

# Phase II Environmental Site Assessment Report

## **900 Palmetto Street**

Clearwater, Pinellas County, Florida

Parcel ID No. 10-29-15-45000-006-0040

May 2023



*Prepared for:*



### **City Clearwater**

100 South Myrtle Avenue, #220  
Clearwater, FL 33756



# Phase II Environmental Site Assessment Report

Prepared for: **City of Clearwater**  
100 South Myrtle Avenue, #220  
Clearwater, FL 33756  
Attn: Joseph DeCicco

Project Name: **Phase II Environmental Site Assessment**  
900 Palmetto Street  
Clearwater, Pinellas County, Florida  
Parcel ID No. 10-29-15-45000-006-0040

Prepared by: **Stantec (formerly Cardno / Cardno now Stantec)**

Stantec Project No: 172608002

Date: May 4, 2023

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under Cooperative Agreement BF-02D09421*



# Table of Contents

<b>1</b>	<b>Executive Summary</b>	<b>1</b>
1.1	Purpose and Background	1
1.2	Scope Summary	1
1.3	Subsurface Investigation Results Summary	1
1.4	Conclusions	2
1.5	Recommendations	2
<b>2</b>	<b>Acronyms, Abbreviations, and Units of Measure</b>	<b>3</b>
<b>3</b>	<b>Introduction</b>	<b>4</b>
3.1	Site Description and Features	4
3.2	Operational History	4
3.3	Environmental Permits or Enforcement Actions	4
3.4	Known Spills or Releases	4
3.5	Previous Investigations and Interim Source Removal Activities	4
3.6	Special Terms and Conditions (User Reliance)	4
<b>4</b>	<b>Site Description &amp; Investigation Methodologies</b>	<b>6</b>
4.1	Sampling Objectives	6
4.1.1	Conceptual Site Model and Sampling Plan	6
4.1.2	Chemical Testing Plan/QAQC	6
4.2	Field Investigations and Methods	6
4.2.1	Soils	6
4.2.2	Shallow Groundwater	6
<b>5</b>	<b>Environmental Assessment Results</b>	<b>8</b>
5.1	Physical Setting and Subsurface Conditions	8
5.1.1	USGS Hydrogeological Data	8
5.1.2	Site-Specific Geology	8
5.1.3	Site-specific Groundwater Elevation Data	8
5.2	Shallow Groundwater Assessment Results	8
5.3	Laboratory Analyses Quality Control (QC) Observations and Interpretations	8
<b>6</b>	<b>Conclusions and Recommendations</b>	<b>9</b>
<b>7</b>	<b>Qualifications/Signatures of Environmental Professional(s)</b>	<b>10</b>

## Figures

1	USGS/ Site Vicinity Map
2	Study Area Map
3	Sampling Locations Map
4	Shallow Groundwater Elevation Map

## Tables

- 1 Groundwater Elevation Table
- 2 Groundwater Analytical Summary

## Appendices

- A Field Logs
- B Laboratory Analytical Reports

# 1 Executive Summary

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Stantec has completed a Phase II Environmental Site Assessment (ESA) of the property identified as the 900 Palmetto Street, Clearwater, Pinellas County, Florida (Parcel ID No. 10-29-15-45000-006-0040) on behalf of the City of Clearwater (the "Client"). The Client has been identified as the End User of this report; with the intended use of this Phase II ESA in support of an anticipated sales transaction. The assessed study area is herein referred to as "the subject property" or "the property." The property consists of approximately 0.18 acres of land (as depicted in **Figures 1 and 2**) and is currently undeveloped vacant land.

## 1.1 Purpose and Background

This assessment was prepared in general accordance with the American Society of Testing and Materials (ASTM) *Standard Practices for Environmental Site Assessments: Phase II ESA Process* (ASTM Designation: E1903-11). The purpose of this Phase II ESA was to evaluate the recognized environmental conditions (RECs) identified in the Phase I ESA, completed by Cardno now Stantec in November 2022, for the purpose of providing sufficient information regarding the nature and extent of contamination (if present) in the shallow subsurface.

The RECs identified in the Phase I ESA included a historical adjacent land use (auto repair); offering the potential for migrating contamination (petroleum and solvents).

The property was deemed eligible for Phase II ESA funding by EPA on April 11, 2023, and the Site-Specific Quality Assurance Project Plan (SS-QAPP) was approved April 19, 2023.

