXTENT OF EXCAVATION
NOTE: APPROXIMATE EXTENT OF EXCAVATION AND APPROXIMATE 2014 DISCHARGE AREA ARE SOURCED FROM MDM FIGURE 1B INCLUDED IN THE SITE REHABILITATION COMPLETION ORDER DATED NOVEMBER 21, 2017
Terracon
SITE DIAGRAM WITH WELL LOCATIONS
GROUNDWATER MONITORING REPORT
FORMER SUNSHINE FOOD MART #696 (FDEP FACILITY ID 05-8342434)
PLATA DEL SOL DRIVE RIGHT (FAR) AT 918 DARNER BOULEVARD
ROCKLEDGE, BREVARD COUNTY, FLORIDA
EXHIBIT 2


N
SCALE IN FEET
0 15 30
PLATA DEL SOL
DAVID HENDERSON WAY
DARNER BOULEVARD
15.3
15.2
15.3
15.2
MW-6R (14.27)
LEGEND
APPROXIMATE LOCATION OF MONITORING WELL
APPROXIMATE EXTENT OF EXCAVATION AREA
APPROXIMATE 2014 DISCHARGE AREA
(9.50) GROUNDWATER ELEVATION IN FEET, (NAVD 1988 (NAVD 88))
10 GROUNDWATER CONTOUR IN FEET, DASHED WHERE INFERRED
NOTE: ELEVATIONS WERE SURVEYED BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) ON 9/11/24 BY BREVARD COUNTY PUBLIC WORKS.
APPROXIMATE EXTENT OF EXCAVATION AND APPROXIMATE 2014 DISCHARGE AREA ARE SOURCED FROM MDM FIGURE 1B INCLUDED IN THE SITE REHABILITATION COMPLETION ORDER DATED NOVEMBER 21, 2017
Terracon
SHALLOW GROUNDWATER CONTOUR MAP
GROUNDWATER MONITORING REPORT
FORMER SUNSHINE FOOD MART #696 (FDEP FACILITY ID 05-8342434)
PLATA DEL SOL DRIVE RIGHT (FAR) AT 918 DARNER BOULEVARD
ROCKLEDGE, BREVARD COUNTY, FLORIDA
EXHIBIT 3

APPENDIX A

FDEP Approval Letter of Site Assessment

Report

FLORIDA DEPARTMENT OF
Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

October 2, 2024

(Sent via email only to addressee at David.Beerbower@terracon.com)

Mr. David C. Beerbower, P. G.
Terracon
1675 Lee Road
Winter Park, Florida 32789

Subject: Deliverable Approval
SUNSHINE FOOD MART #100
810 Barnes Blvd
Rockledge, Brevard County
FDEP Facility ID: 058842416
Discharge Date: June 2, 2014 (Non-Program)
Priority Score: 12

Dear Mr. Beerbower:

The Petroleum Restoration Program (PRP) has reviewed the Site Assessment Report, dated and received September 24, 2024, submitted for this facility. The deliverable is acceptable and the work is complete, but the following item must be addressed in the next submittal:

- Please include a figure with all previous well locations in reference to the replacement well locations, and also include current and former tank farms, integral piping, and dispensers associated with the facility.

The PRP concurs with your recommendation to continue monitoring activities at the subject facility. If you should have any questions about the review, please contact me at (813) 684-4400, extension 4839, by email at ccorreia@northstar.com, or at the letterhead address, Mail Station 4585.

Sincerely,

Christian Correia Digitally signed by Christian Correia Date: 2024.10.01 11:21:18 -04'00'

Christian Correia
Staff Scientist
NorthStar Contracting Group, Inc.
Petroleum Restoration Program Section Five
ccorreia@northstar.com

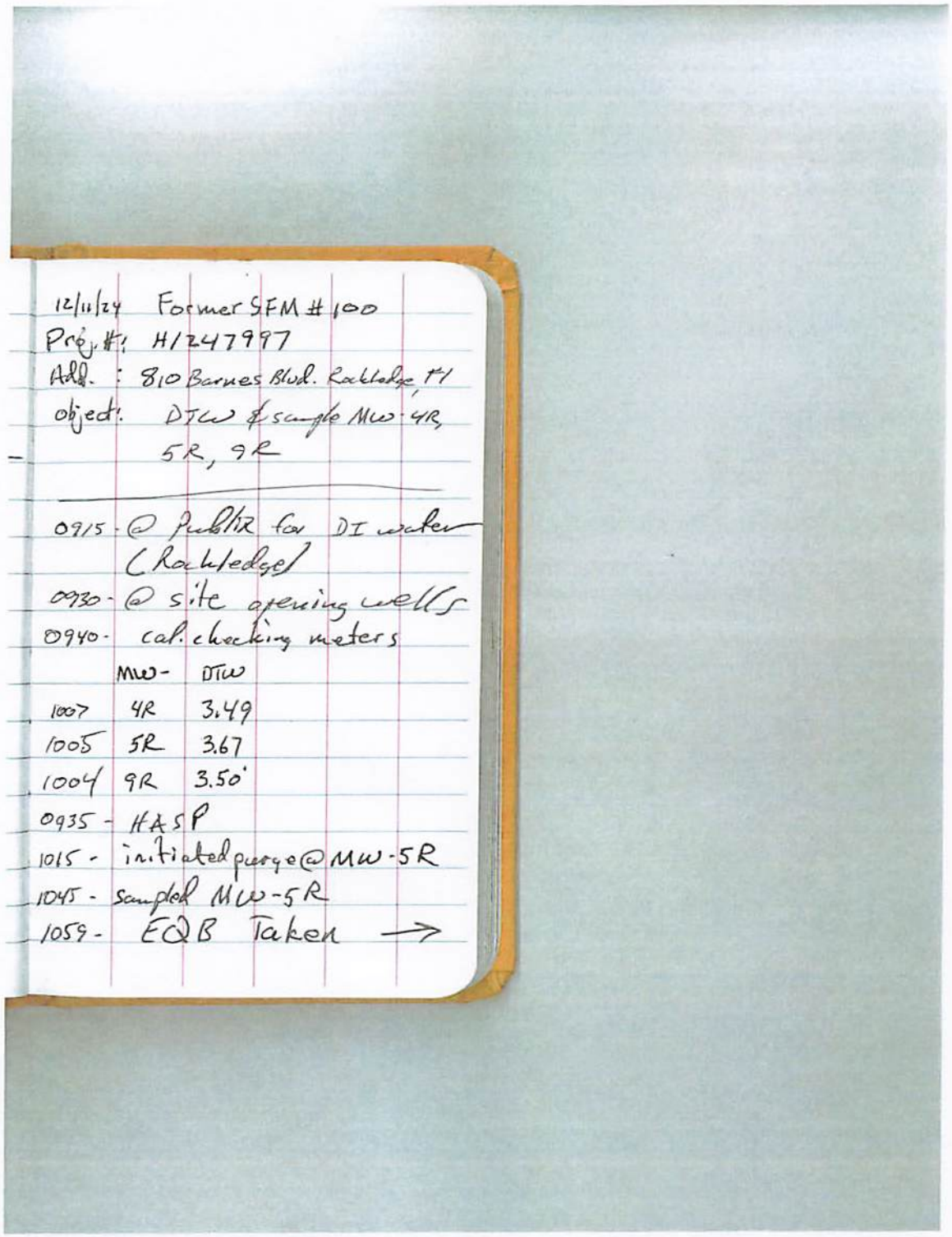
/cc

ec: Doug Divers, doug.divers@brevardfl.gov

File

APPENDIX B

Groundwater Sampling Logs and Equipment Calibration Records

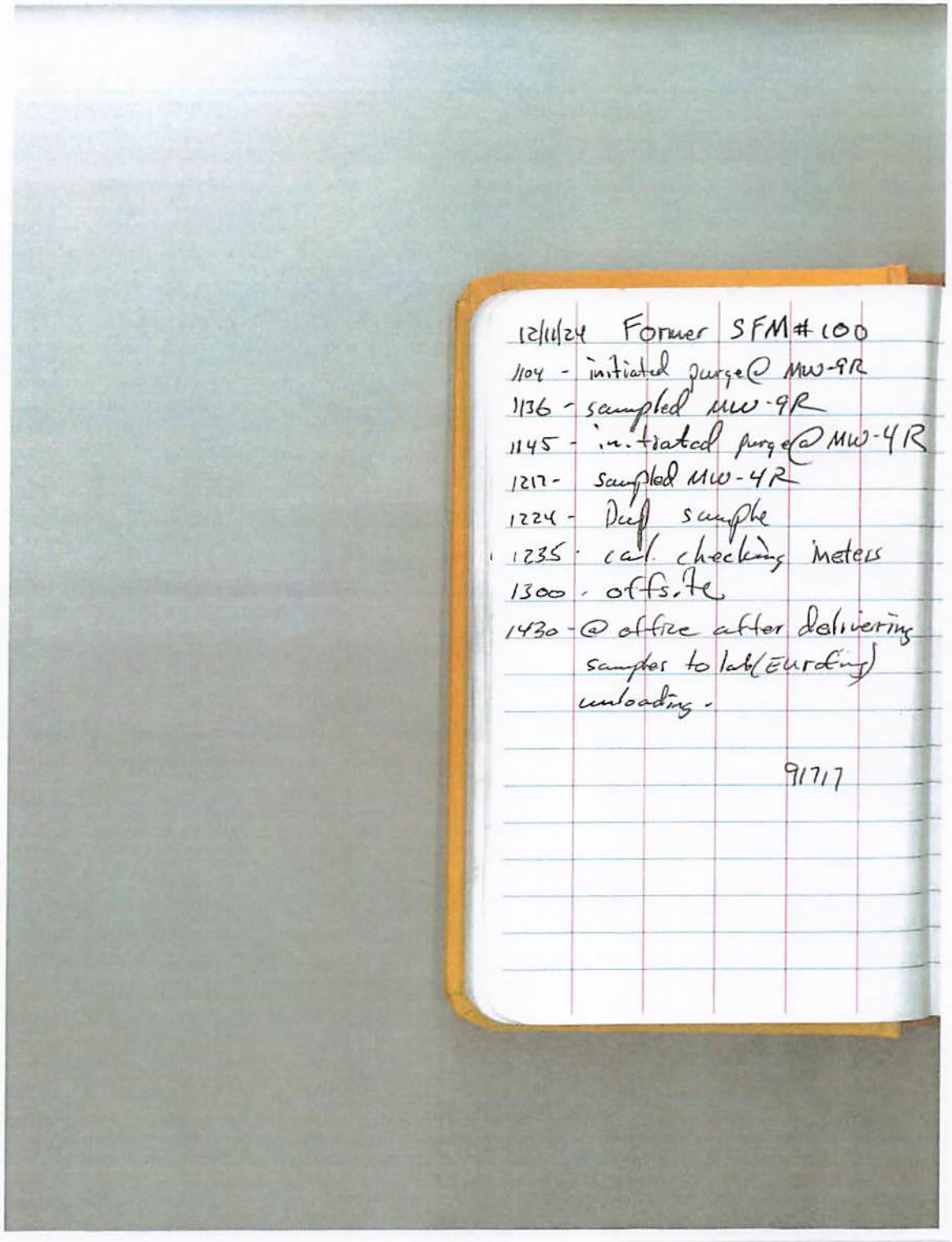


12/11/24 Former SFM #100
Proj. #: H1247997
Add. : 810 Barnes Blvd. Rockledge, FL
object: DTW & sample MW-4R, 5R, 9R

0915 - @ Public for DI water (Rockledge)
0930 - @ site opening wells
0940 - cal. checking meters

	MW-	DTW
1007	4R	3.49
1005	5R	3.67
1004	9R	3.50'

0935 - HASP
1015 - initiated purge @ MW-5R
1045 - sampled MW-5R
1059 - EQB Taken →



12/11/24 Former SFM #100
1104 - initiated purge @ MW-9R
1136 - sampled MW-9R
1145 - initiated purge @ MW-4R
1217 - sampled MW-4R
1224 - Dup sample
1235 - cal. checking meters
1300 - off site
1430 - @ office after delivering samples to lab (Eurofins) unloading.