## 1.2 Scope Summary

To address the potential impacts associated with the REC, Phase II ESA activities included:

- Installation of subsurface borings at three (3) locations within the property boundaries at locations selected based on historical land uses, with extension of all of the borings for the installation of temporary groundwater monitor wells. Installation locations were based on the anticipated locations of subsurface impacts while considering the property's use, subsurface utilities and surface features.
- Collection of three groundwater samples for laboratory analysis for volatile organic compounds (VOCs), low-level polycyclic aromatic hydrocarbons (PAHs), the RCRA 8 metals, and total recoverable petroleum hydrocarbons (TRPH) via FL-PRO.
- Collection of groundwater elevation data, relative to an arbitrary benchmark, to assist in determining the shallow groundwater flow direction for the subject property.

## 1.3 Subsurface Investigation Results Summary

- Comparison of the laboratory analytical results to Chapter 62-777 FAC groundwater cleanup target levels (GCTLs) revealed no constituents in excess of their associated GCTLs.
- Groundwater flow direction across the property was calculated to be generally toward the east.

## **1.4 Conclusions**

No analyzed parameters were detected above applicable GCTLs in the groundwater samples collected from the three temporary wells installed and sampled as part of this investigation.

## **1.5 Recommendations**

Based on the results of this Phase II ESA, no additional assessment is recommended.

***This Executive Summary is a cursory summary of findings. The full report must be read in its entirety for a comprehensive understanding of these conclusions/recommendations.***

## 2 Acronyms, Abbreviations, and Units of Measure

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ASTM	American Society of Testing and Materials
aSCTL	Alternative Soil Cleanup Target Level
bls	Below Land Surface
BaP	Benzo(a)pyrene
CTL	Cleanup Target Level
DPT	Direct Push Technology
DTW	Depth-to-water
EPA	United States Environmental Protection Agency
ESA	Environmental Site Assessment
FAC	Florida Administrative Code
FDEP	Florida Department of Environmental Protection
ft	Feet
ft bls	Feet Below Land Surface
GCTL	Groundwater Cleanup Target Levels
mg/kg	Milligrams per kilogram
MW	Monitor well
NELAP	National Environmental Laboratory Accreditation Program
PE	Professional Engineer
PG	Professional Geologist
ppm	Parts per million
PAH	Polycyclic Aromatic Hydrocarbons
REC	Recognized Environmental Condition
RCRA	Resource Conservation Recovery Act
SB	Soil boring
SCTL	Soil Cleanup Target Level
SOP	Standard Operating Procedure
SSA	Supplemental Site Assessment
TOC	Top-of-casing
USDA	United States Department of Agriculture
USGS	United States Geological Survey
VOC	Volatile Organic Compounds

## 3 Introduction

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### 3.1 Site Description and Features

The subject property is located on the northeast corner of Palmetto Street and Vine Avenue in Clearwater, Pinellas County, Florida. The USGS / Site vicinity map and the site study area location are presented in **Figures 1 and 2**, respectively. The parcel identified as the subject property is listed below with its abbreviated legal description (as contained in County files):

- Parcel ID. 10-29-15-45000-006-0040 (900 PALMETTO ST CLEARWATER)  
JURGEN'S ADD TO CLEARWATER BLK F, LOTS 4 & 5

At the time of this investigation, the subject property was undeveloped, vacant land.

### 3.2 Operational History

The subject property was developed with a church and associated structure from 1949 until the structures were demolished (one in 2000 and the other in 2019).

### 3.3 Environmental Permits or Enforcement Actions

A file review conducted as part of the November 2022 Phase I ESA did not reveal any recorded environmental permits or enforcement actions associated with the subject property.

### 3.4 Known Spills or Releases

A review of agency documentation conducted as part of the November 2022 Phase I ESA revealed no documented spills or releases associated with the subject property.

### 3.5 Previous Investigations and Interim Source Removal Activities

Other than the Phase I ESA previously mentioned, no other previous assessments have been identified or provided.

### 3.6 Special Terms and Conditions (User Reliance)

No ESA can eliminate all uncertainty. Furthermore, any sample, either surface or subsurface, taken for chemical analysis may or may not be representative of a larger population. Professional judgment and interpretation are inherent in the process and uncertainty is inevitable. Additional assessment may be able to reduce the uncertainty. Even when Phase II ESA work is executed with an appropriate site-specific standard of care, certain conditions present especially difficult detection problems. Such conditions may include, but are not limited to, complex geological settings, the fate and transport characteristics of certain hazardous substances and petroleum products, the distribution of existing contamination, physical limitations imposed by the location of utilities and other man-made objects, and the limitations of assessment technologies.

Phase II ESAs do not generally require an exhaustive assessment of environmental conditions on a property. There is a point at which the cost of information obtained, and the time required to obtain it outweigh the usefulness of the information and, in fact, may be a material detriment to the orderly completion of transactions. If hazardous substance or petroleum releases are confirmed on a parcel of property, the extent of further assessment is related to the degree of uncertainty that is acceptable to the user with respect to the real estate transaction. Measurements and sampling data only



represent the site conditions at the time of data collection. Therefore, the usability of data collected as part of this Phase II ESA may have a finite lifetime depending on the application and use being made of the data. An environmental professional should evaluate whether the generated data are appropriate for any subsequent use beyond the original purpose for which it was collected.

This report is for the use and benefit of and may be relied upon by the entity(s) identified in the Executive Summary of this report as the Client, as well as any of its affiliates and their respective successors and assigns, in connection with a commercial real estate transaction involving the property, and in accordance with the terms and conditions in place between Stantec and the Client for this project. Any third party agrees by accepting this report that any use or reliance on this report shall be limited by the exceptions and limitations in this report, and with the acknowledgment that actual site conditions may change with time, and that hidden conditions may exist at the property that were not discovered within the authorized scope of the assessment. Any use by or distribution of this report to third parties, without the express written consent of Stantec is at the sole risk and expense of such third party.

Stantec makes no other representation to any third party except that it has used the degree of care and skill ordinarily exercised by environmental consultants in the preparation of the report and in the assembling of data and information related thereto. No other warranties are made to any third party, either expressed or implied.

## 4 Site Description & Investigation Methodologies

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### 4.1 Sampling Objectives

#### 4.1.1 Conceptual Site Model and Sampling Plan

The conceptual site model considered the on-site and nearby land uses (particularly the off-site historical auto repair facility). Potential distribution of contaminants, as well as the anticipated fate and transport characteristics of contaminants in the setting being assessed were also considered. The sampling plan was designed to provide for the collection of potentially contaminated environmental media, at locations and depths where the highest concentrations are likely to occur in consideration of suspected utility locations.

The sampling plan developed for this project was based solely upon information provided in the November 2022 Phase I ESA.

#### 4.1.2 Chemical Testing Plan/QAQC

The chemical testing plan was designed to detect the contaminants suspected to be present in the samples collected. This testing plan included tests which provide quality assurance (QA) and techniques that provide quality control (QC) over the chemical analysis. A completed chain of custody record accompanied each sample shipment to the analytical laboratory. Chain of custody records provide written documentation regarding sample collection and handling, identify the persons involved in the chain of sample possession, and a written record of requested analytical parameters.

### 4.2 Field Investigations and Methods

#### 4.2.1 Soils

On April 20 and 21, 2023, Stantec supervised a licensed drilling contractor during the advancement of three soil borings at the locations presented in **Figure 3**. Borings were advanced using a combination of hand auger and direct push technology (DPT) drilling methods to boring completion depth, as well as installation of temporary monitoring wells for groundwater sample collection.

The three soil borings were advanced to an estimated depth of 13 feet bls to facilitate lithology characterization, field screening for potential environmental impacts as well as the proper collection of groundwater samples from a representative portion of the shallow groundwater aquifer.

Field logs, calibration logs, and boring logs are provided in **Appendix A**. Field activities conducted were performed in accordance with applicable FDEP Standard Operating Procedures (DEP-SOP 001/01) and the EPA-approved site-specific Quality Assurance Project Plan (approved April 19, 2023).

#### 4.2.2 Shallow Groundwater

On April 20, 2023, Stantec supervised a licensed drilling contractor during the installation of three shallow temporary monitoring wells (TMW-1 through TMW-3) to 13 ft bls at the locations presented in **Figure 3**.