91717

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former SFM #100	SITE LOCATION: Rockledge, FL	PROJECT NO.: H1247997
WELL NO: MW-4R	SAMPLE ID: MW-4R	DATE: 12/11/24

PURGING DATA

WELL DIAMETER (inches): 2" | TUBING DIAMETER: 3/16" | WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet | STATIC DEPTH TO WATER (feet): 3.49 | PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (12 feet - 3.49 feet) x 0.16 gallons/foot = 1.36 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME

(only fill out if applicable) N/A = gallons + (gallons/foot X feet) + gallons = gallons

NOTE: YSI 556MPS flow cell volume = 500 mL = 0.13 gallons (1 gallon = 3,785 mL)

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8	PURGING INITIATED AT: 1145	PURGING ENDED AT: 1216	TOTAL VOLUME PURGED (gallons): 1.86

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) mS/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1210	1.5	1.5	.06	4.36	6.36	23.26	1615	0.49/5.8	1.38	clear	sulfur
1213	.18	1.68	.06	4.4	6.36	23.30	1605	0.49/5.7	0.99	clear	sulfur
1216	.18	1.86	.06	4.47	6.35	23.32	1594	0.48/5.7	0.99	clear	sulfur

WELL CAPACITY (Gallons Per Foot): 1/2" = 0.010; 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Pat Beers /Terracon	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1217	SAMPLING ENDED AT: 1223
PUMP OR TUBING DEPTH IN WELL (feet): 8	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) FILTER SIZE: ___ µm	Filtration Equipment Type:

FIELD DECONTAMINATION: PUMP (Y) N TUBING Y (N) (replaced) OTHER (specify) Y (N) DUPLICATE: (Y) N DUP. ID: X PB

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION						
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED*	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-4R	1	HDPE	250 ml	None	—	LP	2540C_Calcd TDS	APP	~227
MW-4R	2	AG	60 ml	None	—	LP	8270E_SIM PAHs	APP	
MW-4R	1	HDPE	250 ml	HNO3	—	LP	6010D RCRA 4 ICP Metals	APP	
MW-4R	3	CG	40 ml	HCL	—	LP	8260D Full List (Includes MTBE)	APP	
MW-4R	2	CG	40 ml	HCL	—	LP	8011 EDB	APP	
MW-4R	2	CG	60 ml	HCL	—	LP	FL_PRO TPHs	APP	
MW-4R	1	HDPE	125 ml	None	—	LP	300_ORGFM_28D Chloride & Sulfate	APP	

5 WELL VOLUMES. REMARKS: (1) = Decon W.L. indicator / Dup. X PB taken here @ 1224

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; WM = Water Level Meter

EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify); LP = Lab Preserved

NOTES:
1 The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2 Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)
3 Standard decontamination procedures includes DI water rinse, Liquinox solution wash, DI water rinse, isopropanol, DI water final rinse, & air dry.
4 1 gpm = 3,785.4 mL/min

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former SFM #100	SITE LOCATION: Rockledge, FL	PROJECT NO.: H1247997
WELL NO: MW-5R	SAMPLE ID: MW-5R	DATE: 12/11/24

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER: 3/16"	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 3.67	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) PB

= (12 feet – 3.67 feet) X 0.16 gallons/foot = 1.33 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) NOTE: YSI 556MPS flow cell volume = 500 mL = 0.13 gallons (1 gallon = 3,785 mL)

N/A = gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8	PURGING INITIATED AT: 1015	PURGING ENDED AT: 1044	TOTAL VOLUME PURGED (gallons): 1.86

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1040	1.5	1.5	.06	4.73	6.59	23.57	1089	0.71/8.1	2.72	clear	no
1043	.18	1.68	.06	4.81	6.58	23.61	1092	0.65/7.7	2.13	clear	no
1044	.18	1.86	.06	4.96	6.58	23.59	1092	0.64/7.6	2.03	clear	no

WELL CAPACITY (Gallons Per Foot): 1/2" = 0.010; 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Pat Beers /Terracon	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1045	SAMPLING ENDED AT: 1047

PUMP OR TUBING DEPTH IN WELL (feet): 8	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) FILTER SIZE: ___ µm Filtration Equipment Type:
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N) (replaced)	OTHER (specify) Y (N) DUPLICATE: Y (N) DUP. ID:

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED*	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-5R	2	AG	60 ml	None	—	LP	8270C_SIM PAHs	APP	~ 227
MW-5R	2	CG	60 ml	HCL	—	LP	FL_PRO TPHs	APP	↓
MW-5R	3	CG	40 ml	HCL	—	LP	8260D Aram (BTEX, MTBE)	APP	

5 WELL VOLUMES: REMARKS: ① = Pecon W.L. indicator

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; WM = Water Level Meter
EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify); LP = Lab Preserved

NOTES: 1 The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2 Stabilization Criteria for ranges of variation of last three consecutive readings (see FS 2212, section 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)
3 Standard decontamination procedures includes DI water rinse, Liquinox solution wash, DI water rinse, isopropanol, DI water final rinse, & air dry
4 1 gpm = 3,785.4 mL/min

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: Former SFM #100	SITE LOCATION: Rockledge, FL	PROJECT NO.: H1247997
WELL NO: MW-9R	SAMPLE ID: MW-9R	DATE: 12/11/24

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER: 3/16"	WELL SCREEN INTERVAL DEPTH: 2 feet to 12 feet	STATIC DEPTH TO WATER (feet): 3.50	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)
= (12 feet − 3.50 feet) x 0.16 gallons/foot = 1.36 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) N/A = gallons + (gallons/foot X feet) + gallons = gallons
NOTE: YSI 556MPS flow cell volume = 600 mL = 0.13 gallons (1 gallon = 3,785 mL)

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 8	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8	PURGING INITIATED AT: 1104	PURGING ENDED AT: 1135	TOTAL VOLUME PURGED (gallons): 1.86

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN (circle) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1129	1.5	1.5	.06	4.35	6.52	23.31	2531	0.82/9.7	5.71	clear	no
1132	.18	1.68	.06	4.38	6.53	23.54	2523	0.77/9.1	4.35	clear	no
1135	.18	1.86	.06	4.42	6.53	23.68	2528	0.73/8.7	3.32	clear	no

WELL CAPACITY (Gallons Per Foot): 1/2" = 0.010; 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./FL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Pat Beers /Terracon	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1136	SAMPLING ENDED AT: 1135 PB
PUMP OR TUBING DEPTH IN WELL (feet): 8	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) FILTER SIZE: ___ µm	
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N) (Replaced)	OTHER (specify) Y N	DUPLICATE: Y (N) DUP. ID:

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED*	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-9R	2	AG	60 ml	None	—	LP	8270E_SIM PAHs	APP	~227
MW-9R	2	CG	60 ml	HCL	—	LP	FL_PRO TPHs	APP	↓
MW-9R	3	CG	40 ml	HCL	—	LP	8260D Arom (BTEX, MTBE)	APP	↓

5 WELL VOLUMES: REMARKS: D- Decon w.c indicator

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; WM = Water Level Meter
EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify); LP = Lab Preserved

NOTES: 1 The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2 Stabilization Criteria (for range of variation of last three consecutive readings) (see FS 2212, section 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)
3 Standard decontamination procedures includes DI water rinse, Liquinox solution wash, DI water rinse, isopropanol, DI water final rinse, & air dry.
4 1 gpm = 3,785.4 mL/min

Revision Date: February 12, 2009

FIELD INSTRUMENT CALIBRATION RECORDS

Project Site/FacID: Former SFM #100

Calibrated by (Print)/Affiliation: Pat Beers Terracon

Boldly "X" this box if there is geolight data on this page.

Temperature (Quarterly) Date of Last Temp Verification: See log book:

DISSOLVED OXYGEN (DO) (REFERENCE: DEP SOP FT 1500) Acceptance Criteria +/-0.3 mg DO/L

Meter/Instrument Name and Unique ID: YSI #1

		Initials	Date	Time	Standard (DO %)	Temp °C	Saturation mg/L (100%)	Response DO (%)	Response mg DO/L	Deviation mg DO/L	Pass or Fail
CAL (ICV) CCV		PB	12/11/24	0742	100%	21.4	8.84	102.1	9.02	.18	(P) F
CAL ICV (CCV)		PB	12/11/24	1236	100%	24.2	8.38	100.3	8.42	.04	(P) F
CAL ICV CCV					100%						P F
CAL ICV CCV					100%						P F
CAL ICV CCV					100%						P F
CAL ICV CCV					100%						P F

See Table FT 1500-1 and/or Table FS 2200-2 for Dissolved Oxygen Saturation corresponding to Temperature.

SPECIFIC CONDUCTANCE (REFERENCE: DEP SOP FT 1200) Acceptance Criteria +/-5% the standard

Meter/Instrument Name and Unique ID: YSI #1

		Initials	Date	Time	Standard (µmho/cm)	Exp. Date	Lot #	Response	Deviation (%)	Pass or Fail
CAL (ICV) CCV		PB	12/11/24	0743	1413	5/25	46E1348	1395	1.98	(P) F
CAL ICV (CCV)		PB	12/11/24	1237	1413	5/25	46E1348	1374	2.7	(P) F
CAL ICV CCV										P F
CAL ICV CCV										P F
CAL ICV CCV										P F
CAL ICV CCV										P F
CAL ICV CCV										P F
CAL ICV CCV										P F
CAL ICV CCV										P F

OXIDATION-REDUCTION POTENTIAL (ORP) Acceptance Criteria +/-10 mV

REFERENCE: *EPA Region 4, Operating Procedure, Field Measurement of Oxidation-Reduction Potential (ORP)*

Meter/Instrument Name and Unique ID:

		Initials	Date	Time	Standard (mV)	Exp. Date	Lot #	Response (mV)	Deviation	Pass or Fail
CAL ICV CCV										P F
CAL ICV CCV										P F
CAL ICV CCV										P F
CAL ICV CCV										P F
CAL ICV CCV										P F
CAL ICV CCV										P F

Perform ICVs and CCVs only in "READ/RUN" mode.

CAL - Calibration; ICV - Initial Calibration Verification; and, CCV - Continuing Calibration Verification.

FIELD INSTRUMENT CALIBRATION RECORDS - EXAMPLE CALIBRATION LOG - PRP

Project Site/FacID: Former SFM #100

Calibrated by (Print)/Affiliation: Just Beers Terracon

Boldly "X" this box if there is qualified data on this page.

TURBIDITY (REFERENCE: DEP SOP FT 1600) Meter/Instrument Name and Unique ID: Hach 1

Std=0.1-10 NTU +/-10% Std=11-40 NTU +/-8% Std=41-100 NTU +/-6.5% Std>100 NTU +/-5%

	Initials	Date	Time	Standard (NTU)	Exp. Date	Lot #	Response (NTU)	Deviation (%)	Pass or Fail
CAL (ICV) CCV	PB	12/11/24	0958	2.0	12/25	A4269	2.01	0.5	P F
CAL ICV (CCV)			0959	100	12/25	A4270	99.5	0.5	P F
CAL ICV (CCV)			1000	800	12/25	A4270	822	2.75	P F
CAL ICV (CCV)			1245	2.0		A4269	19.5	2.5	P F
CAL ICV (CCV)			1246	100		A4270	98.7	1.3	P F
CAL ICV (CCV)			1247	800		A4270	790	1.25	P F
CAL ICV CCV									P F
CAL ICV CCV									P F
CAL ICV CCV									P F
CAL ICV CCV									P F
CAL ICV CCV									P F
CAL ICV CCV									P F
CAL ICV CCV									P F
CAL ICV CCV									P F
CAL ICV CCV									P F

pH (REFERENCE: DEP SOP FT 1100) Acceptance Criteria +/-0.2 SU

Meter/Instrument Name and Unique ID: YSI #1

	Initials	Date	Time	Standard (SU)	Exp. Date	Lot #	Response (SU)	Deviation (SU)	Pass or Fail
(CAL) ICV CCV	PB	12/11/24	0958	7.0	1/26	46A1175	7.0	0	P F
CAL (ICV) CCV			0950	7.0	1/26	46A1179	6.99	.01	P F
(CAL) ICV CCV			0951	4.0	5/26	46E1065	4.0	0	P F
CAL (ICV) CCV			0953	4.0	5/26	46E1065	3.95	.01	P F
CAL (ICV) CCV			0955	10.0	6/25	36F0563	10.15	.15	P F
CAL ICV (CCV)			1238	7.0	1/26	46A1179	7.09	.09	P F
CAL ICV (CCV)			1240	4.0	5/26	46E1065	4.12	.12	P F
CAL ICV (CCV)			1242	10.0	6/25	36F0565	10.15	.15	P F
CAL ICV CCV									P F
CAL ICV CCV									P F
CAL ICV CCV									P F
CAL ICV CCV									P F
CAL ICV CCV									P F
CAL ICV CCV									P F
CAL ICV CCV									P F

Perform ICVs and CCVs only in "READ/RUN" mode.

CAL - Calibration; ICV - Initial Calibration Verification; and, CCV - Continuing Calibration Verification.

APPENDIX C

Eurofins Analytical Report and Chain-of-Custody Record

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: David Beerbower
Terracon Consulting Eng & Scientists
1675 Lee Road
Winter Park, Florida 32789
Generated 12/18/2024 2:29:58 PM

JOB DESCRIPTION

Brevard County Parcel 102

JOB NUMBER

670-53097-1

Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs FL 32701

See page two for job notes and contact information.

my EOL

Eurofins Orlando

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 Southeast, LLC Project Manager.

Authorization

Generated
12/18/2024 2:29:58 PM

Authorized for release by
Kaitlin Dylnicki, Project Manager
kaitlin.dylnicki@et.eurofinsus.com
(407)339-5984

Table of Contents

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: Brevard County Parcel 102

Job ID: 670-53097-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Indicates that the compound was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Indicates that the compound was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates that the compound 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

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: Brevard County Parcel 102

Job ID: 670-53097-1

Glossary (Continued)

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

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project: Brevard County Parcel 102

Job ID: 670-53097-1

Job ID: 670-53097-1 **Eurofins Orlando**

Job Narrative
670-53097-1

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 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 samples were received on 12/11/2024 4:18 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 10.3°C.

GC/MS VOA
Method 8260D: The continuing calibration verification (CCV) associated with batch 670-127377 recovered above the upper control limit for 1,1,1-Trichloroethane, 4-Isopropyltoluene, Carbon tetrachloride, Hexachlorobutadiene, sec-Butylbenzene and Trichloroethene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 670-127377/3).

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

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

GC Semi VOA
Method 8011: Surrogate recovery for the following sample was outside the upper control limit: (CCV 670-126753/29-A). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

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

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

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

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

Detection Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Brevard County Parcel 102

Job ID: 670-53097-1

Client Sample ID: MW-4R — Lab Sample ID: 670-53097-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.044	I	0.18	0.039	ug/L	1		8270E SIM	Total/NA
Fluorene	0.045	I	0.18	0.041	ug/L	1		8270E SIM	Total/NA
Chloride	68		2.0	1.0	mg/L	5		300.0	Total/NA
Sulfate	190		5.0	2.5	mg/L	5		300.0	Total/NA
Total Dissolved Solids	1000		5.0	5.0	mg/L	1		2540C - 2015	Total/NA

Client Sample ID: MW-5R — Lab Sample ID: 670-53097-2

No Detections.

Client Sample ID: MW-9R — Lab Sample ID: 670-53097-3

No Detections.

Client Sample ID: DUP — Lab Sample ID: 670-53097-4

No Detections.

Client Sample ID: EQP — Lab Sample ID: 670-53097-5

No Detections.

Client Sample ID: TRIP BLANK — Lab Sample ID: 670-53097-6

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Brevard County Parcel 102

Job ID: 670-53097-1

Client Sample ID: MW-4R
Date Collected: 12/11/24 12:17
Date Received: 12/11/24 16:18

Lab Sample ID: 670-53097-1
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.61	U	1.0	0.61	ug/L			12/18/24 03:28	1
1,1,1-Trichloroethane	0.80	U	1.0	0.80	ug/L			12/18/24 03:28	1
1,1,2,2-Tetrachloroethane	0.54	U	1.0	0.54	ug/L			12/18/24 03:28	1
1,1,2-Trichloroethane	0.76	U	2.0	0.76	ug/L			12/18/24 03:28	1
1,1-Dichloroethane	0.62	U	1.0	0.62	ug/L			12/18/24 03:28	1
1,1-Dichloroethene	0.94	U	1.0	0.94	ug/L			12/18/24 03:28	1
1,1-Dichloropropene	0.74	U	1.0	0.74	ug/L			12/18/24 03:28	1
1,2,3-Trichlorobenzene	0.86	U	2.0	0.86	ug/L			12/18/24 03:28	1
1,2,3-Trichloropropane	0.64	U	2.0	0.64	ug/L			12/18/24 03:28	1
1,2,4-Trichlorobenzene	0.70	U	2.0	0.70	ug/L			12/18/24 03:28	1
1,2,4-Trimethylbenzene	0.69	U	2.0	0.69	ug/L			12/18/24 03:28	1
1,2-Dibromo-3-Chloropropane	0.96	U	10	0.96	ug/L			12/18/24 03:28	1
1,2-Dichlorobenzene	0.73	U	1.0	0.73	ug/L			12/18/24 03:28	1
1,2-Dichloroethane	0.63	U	1.0	0.63	ug/L			12/18/24 03:28	1
1,2-Dichloropropane	0.80	U	1.0	0.80	ug/L			12/18/24 03:28	1
1,3,5-Trimethylbenzene	0.58	U	2.0	0.58	ug/L			12/18/24 03:28	1
1,3-Dichlorobenzene	0.77	U	1.0	0.77	ug/L			12/18/24 03:28	1
1,3-Dichloropropane	0.60	U	1.0	0.60	ug/L			12/18/24 03:28	1
1,4-Dichlorobenzene	0.76	U	1.0	0.76	ug/L			12/18/24 03:28	1
2,2-Dichloropropane	0.66	U	5.0	0.66	ug/L			12/18/24 03:28	1
2-Butanone (MEK)	4.5	U	10	4.5	ug/L			12/18/24 03:28	1
2-Chlorotoluene	0.68	U	1.0	0.68	ug/L			12/18/24 03:28	1
2-Hexanone	2.5	U	20	2.5	ug/L			12/18/24 03:28	1
4-Chlorotoluene	0.65	U	2.0	0.65	ug/L			12/18/24 03:28	1
4-Isopropyltoluene	0.80	U	2.0	0.80	ug/L			12/18/24 03:28	1
4-Methyl-2-pentanone (MIBK)	5.0	U	20	5.0	ug/L			12/18/24 03:28	1
Acetone	25	U	50	25	ug/L			12/18/24 03:28	1
Benzene	0.71	U	1.0	0.71	ug/L			12/18/24 03:28	1
Bromobenzene	0.77	U	1.0	0.77	ug/L			12/18/24 03:28	1
Bromoform	0.75	U	1.0	0.75	ug/L			12/18/24 03:28	1
Bromomethane	0.95	U	2.0	0.95	ug/L			12/18/24 03:28	1
Carbon disulfide	2.5	U	5.0	2.5	ug/L			12/18/24 03:28	1
Carbon tetrachloride	0.94	U	1.0	0.94	ug/L			12/18/24 03:28	1
Chlorobenzene	0.72	U	1.0	0.72	ug/L			12/18/24 03:28	1
Chlorobromomethane	0.94	U	2.0	0.94	ug/L			12/18/24 03:28	1
Chlorodibromomethane	0.50	U	1.0	0.50	ug/L			12/18/24 03:28	1
Chloroethane	0.98	U	2.0	0.98	ug/L			12/18/24 03:28	1
Chloroform	0.80	U	5.0	0.80	ug/L			12/18/24 03:28	1
cis-1,2-Dichloroethene	0.53	U	1.0	0.53	ug/L			12/18/24 03:28	1
cis-1,3-Dichloropropene	0.59	U	1.0	0.59	ug/L			12/18/24 03:28	1
Dibromomethane	0.84	U	1.0	0.84	ug/L			12/18/24 03:28	1
Dichlorobromomethane	0.52	U	1.0	0.52	ug/L			12/18/24 03:28	1
Dichlorodifluoromethane	0.74	U	1.0	0.74	ug/L			12/18/24 03:28	1
Ethylbenzene	0.69	U	1.0	0.69	ug/L			12/18/24 03:28	1
Ethylene Dibromide	0.78	U	12	0.78	ug/L			12/18/24 03:28	1
Hexachlorobutadiene	0.70	U	1.0	0.70	ug/L			12/18/24 03:28	1
Isopropylbenzene	0.67	U	1.0	0.67	ug/L			12/18/24 03:28	1
Methyl tert-butyl ether	0.60	U	2.0	0.60	ug/L			12/18/24 03:28	1
Methylene Chloride	5.0	U	10	5.0	ug/L			12/18/24 03:28	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Brevard County Parcel 102

Job ID: 670-53097-1

Client Sample ID: MW-4R
Date Collected: 12/11/24 12:17
Date Received: 12/11/24 16:18

Lab Sample ID: 670-53097-1
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	1.3	U	2.0	1.3	ug/L			12/18/24 03:28	1
Naphthalene	0.82	U	2.0	0.82	ug/L			12/18/24 03:28	1
n-Butylbenzene	0.70	U	1.0	0.70	ug/L			12/18/24 03:28	1
N-Propylbenzene	0.50	U	1.0	0.50	ug/L			12/18/24 03:28	1
o-Xylene	0.53	U	1.0	0.53	ug/L			12/18/24 03:28	1
sec-Butylbenzene	0.74	U	2.0	0.74	ug/L			12/18/24 03:28	1
Styrene	0.61	U	1.0	0.61	ug/L			12/18/24 03:28	1
tert-Butylbenzene	0.64	U	2.0	0.64	ug/L			12/18/24 03:28	1
Tetrachloroethene	0.76	U	1.0	0.76	ug/L			12/18/24 03:28	1
Toluene	0.72	U	1.0	0.72	ug/L			12/18/24 03:28	1
trans-1,2-Dichloroethene	0.73	U	1.0	0.73	ug/L			12/18/24 03:28	1
trans-1,3-Dichloropropene	0.73	U	1.0	0.73	ug/L			12/18/24 03:28	1
Trichloroethene	0.89	U	1.0	0.89	ug/L			12/18/24 03:28	1
Trichlorofluoromethane	0.94	U	1.0	0.94	ug/L			12/18/24 03:28	1
Vinyl chloride	0.71	U	1.0	0.71	ug/L			12/18/24 03:28	1
Xylenes, Total	1.3	U	2.0	1.3	ug/L			12/18/24 03:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*40 - 146*		*12/18/24 03:28*	*1*
4-Bromofluorobenzene (Surr)	*104*		*41 - 142*		*12/18/24 03:28*	*1*
Dibromofluoromethane (Surr)	*109*		*53 - 146*		*12/18/24 03:28*	*1*

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	0.032	U	0.18	0.032	ug/L		12/12/24 17:44	12/13/24 11:41	1
2-Methylnaphthalene	0.039	U	0.18	0.039	ug/L		12/12/24 17:44	12/13/24 11:41	1
Acenaphthene	0.028	U	0.18	0.028	ug/L		12/12/24 17:44	12/13/24 11:41	1
Acenaphthylene	0.032	U	0.18	0.032	ug/L		12/12/24 17:44	12/13/24 11:41	1
Anthracene	0.050	U	0.18	0.050	ug/L		12/12/24 17:44	12/13/24 11:41	1
Benzo[a]anthracene	0.041	U	0.18	0.041	ug/L		12/12/24 17:44	12/13/24 11:41	1
Benzo[a]pyrene	0.057	U	0.18	0.057	ug/L		12/12/24 17:44	12/13/24 11:41	1
Benzo[b]fluoranthene	0.040	U	0.10	0.040	ug/L		12/12/24 17:44	12/13/24 11:41	1
Benzo[g,h,i]perylene	0.066	U	0.18	0.066	ug/L		12/12/24 17:44	12/13/24 11:41	1
Benzo[k]fluoranthene	0.046	U	0.18	0.046	ug/L		12/12/24 17:44	12/13/24 11:41	1
Chrysene	0.041	U	0.18	0.041	ug/L		12/12/24 17:44	12/13/24 11:41	1
Dibenz(a,h)anthracene	0.053	U	0.18	0.053	ug/L		12/12/24 17:44	12/13/24 11:41	1
Fluoranthene	0.044	I	0.18	0.039	ug/L		12/12/24 17:44	12/13/24 11:41	1
Fluorene	0.045	I	0.18	0.041	ug/L		12/12/24 17:44	12/13/24 11:41	1
Indeno[1,2,3-cd]pyrene	0.055	U	0.18	0.055	ug/L		12/12/24 17:44	12/13/24 11:41	1
Naphthalene	0.027	U	0.18	0.027	ug/L		12/12/24 17:44	12/13/24 11:41	1
Phenanthrene	0.035	U	0.18	0.035	ug/L		12/12/24 17:44	12/13/24 11:41	1
Pyrene	0.052	U	0.18	0.052	ug/L		12/12/24 17:44	12/13/24 11:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-methylnaphthalene-d10	*113*		*42 - 157*	*12/12/24 17:44*	*12/13/24 11:41*	*1*
Fluoranthene-d10 (Surr)	*95*		*37 - 152*	*12/12/24 17:44*	*12/13/24 11:41*	*1*

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	0.010	U	0.020	0.010	ug/L		12/13/24 07:12	12/16/24 19:06	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Brevard County Parcel 102

Job ID: 670-53097-1

Client Sample ID: MW-4R
Date Collected: 12/11/24 12:17
Date Received: 12/11/24 16:18