Depth to groundwater measurements were recorded at each temporary monitoring well immediately preceding well purging and sampling. Each well was completed with 1-inch schedule 40 PVC along with 10 feet of prepack 0.01-slot well screen set from an estimated depth of 3 to 13 feet bls to bisect the top of the water table which was encountered at a depth of five to six feet bls. Each well was developed using a properly decontaminated pump for approximately 30 minutes or until a relatively sediment free discharge was produced... Personnel surveyed the top of well casing elevation at each location and the water levels were converted to groundwater elevations by subtracting the depth to water from the top of casing elevation for each well. The depth-to-water (DTW) was measured to compare to the TOC data to assist in estimating a site-specific shallow groundwater flow direction.

Each well was sampled the following day (April 21, 2023) 24 hours after completion of well development. Groundwater purge and sampling activities were performed in strict accordance with FDEP protocols and SOPs. Each groundwater sample was analyzed by a State of Florida approved laboratory for the analysis as follows:

- Volatile Organic Compounds via EPA Analytical Method 8260B
- Low level PAHs via EPA Analytical Method 8270C
- 8 RCRA Metals via EPA Analytical Method 6010/7471
- Total Recoverable Petroleum Hydrocarbons (TRPH) via FL-PRO

Once groundwater sampling was complete, Stantec properly abandoned (by removal) each of the three temporary monitoring wells. Each of the boreholes advanced during this assessment were backfilled and compacted to match existing grade using the soil cuttings generated at each drilling location.

## 5 Environmental Assessment Results

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### 5.1 Physical Setting and Subsurface Conditions

#### 5.1.1 USGS Hydrogeological Data

Hydrogeological resources were examined to identify the probable direction of surface water and shallow groundwater flow at the site as part of the Phase I ESA investigation. The USGS Clearwater, Florida 7.5-minute series topographic map produced in 2018 was reviewed. The map shows the site being located at an elevation of 23 feet above mean sea level. Based on map topography contours, the inferred primary direction of groundwater flow for the immediate vicinity of the subject site is generally toward the east. The USGS Topographic Map is included as **Figure 1**.

#### 5.1.2 Site-Specific Geology

Site-specific geological data collected as part of this investigation during boring installation revealed primarily fine-grain sands above the water table and clayey-sand or clay within the water table. The water table was encountered five to six feet below land surface.

#### 5.1.3 Site-specific Groundwater Elevation Data

Groundwater levels were measured on April 21, 2023, and DTW measurements and groundwater elevations, calculated with surveyed TOC referenced to an arbitrary datum. Groundwater contours and the inferred groundwater flow direction are presented on **Table 1** and depicted on **Figure 4**. For the recent sampling event, the direction of groundwater flow was generally to the east.

### 5.2 Shallow Groundwater Assessment Results

A comparison of the laboratory analytical results of the collected shallow groundwater samples to GCTLs is presented in **Table 2**. The temporary monitor well locations are depicted on **Figure 3**. Laboratory analysis revealed no impacts in excess of GCTLs.

### 5.3 Laboratory Analyses Quality Control (QC) Observations and Interpretations

No significant QA/QC issues were encountered by the laboratory. All samples were received in good condition, with all spikes and surrogates were recovered within established limits; and all method-specified holding times were met. Minor exceptions noted on select quality control batch samples were primarily attributed to matrix interference and did not affect data quality or usability.

Laboratory Analytical Reports are included as **Appendix B**.

## 6 Conclusions and Recommendations

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Based upon the results from this Phase II ESA, the subject property does not appear to have been adversely impacted by the adjacent historical auto repair facility (the REC identified in the recently completed Phase I ESA). As such, no additional assessment is recommended at this time.

## 7 Qualifications/Signatures of Environmental Professional(s)

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This *Phase II Site Assessment Report* was prepared for the City of Clearwater.

I have checked all data and calculations presented herein for accuracy and the basis for all conclusions and recommendations have been described. I further certify, this document meets or exceeds Stantec's standards for editorial content, technical accuracy, and quality assurance verification.