Lab Sample ID: 670-53097-1
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		80 - 120	12/13/24 07:12	12/16/24 19:06	1

Method: FL-DEP FL-PRO - Florida - Petroleum Range Organics (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Petroleum Hydrocarbons (C8-C40)	0.34	U	1.0	0.34	mg/L		12/12/24 18:24	12/13/24 18:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o- terphenyl (Surr)	107		66 - 139	12/12/24 18:24	12/13/24 18:47	1
C35 (Surr)	109		40 - 129	12/12/24 18:24	12/13/24 18:47	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	68		2.0	1.0	mg/L			12/12/24 20:56	5
Sulfate	190		5.0	2.5	mg/L			12/12/24 20:56	5

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0037	U	0.010	0.0037	mg/L		12/12/24 10:04	12/16/24 14:34	1
Cadmium	0.0023	U	0.010	0.0023	mg/L		12/12/24 10:04	12/16/24 14:34	1
Chromium	0.0049	U	0.010	0.0049	mg/L		12/12/24 10:04	12/16/24 14:34	1
Lead	0.0047	U	0.030	0.0047	mg/L		12/12/24 10:04	12/16/24 14:34	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	1000		5.0	5.0	mg/L			12/13/24 16:24	1

Client Sample ID: MW-5R
Date Collected: 12/11/24 10:45
Date Received: 12/11/24 16:18

Lab Sample ID: 670-53097-2
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.71	U	1.0	0.71	ug/L			12/18/24 03:46	1
Ethylbenzene	0.69	U	1.0	0.69	ug/L			12/18/24 03:46	1
Toluene	0.72	U	1.0	0.72	ug/L			12/18/24 03:46	1
Xylenes, Total	1.3	U	2.0	1.3	ug/L			12/18/24 03:46	1
m-Xylene & p-Xylene	1.3	U	2.0	1.3	ug/L			12/18/24 03:46	1
o-Xylene	0.53	U	1.0	0.53	ug/L			12/18/24 03:46	1
Methyl tert-butyl ether	0.60	U	2.0	0.60	ug/L			12/18/24 03:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		40 - 146		12/18/24 03:46	1
4-Bromofluorobenzene (Surr)	100		41 - 142		12/18/24 03:46	1
Dibromofluoromethane (Surr)	108		53 - 146		12/18/24 03:46	1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	0.032	U	0.18	0.032	ug/L		12/12/24 17:44	12/13/24 12:02	1
2-Methylnaphthalene	0.039	U	0.18	0.039	ug/L		12/12/24 17:44	12/13/24 12:02	1
Acenaphthene	0.028	U	0.18	0.028	ug/L		12/12/24 17:44	12/13/24 12:02	1
Acenaphthylene	0.032	U	0.18	0.032	ug/L		12/12/24 17:44	12/13/24 12:02	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Brevard County Parcel 102

Job ID: 670-53097-1

Client Sample ID: MW-5R
Date Collected: 12/11/24 10:45
Date Received: 12/11/24 16:18

Lab Sample ID: 670-53097-2
Matrix: Water

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	0.050	U	0.18	0.050	ug/L		12/12/24 17:44	12/13/24 12:02	1
Benzo[a]anthracene	0.041	U	0.18	0.041	ug/L		12/12/24 17:44	12/13/24 12:02	1
Benzo[a]pyrene	0.057	U	0.18	0.057	ug/L		12/12/24 17:44	12/13/24 12:02	1
Benzo[b]fluoranthene	0.040	U	0.10	0.040	ug/L		12/12/24 17:44	12/13/24 12:02	1
Benzo[g,h,i]perylene	0.066	U	0.18	0.066	ug/L		12/12/24 17:44	12/13/24 12:02	1
Benzo[k]fluoranthene	0.046	U	0.18	0.046	ug/L		12/12/24 17:44	12/13/24 12:02	1
Chrysene	0.041	U	0.18	0.041	ug/L		12/12/24 17:44	12/13/24 12:02	1
Dibenz(a,h)anthracene	0.053	U	0.18	0.053	ug/L		12/12/24 17:44	12/13/24 12:02	1
Fluoranthene	0.039	U	0.18	0.039	ug/L		12/12/24 17:44	12/13/24 12:02	1
Fluorene	0.041	U	0.18	0.041	ug/L		12/12/24 17:44	12/13/24 12:02	1
Indeno[1,2,3-cd]pyrene	0.055	U	0.18	0.055	ug/L		12/12/24 17:44	12/13/24 12:02	1
Naphthalene	0.027	U	0.18	0.027	ug/L		12/12/24 17:44	12/13/24 12:02	1
Phenanthrene	0.035	U	0.18	0.035	ug/L		12/12/24 17:44	12/13/24 12:02	1
Pyrene	0.052	U	0.18	0.052	ug/L		12/12/24 17:44	12/13/24 12:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-methylnaphthalene-d10	*125*		*42 - 157*	*12/12/24 17:44*	*12/13/24 12:02*	*1*
Fluoranthene-d10 (Surr)	*98*		*37 - 152*	*12/12/24 17:44*	*12/13/24 12:02*	*1*

Method: FL-DEP FL-PRO - Florida - Petroleum Range Organics (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Petroleum Hydrocarbons (C8-C40)	0.34	U	1.0	0.34	mg/L		12/12/24 18:24	12/13/24 19:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o- terphenyl (Surr)	*112*		*66 - 139*	*12/12/24 18:24*	*12/13/24 19:04*	*1*
C35 (Surr)	*114*		*40 - 129*	*12/12/24 18:24*	*12/13/24 19:04*	*1*

Client Sample ID: MW-9R
Date Collected: 12/11/24 11:36
Date Received: 12/11/24 16:18

Lab Sample ID: 670-53097-3
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.71	U	1.0	0.71	ug/L			12/18/24 04:04	1
Ethylbenzene	0.69	U	1.0	0.69	ug/L			12/18/24 04:04	1
Toluene	0.72	U	1.0	0.72	ug/L			12/18/24 04:04	1
Xylenes, Total	1.3	U	2.0	1.3	ug/L			12/18/24 04:04	1
m-Xylene & p-Xylene	1.3	U	2.0	1.3	ug/L			12/18/24 04:04	1
o-Xylene	0.53	U	1.0	0.53	ug/L			12/18/24 04:04	1
Methyl tert-butyl ether	0.60	U	2.0	0.60	ug/L			12/18/24 04:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*40 - 146*		*12/18/24 04:04*	*1*
4-Bromofluorobenzene (Surr)	*103*		*41 - 142*		*12/18/24 04:04*	*1*
Dibromofluoromethane (Surr)	*106*		*53 - 146*		*12/18/24 04:04*	*1*

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	0.032	U	0.18	0.032	ug/L		12/12/24 17:44	12/13/24 12:24	1
2-Methylnaphthalene	0.039	U	0.18	0.039	ug/L		12/12/24 17:44	12/13/24 12:24	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Brevard County Parcel 102

Job ID: 670-53097-1

Client Sample ID: MW-9R

Lab Sample ID: 670-53097-3

Date Collected: 12/11/24 11:36
Date Received: 12/11/24 16:18

Matrix: Water

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.028	U	0.18	0.028	ug/L		12/12/24 17:44	12/13/24 12:24	1
Acenaphthylene	0.032	U	0.18	0.032	ug/L		12/12/24 17:44	12/13/24 12:24	1
Anthracene	0.050	U	0.18	0.050	ug/L		12/12/24 17:44	12/13/24 12:24	1
Benzo[a]anthracene	0.041	U	0.18	0.041	ug/L		12/12/24 17:44	12/13/24 12:24	1
Benzo[a]pyrene	0.057	U	0.18	0.057	ug/L		12/12/24 17:44	12/13/24 12:24	1
Benzo[b]fluoranthene	0.040	U	0.10	0.040	ug/L		12/12/24 17:44	12/13/24 12:24	1
Benzo[g,h,i]perylene	0.066	U	0.18	0.066	ug/L		12/12/24 17:44	12/13/24 12:24	1
Benzo[k]fluoranthene	0.046	U	0.18	0.046	ug/L		12/12/24 17:44	12/13/24 12:24	1
Chrysene	0.041	U	0.18	0.041	ug/L		12/12/24 17:44	12/13/24 12:24	1
Dibenz(a,h)anthracene	0.053	U	0.18	0.053	ug/L		12/12/24 17:44	12/13/24 12:24	1
Fluoranthene	0.039	U	0.18	0.039	ug/L		12/12/24 17:44	12/13/24 12:24	1
Fluorene	0.041	U	0.18	0.041	ug/L		12/12/24 17:44	12/13/24 12:24	1
Indeno[1,2,3-cd]pyrene	0.055	U	0.18	0.055	ug/L		12/12/24 17:44	12/13/24 12:24	1
Naphthalene	0.027	U	0.18	0.027	ug/L		12/12/24 17:44	12/13/24 12:24	1
Phenanthrene	0.035	U	0.18	0.035	ug/L		12/12/24 17:44	12/13/24 12:24	1
Pyrene	0.052	U	0.18	0.052	ug/L		12/12/24 17:44	12/13/24 12:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-methylnaphthalene-d10	*113*		*42 - 157*	*12/12/24 17:44*	*12/13/24 12:24*	*1*
Fluoranthene-d10 (Surr)	*94*		*37 - 152*	*12/12/24 17:44*	*12/13/24 12:24*	*1*

Method: FL-DEP FL-PRO - Florida - Petroleum Range Organics (GC)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Petroleum Hydrocarbons (C8-C40)	0.34	U	1.0	0.34	mg/L		12/12/24 18:24	12/13/24 19:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o- terphenyl (Surr)	*107*		*66 - 139*	*12/12/24 18:24*	*12/13/24 19:22*	*1*
C35 (Surr)	*110*		*40 - 129*	*12/12/24 18:24*	*12/13/24 19:22*	*1*

Client Sample ID: DUP

Lab Sample ID: 670-53097-4

Date Collected: 12/11/24 12:24
Date Received: 12/11/24 16:18

Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.71	U	1.0	0.71	ug/L			12/18/24 04:23	1
Ethylbenzene	0.69	U	1.0	0.69	ug/L			12/18/24 04:23	1
Toluene	0.72	U	1.0	0.72	ug/L			12/18/24 04:23	1
Xylenes, Total	1.3	U	2.0	1.3	ug/L			12/18/24 04:23	1
m-Xylene & p-Xylene	1.3	U	2.0	1.3	ug/L			12/18/24 04:23	1
o-Xylene	0.53	U	1.0	0.53	ug/L			12/18/24 04:23	1
Methyl tert-butyl ether	0.60	U	2.0	0.60	ug/L			12/18/24 04:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*40 - 146*		*12/18/24 04:23*	*1*
4-Bromofluorobenzene (Surr)	*102*		*41 - 142*		*12/18/24 04:23*	*1*
Dibromofluoromethane (Surr)	*103*		*53 - 146*		*12/18/24 04:23*	*1*

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Brevard County Parcel 102

Job ID: 670-53097-1

Client Sample ID: EQP

Lab Sample ID: 670-53097-5
Matrix: Water

Date Collected: 12/11/24 10:59
Date Received: 12/11/24 16:18

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.71	U	1.0	0.71	ug/L			12/18/24 00:43	1
Ethylbenzene	0.69	U	1.0	0.69	ug/L			12/18/24 00:43	1
Toluene	0.72	U	1.0	0.72	ug/L			12/18/24 00:43	1
Xylenes, Total	1.3	U	2.0	1.3	ug/L			12/18/24 00:43	1
m-Xylene & p-Xylene	1.3	U	2.0	1.3	ug/L			12/18/24 00:43	1
o-Xylene	0.53	U	1.0	0.53	ug/L			12/18/24 00:43	1
Methyl tert-butyl ether	0.60	U	2.0	0.60	ug/L			12/18/24 00:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*40 - 146*		*12/18/24 00:43*	*1*
4-Bromofluorobenzene (Surr)	*105*		*41 - 142*		*12/18/24 00:43*	*1*
Dibromofluoromethane (Surr)	*106*		*53 - 146*		*12/18/24 00:43*	*1*