**Prepared by:**

  
Shawn Lasseter  
Senior Project Manager  
Stantec

*With assistance by Alexander Jones, Staff Geologist*

**QA/QC by:**

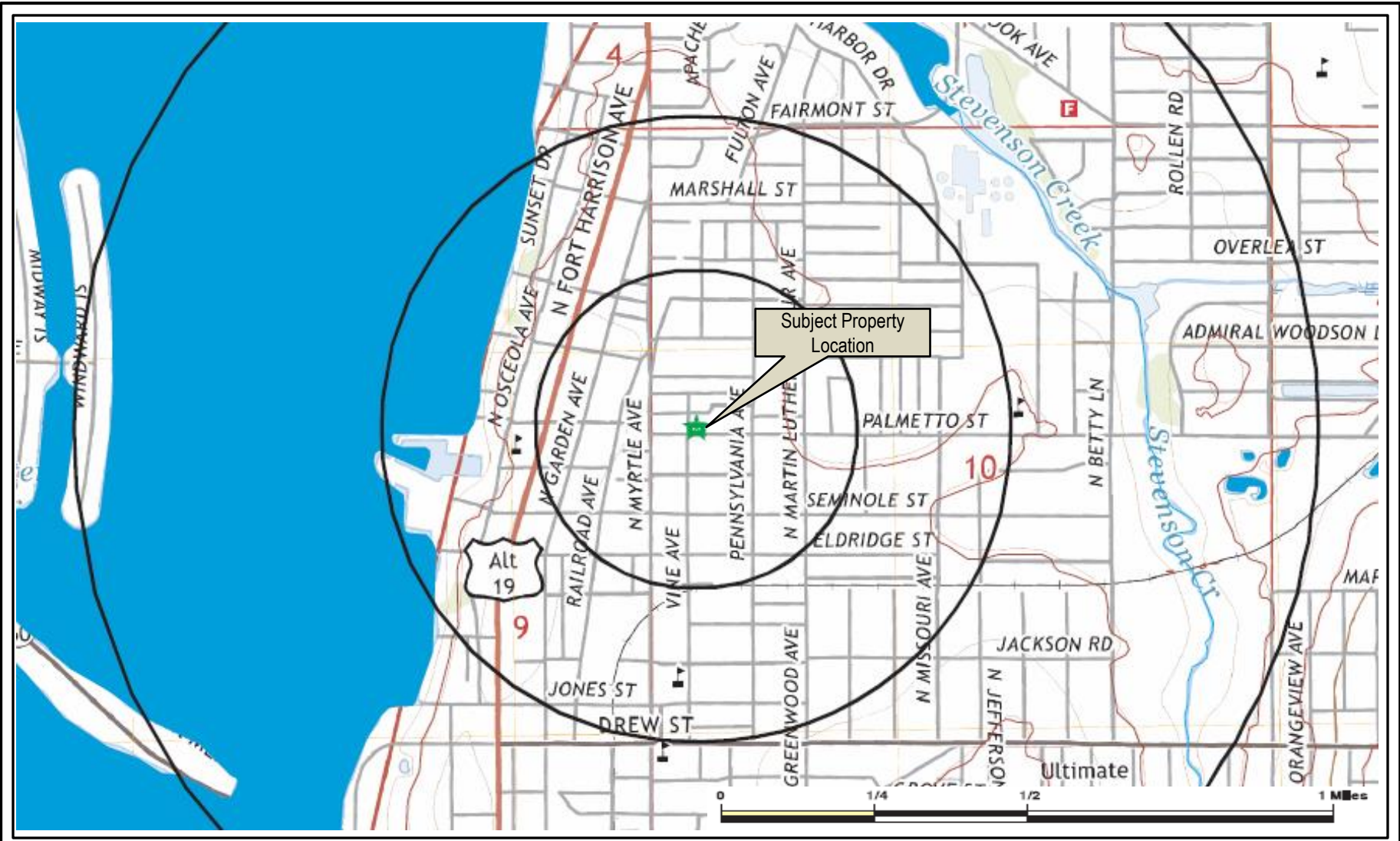
I, Andrew Long, PG, certify that I currently hold an active license in the State of Florida and am competent through education or experience to provide the engineering service contained in this *Phase II Site Assessment Report*. I further certify that in my professional judgment, this report meets the general requirements of ASTM Method E 1903-21, Standard Guide for Environmental Site Assessments: Phase II Environmental Site Assessment Process.