Client Sample ID: TRIP BLANK

Lab Sample ID: 670-53097-6
Matrix: Water

Date Collected: 12/11/24 00:00
Date Received: 12/11/24 16:18

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.61	U	1.0	0.61	ug/L			12/18/24 00:24	1
1,1,1-Trichloroethane	0.80	U	1.0	0.80	ug/L			12/18/24 00:24	1
1,1,2,2-Tetrachloroethane	0.54	U	1.0	0.54	ug/L			12/18/24 00:24	1
1,1,2-Trichloroethane	0.76	U	2.0	0.76	ug/L			12/18/24 00:24	1
1,1-Dichloroethane	0.62	U	1.0	0.62	ug/L			12/18/24 00:24	1
1,1-Dichloroethene	0.94	U	1.0	0.94	ug/L			12/18/24 00:24	1
1,1-Dichloropropene	0.74	U	1.0	0.74	ug/L			12/18/24 00:24	1
1,2,3-Trichlorobenzene	0.86	U	2.0	0.86	ug/L			12/18/24 00:24	1
1,2,3-Trichloropropane	0.64	U	2.0	0.64	ug/L			12/18/24 00:24	1
1,2,4-Trichlorobenzene	0.70	U	2.0	0.70	ug/L			12/18/24 00:24	1
1,2,4-Trimethylbenzene	0.69	U	2.0	0.69	ug/L			12/18/24 00:24	1
1,2-Dibromo-3-Chloropropane	0.96	U	10	0.96	ug/L			12/18/24 00:24	1
1,2-Dichlorobenzene	0.73	U	1.0	0.73	ug/L			12/18/24 00:24	1
1,2-Dichloroethane	0.63	U	1.0	0.63	ug/L			12/18/24 00:24	1
1,2-Dichloropropane	0.80	U	1.0	0.80	ug/L			12/18/24 00:24	1
1,3,5-Trimethylbenzene	0.58	U	2.0	0.58	ug/L			12/18/24 00:24	1
1,3-Dichlorobenzene	0.77	U	1.0	0.77	ug/L			12/18/24 00:24	1
1,3-Dichloropropane	0.60	U	1.0	0.60	ug/L			12/18/24 00:24	1
1,4-Dichlorobenzene	0.76	U	1.0	0.76	ug/L			12/18/24 00:24	1
2,2-Dichloropropane	0.66	U	5.0	0.66	ug/L			12/18/24 00:24	1
2-Butanone (MEK)	4.5	U	10	4.5	ug/L			12/18/24 00:24	1
2-Chlorotoluene	0.68	U	1.0	0.68	ug/L			12/18/24 00:24	1
2-Hexanone	2.5	U	20	2.5	ug/L			12/18/24 00:24	1
4-Chlorotoluene	0.65	U	2.0	0.65	ug/L			12/18/24 00:24	1
4-Isopropyltoluene	0.80	U	2.0	0.80	ug/L			12/18/24 00:24	1
4-Methyl-2-pentanone (MIBK)	5.0	U	20	5.0	ug/L			12/18/24 00:24	1
Acetone	25	U	50	25	ug/L			12/18/24 00:24	1
Benzene	0.71	U	1.0	0.71	ug/L			12/18/24 00:24	1
Bromobenzene	0.77	U	1.0	0.77	ug/L			12/18/24 00:24	1
Bromoform	0.75	U	1.0	0.75	ug/L			12/18/24 00:24	1
Bromomethane	0.95	U	2.0	0.95	ug/L			12/18/24 00:24	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Brevard County Parcel 102

Job ID: 670-53097-1

Client Sample ID: TRIP BLANK
Date Collected: 12/11/24 00:00
Date Received: 12/11/24 16:18

Lab Sample ID: 670-53097-6
Matrix: Water

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

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	2.5	U	5.0	2.5	ug/L			12/18/24 00:24	1
Carbon tetrachloride	0.94	U	1.0	0.94	ug/L			12/18/24 00:24	1
Chlorobenzene	0.72	U	1.0	0.72	ug/L			12/18/24 00:24	1
Chlorobromomethane	0.94	U	2.0	0.94	ug/L			12/18/24 00:24	1
Chlorodibromomethane	0.50	U	1.0	0.50	ug/L			12/18/24 00:24	1
Chloroethane	0.98	U	2.0	0.98	ug/L			12/18/24 00:24	1
Chloroform	0.80	U	5.0	0.80	ug/L			12/18/24 00:24	1
cis-1,2-Dichloroethene	0.53	U	1.0	0.53	ug/L			12/18/24 00:24	1
cis-1,3-Dichloropropene	0.59	U	1.0	0.59	ug/L			12/18/24 00:24	1
Dibromomethane	0.84	U	1.0	0.84	ug/L			12/18/24 00:24	1
Dichlorobromomethane	0.52	U	1.0	0.52	ug/L			12/18/24 00:24	1
Dichlorodifluoromethane	0.74	U	1.0	0.74	ug/L			12/18/24 00:24	1
Ethylbenzene	0.69	U	1.0	0.69	ug/L			12/18/24 00:24	1
Ethylene Dibromide	0.78	U	12	0.78	ug/L			12/18/24 00:24	1
Hexachlorobutadiene	0.70	U	1.0	0.70	ug/L			12/18/24 00:24	1
Isopropylbenzene	0.67	U	1.0	0.67	ug/L			12/18/24 00:24	1
Methyl tert-butyl ether	0.60	U	2.0	0.60	ug/L			12/18/24 00:24	1
Methylene Chloride	5.0	U	10	5.0	ug/L			12/18/24 00:24	1
m-Xylene & p-Xylene	1.3	U	2.0	1.3	ug/L			12/18/24 00:24	1
Naphthalene	0.82	U	2.0	0.82	ug/L			12/18/24 00:24	1
n-Butylbenzene	0.70	U	1.0	0.70	ug/L			12/18/24 00:24	1
N-Propylbenzene	0.50	U	1.0	0.50	ug/L			12/18/24 00:24	1
o-Xylene	0.53	U	1.0	0.53	ug/L			12/18/24 00:24	1
sec-Butylbenzene	0.74	U	2.0	0.74	ug/L			12/18/24 00:24	1
Styrene	0.61	U	1.0	0.61	ug/L			12/18/24 00:24	1
tert-Butylbenzene	0.64	U	2.0	0.64	ug/L			12/18/24 00:24	1
Tetrachloroethene	0.76	U	1.0	0.76	ug/L			12/18/24 00:24	1
Toluene	0.72	U	1.0	0.72	ug/L			12/18/24 00:24	1
trans-1,2-Dichloroethene	0.73	U	1.0	0.73	ug/L			12/18/24 00:24	1
trans-1,3-Dichloropropene	0.73	U	1.0	0.73	ug/L			12/18/24 00:24	1
Trichloroethene	0.89	U	1.0	0.89	ug/L			12/18/24 00:24	1
Trichlorofluoromethane	0.94	U	1.0	0.94	ug/L			12/18/24 00:24	1
Vinyl chloride	0.71	U	1.0	0.71	ug/L			12/18/24 00:24	1
Xylenes, Total	1.3	U	2.0	1.3	ug/L			12/18/24 00:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*40 - 146*		*12/18/24 00:24*	*1*
4-Bromofluorobenzene (Surr)	*103*		*41 - 142*		*12/18/24 00:24*	*1*
Dibromofluoromethane (Surr)	*107*		*53 - 146*		*12/18/24 00:24*	*1*

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Brevard County Parcel 102

Job ID: 670-53097-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	TOL (40-146)	BFB (41-142)	DBFM (53-146)
670-53097-1	MW-4R	97	104	109
670-53097-2	MW-5R	101	100	108
670-53097-3	MW-9R	103	103	106
670-53097-4	DUP	102	102	103
670-53097-5	EQP	99	105	106
670-53097-6	TRIP BLANK	99	103	107
LCS 670-127377/4	Lab Control Sample	99	96	103
MB 670-127377/8	Method Blank	101	104	105

Surrogate Legend

TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	2MN (42-157)	FLN10 (37-152)
670-53097-1	MW-4R	113	95
670-53097-2	MW-5R	125	98
670-53097-3	MW-9R	113	94
LCS 670-126634/2-A	Lab Control Sample	138	94
LCSD 670-126634/3-A	Lab Control Sample Dup	151	117
MB 670-126634/1-A	Method Blank	114	103

Surrogate Legend

2MN = 2-methylnaphthalene-d10
FLN10 = Fluoranthene-d10 (Surr)

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	BFB1 (80-120)
670-53097-1	MW-4R	112
LCS 670-126753/5-A	Lab Control Sample	87
LCS 670-127321/5-A	Lab Control Sample	90
LCSD 670-126753/6-A	Lab Control Sample Dup	94
LCSD 670-127321/6-A	Lab Control Sample Dup	93
MB 670-126753/3-A	Method Blank	94
MB 670-127321/3-A	Method Blank	107

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Brevard County Parcel 102

Job ID: 670-53097-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
		BFB1
Lab Sample ID	Client Sample ID	(60-140)
MRL 670-126753/4-A	Lab Control Sample	98
MRL 670-127321/4-A	Lab Control Sample	100

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Method: FL-PRO - Florida - Petroleum Range Organics (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		OTP	C-35
Lab Sample ID	Client Sample ID	(66-139)	(40-129)
670-53097-1	MW-4R	107	109
670-53097-2	MW-5R	112	114
670-53097-3	MW-9R	107	110
LCS 670-126638/2-A	Lab Control Sample	104	107
LCSD 670-126638/3-A	Lab Control Sample Dup	103	109
MB 670-126638/1-A	Method Blank	117	115

Surrogate Legend

OTP = o- terphenyl (Surr)

C-35 = C35 (Surr)

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Brevard County Parcel 102

Job ID: 670-53097-1

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

Lab Sample ID: MB 670-127377/8
Matrix: Water
Analysis Batch: 127377

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.61	U	1.0	0.61	ug/L			12/18/24 00:06	1
1,1,1-Trichloroethane	0.80	U	1.0	0.80	ug/L			12/18/24 00:06	1
1,1,2,2-Tetrachloroethane	0.54	U	1.0	0.54	ug/L			12/18/24 00:06	1
1,1,2-Trichloroethane	0.76	U	2.0	0.76	ug/L			12/18/24 00:06	1
1,1-Dichloroethane	0.62	U	1.0	0.62	ug/L			12/18/24 00:06	1
1,1-Dichloroethene	0.94	U	1.0	0.94	ug/L			12/18/24 00:06	1
1,1-Dichloropropene	0.74	U	1.0	0.74	ug/L			12/18/24 00:06	1
1,2,3-Trichlorobenzene	0.86	U	2.0	0.86	ug/L			12/18/24 00:06	1
1,2,3-Trichloropropane	0.64	U	2.0	0.64	ug/L			12/18/24 00:06	1
1,2,4-Trichlorobenzene	0.70	U	2.0	0.70	ug/L			12/18/24 00:06	1
1,2,4-Trimethylbenzene	0.69	U	2.0	0.69	ug/L			12/18/24 00:06	1
1,2-Dibromo-3-Chloropropane	0.96	U	10	0.96	ug/L			12/18/24 00:06	1
1,2-Dichlorobenzene	0.73	U	1.0	0.73	ug/L			12/18/24 00:06	1
1,2-Dichloroethane	0.63	U	1.0	0.63	ug/L			12/18/24 00:06	1
1,2-Dichloropropane	0.80	U	1.0	0.80	ug/L			12/18/24 00:06	1
1,3,5-Trimethylbenzene	0.58	U	2.0	0.58	ug/L			12/18/24 00:06	1
1,3-Dichlorobenzene	0.77	U	1.0	0.77	ug/L			12/18/24 00:06	1
1,3-Dichloropropane	0.60	U	1.0	0.60	ug/L			12/18/24 00:06	1
1,4-Dichlorobenzene	0.76	U	1.0	0.76	ug/L			12/18/24 00:06	1
2,2-Dichloropropane	0.66	U	5.0	0.66	ug/L			12/18/24 00:06	1
2-Butanone (MEK)	4.5	U	10	4.5	ug/L			12/18/24 00:06	1
2-Chlorotoluene	0.68	U	1.0	0.68	ug/L			12/18/24 00:06	1
2-Hexanone	2.5	U	20	2.5	ug/L			12/18/24 00:06	1
4-Chlorotoluene	0.65	U	2.0	0.65	ug/L			12/18/24 00:06	1
4-Isopropyltoluene	0.80	U	2.0	0.80	ug/L			12/18/24 00:06	1
4-Methyl-2-pentanone (MIBK)	5.0	U	20	5.0	ug/L			12/18/24 00:06	1
Acetone	25	U	50	25	ug/L			12/18/24 00:06	1
Benzene	0.71	U	1.0	0.71	ug/L			12/18/24 00:06	1
Bromobenzene	0.77	U	1.0	0.77	ug/L			12/18/24 00:06	1
Bromoform	0.75	U	1.0	0.75	ug/L			12/18/24 00:06	1
Bromomethane	0.95	U	2.0	0.95	ug/L			12/18/24 00:06	1
Carbon disulfide	2.5	U	5.0	2.5	ug/L			12/18/24 00:06	1
Carbon tetrachloride	0.94	U	1.0	0.94	ug/L			12/18/24 00:06	1
Chlorobenzene	0.72	U	1.0	0.72	ug/L			12/18/24 00:06	1
Chlorobromomethane	0.94	U	2.0	0.94	ug/L			12/18/24 00:06	1
Chlorodibromomethane	0.50	U	1.0	0.50	ug/L			12/18/24 00:06	1
Chloroethane	0.98	U	2.0	0.98	ug/L			12/18/24 00:06	1
Chloroform	0.80	U	5.0	0.80	ug/L			12/18/24 00:06	1
cis-1,2-Dichloroethene	0.53	U	1.0	0.53	ug/L			12/18/24 00:06	1
cis-1,3-Dichloropropene	0.59	U	1.0	0.59	ug/L			12/18/24 00:06	1
Dibromomethane	0.84	U	1.0	0.84	ug/L			12/18/24 00:06	1
Dichlorobromomethane	0.52	U	1.0	0.52	ug/L			12/18/24 00:06	1
Dichlorodifluoromethane	0.74	U	1.0	0.74	ug/L			12/18/24 00:06	1
Ethylbenzene	0.69	U	1.0	0.69	ug/L			12/18/24 00:06	1
Ethylene Dibromide	0.78	U	12	0.78	ug/L			12/18/24 00:06	1
Hexachlorobutadiene	0.70	U	1.0	0.70	ug/L			12/18/24 00:06	1
Isopropylbenzene	0.67	U	1.0	0.67	ug/L			12/18/24 00:06	1
Methyl tert-butyl ether	0.60	U	2.0	0.60	ug/L			12/18/24 00:06	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Brevard County Parcel 102