  
Andrew Long

Date: May 4, 2023

# Figures

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Subject Property Location



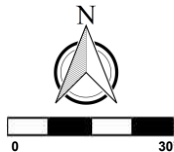
**900 Palmetto Street**  
 Clearwater, Pinellas County, Florida  
 Parcel ID No. 10-29-15-45000-006-0040

**Figure 1**  
**USGS/Site Vicinity Map**



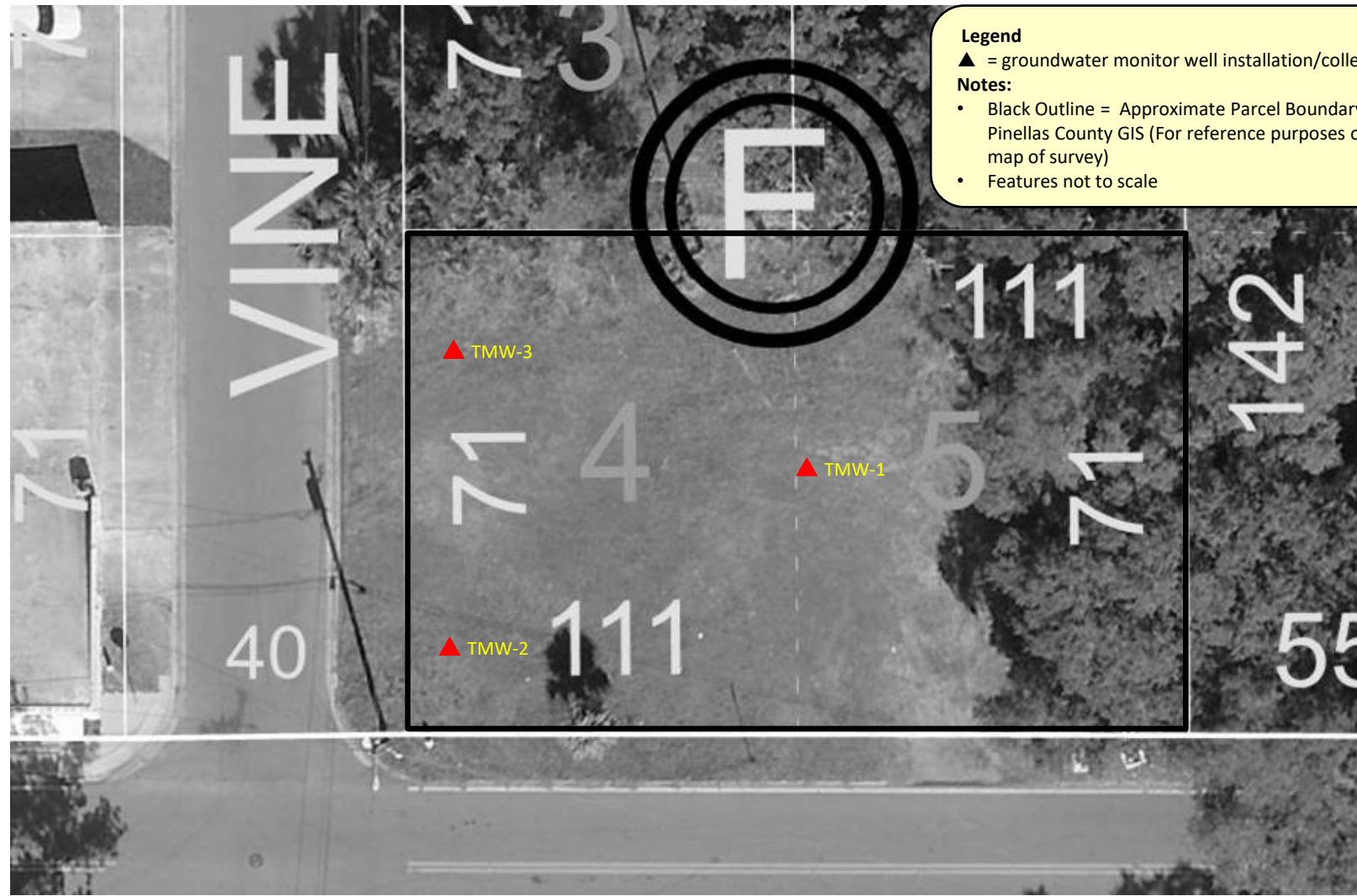
**Legend:** Shaded Green Area = Approximate Site Boundaries (For reference purposes only, not a map of survey)