Job ID: 670-53097-1

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

Lab Sample ID: MB 670-127377/8
Matrix: Water
Analysis Batch: 127377

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	5.0	U	10	5.0	ug/L			12/18/24 00:06	1
m-Xylene & p-Xylene	1.3	U	2.0	1.3	ug/L			12/18/24 00:06	1
Naphthalene	0.82	U	2.0	0.82	ug/L			12/18/24 00:06	1
n-Butylbenzene	0.70	U	1.0	0.70	ug/L			12/18/24 00:06	1
N-Propylbenzene	0.50	U	1.0	0.50	ug/L			12/18/24 00:06	1
o-Xylene	0.53	U	1.0	0.53	ug/L			12/18/24 00:06	1
sec-Butylbenzene	0.74	U	2.0	0.74	ug/L			12/18/24 00:06	1
Styrene	0.61	U	1.0	0.61	ug/L			12/18/24 00:06	1
tert-Butylbenzene	0.64	U	2.0	0.64	ug/L			12/18/24 00:06	1
Tetrachloroethene	0.76	U	1.0	0.76	ug/L			12/18/24 00:06	1
Toluene	0.72	U	1.0	0.72	ug/L			12/18/24 00:06	1
trans-1,2-Dichloroethene	0.73	U	1.0	0.73	ug/L			12/18/24 00:06	1
trans-1,3-Dichloropropene	0.73	U	1.0	0.73	ug/L			12/18/24 00:06	1
Trichloroethene	0.89	U	1.0	0.89	ug/L			12/18/24 00:06	1
Trichlorofluoromethane	0.94	U	1.0	0.94	ug/L			12/18/24 00:06	1
Vinyl chloride	0.71	U	1.0	0.71	ug/L			12/18/24 00:06	1
Xylenes, Total	1.3	U	2.0	1.3	ug/L			12/18/24 00:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*40 - 146*		*12/18/24 00:06*	*1*
4-Bromofluorobenzene (Surr)	*104*		*41 - 142*		*12/18/24 00:06*	*1*
Dibromofluoromethane (Surr)	*105*		*53 - 146*		*12/18/24 00:06*	*1*

Lab Sample ID: LCS 670-127377/4
Matrix: Water
Analysis Batch: 127377

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	20.0	20.9		ug/L		104	54 - 141
1,1,1-Trichloroethane	20.0	21.3		ug/L		107	57 - 148
1,1,2,2-Tetrachloroethane	20.0	18.2		ug/L		91	60 - 139
1,1,2-Trichloroethane	20.0	20.0		ug/L		100	57 - 141
1,1-Dichloroethane	20.0	19.4		ug/L		97	57 - 142
1,1-Dichloroethene	20.0	17.8		ug/L		89	47 - 139
1,1-Dichloropropene	20.0	19.3		ug/L		96	56 - 137
1,2,3-Trichlorobenzene	20.0	20.8		ug/L		104	43 - 168
1,2,3-Trichloropropane	20.0	19.3		ug/L		97	57 - 141
1,2,4-Trichlorobenzene	20.0	19.2		ug/L		96	52 - 159
1,2,4-Trimethylbenzene	20.0	21.0		ug/L		105	59 - 142
1,2-Dibromo-3-Chloropropane	20.0	19.4		ug/L		97	48 - 150
1,2-Dichlorobenzene	20.0	20.5		ug/L		103	63 - 131
1,2-Dichloroethane	20.0	18.8		ug/L		94	50 - 156
1,2-Dichloropropane	20.0	18.3		ug/L		91	61 - 133
1,3,5-Trimethylbenzene	20.0	20.4		ug/L		102	61 - 137
1,3-Dichlorobenzene	20.0	20.1		ug/L		100	66 - 129
1,3-Dichloropropane	20.0	19.2		ug/L		96	50 - 148
1,4-Dichlorobenzene	20.0	20.0		ug/L		100	65 - 133
2,2-Dichloropropane	20.0	17.8		ug/L		89	54 - 146

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Brevard County Parcel 102

Job ID: 670-53097-1

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

Lab Sample ID: LCS 670-127377/4
Matrix: Water
Analysis Batch: 127377

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Butanone (MEK)	200	193		ug/L		97	10 - 180
2-Chlorotoluene	20.0	19.9		ug/L		99	64 - 133
2-Hexanone	200	182		ug/L		91	12 - 180
4-Chlorotoluene	20.0	20.5		ug/L		102	62 - 138
4-Isopropyltoluene	20.0	20.0		ug/L		100	67 - 153
4-Methyl-2-pentanone (MIBK)	200	182		ug/L		91	19 - 180
Acetone	200	166		ug/L		83	10 - 180
Benzene	20.0	19.9		ug/L		100	58 - 136
Bromobenzene	20.0	21.4		ug/L		107	59 - 147
Bromoform	20.0	20.4		ug/L		102	48 - 148
Bromomethane	20.0	19.2		ug/L		96	10 - 173
Carbon disulfide	20.0	16.5		ug/L		83	43 - 153
Carbon tetrachloride	20.0	20.7		ug/L		103	54 - 156
Chlorobenzene	20.0	20.3		ug/L		102	51 - 139
Chlorobromomethane	20.0	20.3		ug/L		102	54 - 141
Chlorodibromomethane	20.0	20.7		ug/L		103	50 - 140
Chloroethane	20.0	16.9		ug/L		84	27 - 180
Chloroform	20.0	19.8		ug/L		99	58 - 139
cis-1,2-Dichloroethene	20.0	19.0		ug/L		95	56 - 128
cis-1,3-Dichloropropene	20.0	19.5		ug/L		97	64 - 128
Dibromomethane	20.0	19.0		ug/L		95	59 - 143
Dichlorobromomethane	20.0	20.6		ug/L		103	58 - 135
Dichlorodifluoromethane	20.0	17.7		ug/L		88	10 - 180
Ethylbenzene	20.0	20.5		ug/L		103	63 - 133
Ethylene Dibromide	20.0	19.8		ug/L		99	57 - 140
Hexachlorobutadiene	20.0	21.8		ug/L		109	57 - 162
Isopropylbenzene	20.0	18.5		ug/L		93	60 - 132
Methyl tert-butyl ether	20.0	19.4		ug/L		97	51 - 145
Methylene Chloride	20.0	19.9		ug/L		100	43 - 142
m-Xylene & p-Xylene	20.0	18.9		ug/L		95	64 - 133
Naphthalene	20.0	19.8		ug/L		99	40 - 172
n-Butylbenzene	20.0	17.2		ug/L		86	59 - 148
N-Propylbenzene	20.0	19.7		ug/L		99	63 - 135
o-Xylene	20.0	18.7		ug/L		93	61 - 129
sec-Butylbenzene	20.0	20.0		ug/L		100	63 - 137
Styrene	20.0	18.9		ug/L		95	59 - 136
tert-Butylbenzene	20.0	20.1		ug/L		100	61 - 136
Tetrachloroethene	20.0	22.1		ug/L		110	60 - 147
Toluene	20.0	20.0		ug/L		100	64 - 131
trans-1,2-Dichloroethene	20.0	19.5		ug/L		97	54 - 134
trans-1,3-Dichloropropene	20.0	20.2		ug/L		101	65 - 149
Trichloroethene	20.0	20.3		ug/L		102	62 - 135
Trichlorofluoromethane	20.0	18.4		ug/L		92	56 - 155
Vinyl chloride	20.0	17.0		ug/L		85	20 - 167
Xylenes, Total	40.0	37.6		ug/L		94	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*40 - 146*

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Brevard County Parcel 102

Job ID: 670-53097-1

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

Lab Sample ID: LCS 670-127377/4
Matrix: Water
Analysis Batch: 127377

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		41 - 142
Dibromofluoromethane (Surr)	103		53 - 146

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 670-126634/1-A
Matrix: Water
Analysis Batch: 126747

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 126634

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	0.032	U	0.18	0.032	ug/L		12/12/24 17:44	12/13/24 09:55	1
2-Methylnaphthalene	0.039	U	0.18	0.039	ug/L		12/12/24 17:44	12/13/24 09:55	1
Acenaphthene	0.028	U	0.18	0.028	ug/L		12/12/24 17:44	12/13/24 09:55	1
Acenaphthylene	0.032	U	0.18	0.032	ug/L		12/12/24 17:44	12/13/24 09:55	1
Anthracene	0.050	U	0.18	0.050	ug/L		12/12/24 17:44	12/13/24 09:55	1
Benzo[a]anthracene	0.041	U	0.18	0.041	ug/L		12/12/24 17:44	12/13/24 09:55	1
Benzo[a]pyrene	0.057	U	0.18	0.057	ug/L		12/12/24 17:44	12/13/24 09:55	1
Benzo[b]fluoranthene	0.040	U	0.10	0.040	ug/L		12/12/24 17:44	12/13/24 09:55	1
Benzo[g,h,i]perylene	0.066	U	0.18	0.066	ug/L		12/12/24 17:44	12/13/24 09:55	1
Benzo[k]fluoranthene	0.046	U	0.18	0.046	ug/L		12/12/24 17:44	12/13/24 09:55	1
Chrysene	0.041	U	0.18	0.041	ug/L		12/12/24 17:44	12/13/24 09:55	1
Dibenz(a,h)anthracene	0.053	U	0.18	0.053	ug/L		12/12/24 17:44	12/13/24 09:55	1
Fluoranthene	0.039	U	0.18	0.039	ug/L		12/12/24 17:44	12/13/24 09:55	1
Fluorene	0.041	U	0.18	0.041	ug/L		12/12/24 17:44	12/13/24 09:55	1
Indeno[1,2,3-cd]pyrene	0.055	U	0.18	0.055	ug/L		12/12/24 17:44	12/13/24 09:55	1
Naphthalene	0.027	U	0.18	0.027	ug/L		12/12/24 17:44	12/13/24 09:55	1
Phenanthrene	0.035	U	0.18	0.035	ug/L		12/12/24 17:44	12/13/24 09:55	1
Pyrene	0.052	U	0.18	0.052	ug/L		12/12/24 17:44	12/13/24 09:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-methylnaphthalene-d10	114		42 - 157	12/12/24 17:44	12/13/24 09:55	1
Fluoranthene-d10 (Surr)	103		37 - 152	12/12/24 17:44	12/13/24 09:55	1

Lab Sample ID: LCS 670-126634/2-A
Matrix: Water
Analysis Batch: 126747

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 126634

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	3.64	3.44		ug/L		94	45 - 148
2-Methylnaphthalene	3.64	3.29		ug/L		90	41 - 146
Acenaphthene	3.64	3.53		ug/L		97	45 - 166
Acenaphthylene	3.64	3.50		ug/L		96	40 - 161
Anthracene	3.64	3.21		ug/L		88	55 - 160
Benzo[a]anthracene	3.64	3.84		ug/L		106	36 - 150
Benzo[a]pyrene	3.64	4.20		ug/L		115	38 - 152
Benzo[b]fluoranthene	3.64	4.03		ug/L		111	45 - 154
Benzo[g,h,i]perylene	3.64	4.27		ug/L		117	38 - 165
Benzo[k]fluoranthene	3.64	3.69		ug/L		101	48 - 158

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Brevard County Parcel 102

Job ID: 670-53097-1

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 670-126634/2-A
Matrix: Water
Analysis Batch: 126747

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 126634

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chrysene	3.64	3.52		ug/L		97	41 - 160
Dibenz(a,h)anthracene	3.64	4.33		ug/L		119	52 - 162
Fluoranthene	3.64	2.90		ug/L		80	52 - 185
Fluorene	3.64	3.88		ug/L		107	60 - 168
Indeno[1,2,3-cd]pyrene	3.64	4.18		ug/L		115	46 - 152
Naphthalene	3.64	3.03		ug/L		83	44 - 166
Phenanthrene	3.64	3.24		ug/L		89	60 - 184
Pyrene	3.64	3.45		ug/L		95	55 - 171

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-methylnaphthalene-d10	*138*		*42 - 157*
Fluoranthene-d10 (Surr)	*94*		*37 - 152*

Lab Sample ID: LCSD 670-126634/3-A
Matrix: Water
Analysis Batch: 126747

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 126634

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene	3.64	3.85		ug/L		106	45 - 148	11	25
2-Methylnaphthalene	3.64	3.73		ug/L		103	41 - 146	13	25
Acenaphthene	3.64	3.86		ug/L		106	45 - 166	9	25
Acenaphthylene	3.64	3.94		ug/L		108	40 - 161	12	25
Anthracene	3.64	3.46		ug/L		95	55 - 160	8	25
Benzo[a]anthracene	3.64	4.18		ug/L		115	36 - 150	9	25
Benzo[a]pyrene	3.64	4.66		ug/L		128	38 - 152	10	25
Benzo[b]fluoranthene	3.64	4.23		ug/L		116	45 - 154	5	25
Benzo[g,h,i]perylene	3.64	4.63		ug/L		127	38 - 165	8	25
Benzo[k]fluoranthene	3.64	4.40		ug/L		121	48 - 158	18	25
Chrysene	3.64	3.86		ug/L		106	41 - 160	9	25
Dibenz(a,h)anthracene	3.64	4.65		ug/L		128	52 - 162	7	25
Fluoranthene	3.64	3.34		ug/L		92	52 - 185	14	25
Fluorene	3.64	4.30		ug/L		118	60 - 168	10	25
Indeno[1,2,3-cd]pyrene	3.64	4.43		ug/L		122	46 - 152	6	25
Naphthalene	3.64	3.55		ug/L		97	44 - 166	16	25
Phenanthrene	3.64	3.47		ug/L		95	60 - 184	7	25
Pyrene	3.64	3.85		ug/L		106	55 - 171	11	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-methylnaphthalene-d10	*151*		*42 - 157*
Fluoranthene-d10 (Surr)	*117*		*37 - 152*

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Brevard County Parcel 102

Job ID: 670-53097-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 670-126753/3-A
Matrix: Water
Analysis Batch: 126760

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 126753

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	0.010	U	0.020	0.010	ug/L		12/13/24 07:12	12/13/24 19:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		80 - 120	12/13/24 07:12	12/13/24 19:27	1

Lab Sample ID: LCS 670-126753/5-A
Matrix: Water
Analysis Batch: 126760

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 126753

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylene Dibromide	0.229	0.191		ug/L		84	50 - 170

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		80 - 120

Lab Sample ID: LCSD 670-126753/6-A
Matrix: Water
Analysis Batch: 126760

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 126753

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylene Dibromide	0.229	0.213		ug/L		93	50 - 170	11	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		80 - 120

Lab Sample ID: MRL 670-126753/4-A
Matrix: Water
Analysis Batch: 126760

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 126753

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Ethylene Dibromide	0.0100	0.0102	I	ug/L		102	60 - 140

Surrogate	MRL %Recovery	MRL Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		60 - 140

Lab Sample ID: MB 670-127321/3-A
Matrix: Water
Analysis Batch: 127328

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 127321

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	0.010	U	0.020	0.010	ug/L		12/17/24 08:15	12/17/24 09:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		80 - 120	12/17/24 08:15	12/17/24 09:23	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Brevard County Parcel 102

Job ID: 670-53097-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: LCS 670-127321/5-A
Matrix: Water
Analysis Batch: 127328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127321

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylene Dibromide	0.229	0.189		ug/L		83	50 - 170

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	90		*80 - 120*

Lab Sample ID: LCSD 670-127321/6-A
Matrix: Water
Analysis Batch: 127328

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 127321

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylene Dibromide	0.229	0.185		ug/L		81	50 - 170	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	93		*80 - 120*

Lab Sample ID: MRL 670-127321/4-A
Matrix: Water
Analysis Batch: 127328

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127321

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Ethylene Dibromide	0.0100	0.010	U	ug/L		96	60 - 140

Surrogate	*MRL %Recovery*	*MRL Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	100		*60 - 140*

Method: FL-PRO - Florida - Petroleum Range Organics (GC)

Lab Sample ID: MB 670-126638/1-A
Matrix: Water
Analysis Batch: 126851

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 126638

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Petroleum Hydrocarbons (C8-C40)	0.34	U	1.0	0.34	mg/L		12/12/24 18:24	12/13/24 12:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o- terphenyl (Surr)	117		*66 - 139*	*12/12/24 18:24*	*12/13/24 12:26*	*1*
C35 (Surr)	115		*40 - 129*	*12/12/24 18:24*	*12/13/24 12:26*	*1*

Lab Sample ID: LCS 670-126638/2-A
Matrix: Water
Analysis Batch: 126851

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 126638

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Petroleum Hydrocarbons (C8-C40)	15.5	16.1		mg/L		104	55 - 130

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Brevard County Parcel 102

Job ID: 670-53097-1

Method: FL-PRO - Florida - Petroleum Range Organics (GC) (Continued)

Lab Sample ID: LCS 670-126638/2-A
Matrix: Water
Analysis Batch: 126851

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 126638

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-terphenyl (Surr)	104		66 - 139
C35 (Surr)	107		40 - 129

Lab Sample ID: LCSD 670-126638/3-A
Matrix: Water
Analysis Batch: 126851

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 126638

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Petroleum Hydrocarbons (C8-C40)	15.5	16.0		mg/L		104	55 - 130	1	40

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
o-terphenyl (Surr)	103		66 - 139
C35 (Surr)	109		40 - 129

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 670-126459/37
Matrix: Water
Analysis Batch: 126459

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.20	U	0.40	0.20	mg/L			12/12/24 15:59	1
Sulfate	0.50	U	1.0	0.50	mg/L			12/12/24 15:59	1

Lab Sample ID: MB 670-126459/6
Matrix: Water
Analysis Batch: 126459

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.20	U	0.40	0.20	mg/L			12/12/24 09:38	1
Sulfate	0.50	U	1.0	0.50	mg/L			12/12/24 09:38	1

Lab Sample ID: LCS 670-126459/35
Matrix: Water
Analysis Batch: 126459

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	4.00	4.20		mg/L		105	90 - 110
Sulfate	10.0	10.4		mg/L		104	90 - 110

Lab Sample ID: LCSD 670-126459/36
Matrix: Water
Analysis Batch: 126459

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	4.00	4.20		mg/L		105	90 - 110	0	20
Sulfate	10.0	10.4		mg/L		104	90 - 110	0	20

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: Brevard County Parcel 102

Job ID: 670-53097-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 670-126459/5
Matrix: Water
Analysis Batch: 126459

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	4.00	4.23		mg/L		106	90 - 110	0	20
Sulfate	10.0	10.4		mg/L		104	90 - 110	0	20

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 670-126502/3-A
Matrix: Water
Analysis Batch: 127240

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 126502

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0033	U	0.0090	0.0033	mg/L		12/12/24 10:04	12/16/24 14:17	1
Cadmium	0.0021	U	0.0090	0.0021	mg/L		12/12/24 10:04	12/16/24 14:17	1
Chromium	0.0044	U	0.0090	0.0044	mg/L		12/12/24 10:04	12/16/24 14:17	1
Lead	0.0042	U	0.027	0.0042	mg/L		12/12/24 10:04	12/16/24 14:17	1

Lab Sample ID: LCS 670-126502/1-A
Matrix: Water
Analysis Batch: 127240

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 126502

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.110		mg/L		110	80 - 120
Cadmium	0.100	0.111		mg/L		111	80 - 120
Chromium	0.100	0.110		mg/L		110	80 - 120
Lead	0.100	0.109		mg/L		109	80 - 120

Lab Sample ID: LCSD 670-126502/2-A
Matrix: Water
Analysis Batch: 127240

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 126502

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	0.100	0.112		mg/L		112	80 - 120	1	20
Cadmium	0.100	0.111		mg/L		111	80 - 120	0	20
Chromium	0.100	0.110		mg/L		110	80 - 120	0	20
Lead	0.100	0.110		mg/L		110	80 - 120	0	20

Method: 2540C - 2015 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 670-126963/1
Matrix: Water
Analysis Batch: 126963

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	5.0	U	5.0	5.0	mg/L			12/13/24 16:24	1

Lab Sample ID: LCS 670-126963/2
Matrix: Water
Analysis Batch: 126963

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1500	1420		mg/L		95	80 - 120

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Brevard County Parcel 102

Job ID: 670-53097-1

GC/MS VOA

Analysis Batch: 127377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-53097-1	MW-4R	Total/NA	Water	8260D	
670-53097-2	MW-5R	Total/NA	Water	8260D	
670-53097-3	MW-9R	Total/NA	Water	8260D	
670-53097-4	DUP	Total/NA	Water	8260D	
670-53097-5	EQP	Total/NA	Water	8260D	
670-53097-6	TRIP BLANK	Total/NA	Water	8260D	
MB 670-127377/8	Method Blank	Total/NA	Water	8260D	
LCS 670-127377/4	Lab Control Sample	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 126634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-53097-1	MW-4R	Total/NA	Water	3511	
670-53097-2	MW-5R	Total/NA	Water	3511	
670-53097-3	MW-9R	Total/NA	Water	3511	
MB 670-126634/1-A	Method Blank	Total/NA	Water	3511	
LCS 670-126634/2-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 670-126634/3-A	Lab Control Sample Dup	Total/NA	Water	3511	

Analysis Batch: 126747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-53097-1	MW-4R	Total/NA	Water	8270E SIM	126634
670-53097-2	MW-5R	Total/NA	Water	8270E SIM	126634
670-53097-3	MW-9R	Total/NA	Water	8270E SIM	126634
MB 670-126634/1-A	Method Blank	Total/NA	Water	8270E SIM	126634
LCS 670-126634/2-A	Lab Control Sample	Total/NA	Water	8270E SIM	126634
LCSD 670-126634/3-A	Lab Control Sample Dup	Total/NA	Water	8270E SIM	126634

GC Semi VOA

Prep Batch: 126638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-53097-1	MW-4R	Total/NA	Water	3511	
670-53097-2	MW-5R	Total/NA	Water	3511	
670-53097-3	MW-9R	Total/NA	Water	3511	
MB 670-126638/1-A	Method Blank	Total/NA	Water	3511	
LCS 670-126638/2-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 670-126638/3-A	Lab Control Sample Dup	Total/NA	Water	3511	

Prep Batch: 126753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-53097-1	MW-4R	Total/NA	Water	8011	
MB 670-126753/3-A	Method Blank	Total/NA	Water	8011	
LCS 670-126753/5-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 670-126753/6-A	Lab Control Sample Dup	Total/NA	Water	8011	
MRL 670-126753/4-A	Lab Control Sample	Total/NA	Water	8011	

Analysis Batch: 126760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 670-126753/3-A	Method Blank	Total/NA	Water	8011	126753
LCS 670-126753/5-A	Lab Control Sample	Total/NA	Water	8011	126753

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Brevard County Parcel 102

Job ID: 670-53097-1

GC Semi VOA (Continued)

Analysis Batch: 126760 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 670-126753/6-A	Lab Control Sample Dup	Total/NA	Water	8011	126753
MRL 670-126753/4-A	Lab Control Sample	Total/NA	Water	8011	126753

Analysis Batch: 126851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-53097-1	MW-4R	Total/NA	Water	FL-PRO	126638
670-53097-2	MW-5R	Total/NA	Water	FL-PRO	126638
670-53097-3	MW-9R	Total/NA	Water	FL-PRO	126638
MB 670-126638/1-A	Method Blank	Total/NA	Water	FL-PRO	126638
LCS 670-126638/2-A	Lab Control Sample	Total/NA	Water	FL-PRO	126638
LCSD 670-126638/3-A	Lab Control Sample Dup	Total/NA	Water	FL-PRO	126638

Analysis Batch: 127124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-53097-1	MW-4R	Total/NA	Water	8011	126753

Prep Batch: 127321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 670-127321/3-A	Method Blank	Total/NA	Water	8011	
LCS 670-127321/5-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 670-127321/6-A	Lab Control Sample Dup	Total/NA	Water	8011	
MRL 670-127321/4-A	Lab Control Sample	Total/NA	Water	8011	

Analysis Batch: 127328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 670-127321/3-A	Method Blank	Total/NA	Water	8011	127321
LCS 670-127321/5-A	Lab Control Sample	Total/NA	Water	8011	127321
LCSD 670-127321/6-A	Lab Control Sample Dup	Total/NA	Water	8011	127321
MRL 670-127321/4-A	Lab Control Sample	Total/NA	Water	8011	127321

HPLC/IC

Analysis Batch: 126459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-53097-1	MW-4R	Total/NA	Water	300.0	
MB 670-126459/37	Method Blank	Total/NA	Water	300.0	
MB 670-126459/6	Method Blank	Total/NA	Water	300.0	
LCS 670-126459/35	Lab Control Sample	Total/NA	Water	300.0	
LCSD 670-126459/36	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 670-126459/5	Lab Control Sample Dup	Total/NA	Water	300.0	

Metals

Prep Batch: 126502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-53097-1	MW-4R	Total Recoverable	Water	3005A	
MB 670-126502/3-A	Method Blank	Total Recoverable	Water	3005A	
LCS 670-126502/1-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCSD 670-126502/2-A	Lab Control Sample Dup	Total Recoverable	Water	3005A	

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Brevard County Parcel 102

Job ID: 670-53097-1

Metals

Analysis Batch: 127240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-53097-1	MW-4R	Total Recoverable	Water	6010D	126502
MB 670-126502/3-A	Method Blank	Total Recoverable	Water	6010D	126502
LCS 670-126502/1-A	Lab Control Sample	Total Recoverable	Water	6010D	126502
LCSD 670-126502/2-A	Lab Control Sample Dup	Total Recoverable	Water	6010D	126502

General Chemistry

Analysis Batch: 126963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
670-53097-1	MW-4R	Total/NA	Water	2540C - 2015	
MB 670-126963/1	Method Blank	Total/NA	Water	2540C - 2015	
LCS 670-126963/2	Lab Control Sample	Total/NA	Water	2540C - 2015	

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Brevard County Parcel 102

Job ID: 670-53097-1

Client Sample ID: MW-4R

Date Collected: 12/11/24 12:17
Date Received: 12/11/24 16:18

Lab Sample ID: 670-53097-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	127377	LT	EET ORL	12/18/24 03:29
Total/NA	Prep	3511			126634	EH	EET ORL	12/12/24 17:44
Total/NA	Analysis	8270E SIM		1	126747	SI	EET ORL	12/13/24 11:41
Total/NA	Prep	8011			126753	JB	EET ORL	12/13/24 07:12
Total/NA	Analysis	8011		1	127124	MH	EET ORL	12/16/24 19:06
Total/NA	Prep	3511			126638	FC	EET ORL	12/12/24 18:24
Total/NA	Analysis	FL-PRO		1	126851	JR	EET ORL	12/13/24 18:47
Total/NA	Analysis	300.0		5	126459	YGS	EET ORL	12/12/24 20:56
Total Recoverable	Prep	3005A			126502	JR	EET ORL	12/12/24 10:04
Total Recoverable	Analysis	6010D		1	127240	AS	EET ORL	12/16/24 14:34
Total/NA	Analysis	2540C - 2015		1	126963	SM	EET ORL	12/13/24 16:24

Client Sample ID: MW-5R

Date Collected: 12/11/24 10:45
Date Received: 12/11/24 16:18

Lab Sample ID: 670-53097-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	127377	LT	EET ORL	12/18/24 03:46
Total/NA	Prep	3511			126634	EH	EET ORL	12/12/24 17:44
Total/NA	Analysis	8270E SIM		1	126747	SI	EET ORL	12/13/24 12:02
Total/NA	Prep	3511			126638	FC	EET ORL	12/12/24 18:24
Total/NA	Analysis	FL-PRO		1	126851	JR	EET ORL	12/13/24 19:04

Client Sample ID: MW-9R

Date Collected: 12/11/24 11:36
Date Received: 12/11/24 16:18

Lab Sample ID: 670-53097-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	127377	LT	EET ORL	12/18/24 04:04
Total/NA	Prep	3511			126634	EH	EET ORL	12/12/24 17:44
Total/NA	Analysis	8270E SIM		1	126747	SI	EET ORL	12/13/24 12:24
Total/NA	Prep	3511			126638	FC	EET ORL	12/12/24 18:24
Total/NA	Analysis	FL-PRO		1	126851	JR	EET ORL	12/13/24 19:22

Client Sample ID: DUP

Date Collected: 12/11/24 12:24
Date Received: 12/11/24 16:18

Lab Sample ID: 670-53097-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	127377	LT	EET ORL	12/18/24 04:23

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: Brevard County Parcel 102

Job ID: 670-53097-1

Client Sample ID: EQP
Date Collected: 12/11/24 10:59
Date Received: 12/11/24 16:18

Lab Sample ID: 670-53097-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	127377	LT	EET ORL	12/18/24 00:43

Client Sample ID: TRIP BLANK
Date Collected: 12/11/24 00:00
Date Received: 12/11/24 16:18

Lab Sample ID: 670-53097-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	127377	LT	EET ORL	12/18/24 00:24

Laboratory References:

EET ORL = Eurofins Orlando, 481 Newburyport Avenue, Altamonte Springs, FL 32701, TEL (407)339-5984

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Job ID: 670-53097-1
Project/Site: Brevard County Parcel 102

Laboratory: Eurofins Orlando

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

Authority	Program	Identification Number	Expiration Date
Florida	NELAP	E83018	06-30-25

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Brevard County Parcel 102

Job ID: 670-53097-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET ORL
8270E SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	EET ORL
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	EET ORL
FL-PRO	Florida - Petroleum Range Organics (GC)	FL-DEP	EET ORL
300.0	Anions, Ion Chromatography	EPA	EET ORL
6010D	Metals (ICP)	SW846	EET ORL
2540C - 2015	Total Dissolved Solids (Dried at 180 °C)	SM	EET ORL
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET ORL
3511	Microextraction of Organic Compounds	SW846	EET ORL
5030C	Purge and Trap	SW846	EET ORL
8011	Microextraction	SW846	EET ORL

Protocol References:

EPA = US Environmental Protection Agency

FL-DEP = State Of Florida Department Of Environmental Protection, Florida Administrative Code.

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

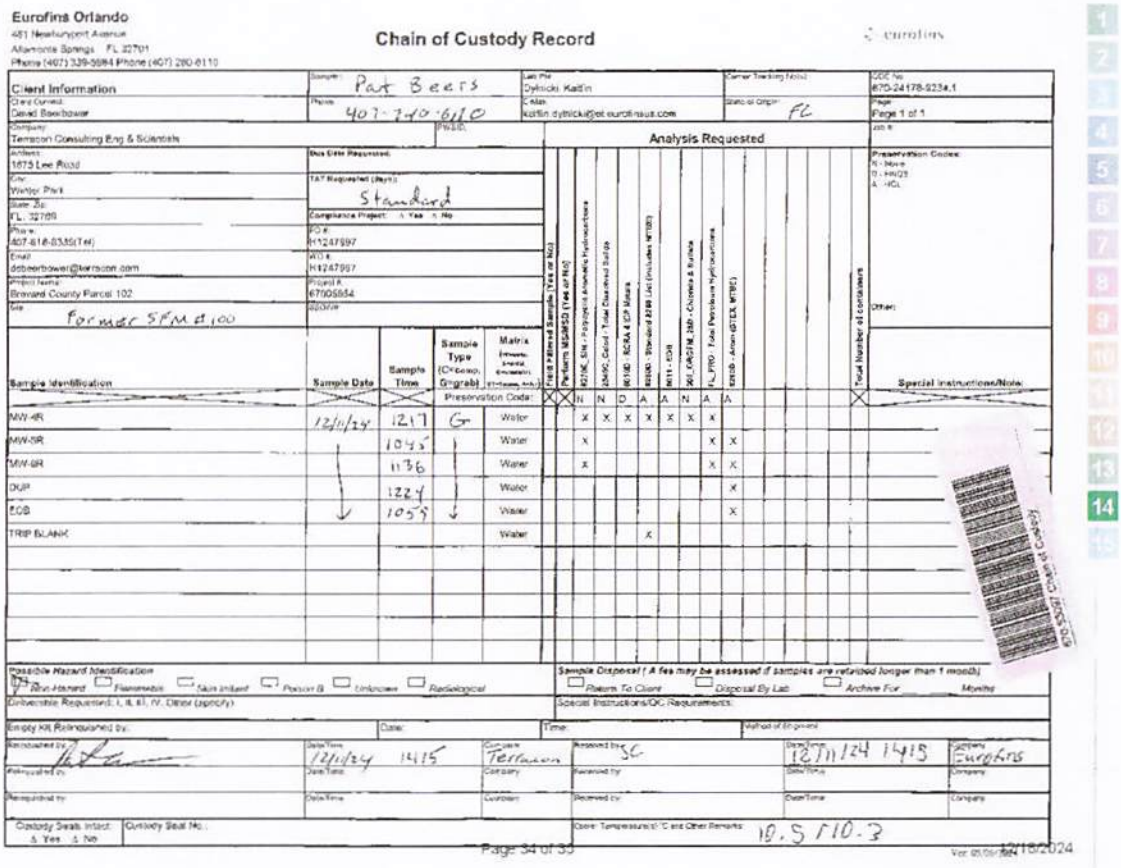
EET ORL = Eurofins Orlando, 481 Newburyport Avenue, Altamonte Springs, FL 32701, TEL (407)339-5984

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: Brevard County Parcel 102

Job ID: 670-53097-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
670-53097-1	MW-4R	Water	12/11/24 12:17	12/11/24 16:18
670-53097-2	MW-5R	Water	12/11/24 10:45	12/11/24 16:18
670-53097-3	MW-9R	Water	12/11/24 11:36	12/11/24 16:18
670-53097-4	DUP	Water	12/11/24 12:24	12/11/24 16:18
670-53097-5	EQP	Water	12/11/24 10:59	12/11/24 16:18
670-53097-6	TRIP BLANK	Water	12/11/24 00:00	12/11/24 16:18



Eurofins Orlando
481 Newburyport Avenue
Altamonte Springs FL 32701
Phone (407) 339-5994 Phone (407) 260-6110

Chain of Custody Record

eurofins

Client Information	Sampler: Pat Beers	Lab PM: Dylnicki, Kaitlin	Carrier Tracking No(s):	COC No: 870-24178-923a.1
Client Contact: David Beerbower	Phone: 407-740-6110	E-Mail: kaitlin.dylnicki@et.eurofinsusa.com	State of Origin: FL	Page: Page 1 of 1
Company: Terracon Consulting Eng & Scientists	PWSID:	Analysis Requested		Job #:
Address: 1675 Lee Road	Due Date Requested:			Preservation Codes: N - None O - HNO3 A - HCL
City: Winter Park	TAT Requested (days): Standard			
State, Zip: FL, 32789	Compliance Project: Δ Yes Δ No			
Phone: 407-628-8335(TEL)	PO #: H1247997			
Email: dsbeerbower@terracon.com	WO #: H1247997			
Project Name: Brevard County Parcel 102	Project #: 87005654			
Site: former SFMF 100	SSOW#:			Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270C_SIM - Polycyclic Aromatic Hydrocarbons	8260C_Calcd - Total Chlorinated Solvs	8015D - RCRA 4 EDR Metals	8260D - Standard 8260 List (includes MTBE)	8011 - EDB	300_ORGFM_28D - Chloride & Sulfate	FL_PRO - Total Petroleum Hydrocarbons	6010B - Arsen (SW/EPA, MTBE)	Total Number of containers	Special Instructions/Note:
Preservation Code:					X	X	N	N	O	A	A	N	A	A	X	
MW-4R	12/11/24	1217	G	Water			X	X	X	X	X	X	X			
MW-5R		1045		Water			X						X	X		
MW-6R		1136		Water			X						X	X		
DUP		1224		Water										X		
EQB		1059		Water										X		
TRIP BLANK				Water						X						

Possible Hazard Identification
Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Return To Client Disposal By Lab Archive For Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: Date: Time: Method of Shipment:

Relinquished by:	Date/Time: 12/11/24 1415	Company: Terracon	Received by: SC	Date/Time: 12/11/24 1415	Company: Eurofins
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 10.5 / 10.3

Ver: 05/08/2024

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 670-53097-1

Login Number: 53097
List Number: 1
Creator: Santiago, Edwin

List Source: Eurofins Orlando

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	