**Map with Parcel Lines Source:** Pinellas County GIS



**900 Palmetto Street**  
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**Figure 2**  
**Study Area Map**



**Legend**  
▲ = groundwater monitor well installation/collection location

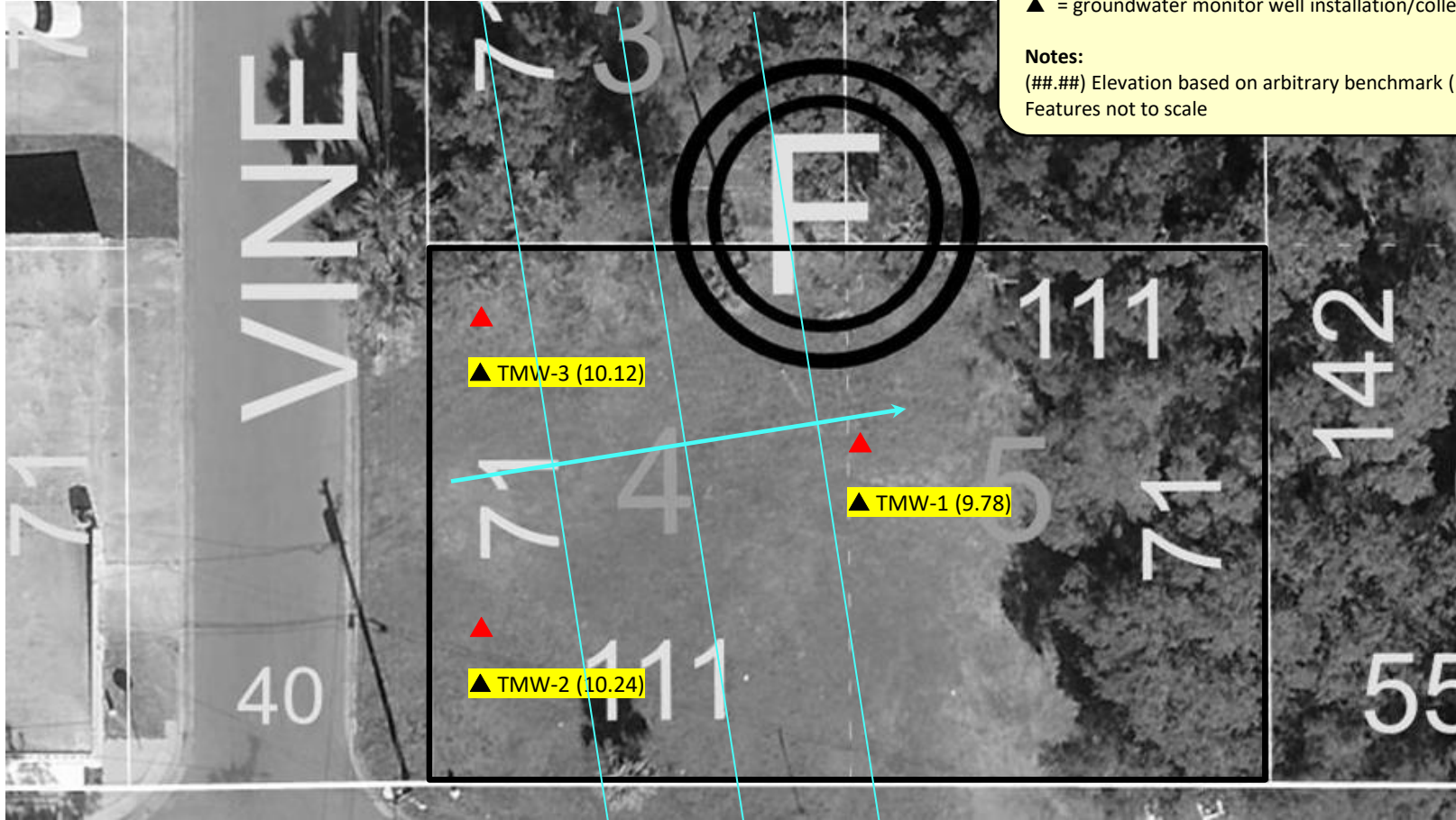
**Notes:**

- Black Outline = Approximate Parcel Boundary. Source: Pinellas County GIS (For reference purposes only, not a map of survey)
- Features not to scale



**900 Palmetto Street**  
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**Figure 3**  
**Sampling**  
**Locations Map**



**Legend**  
 ▲ = groundwater monitor well installation/collection location

**Notes:**  
 (##.##) Elevation based on arbitrary benchmark (not MSL)  
 Features not to scale

▲ TMW-3 (10.12)

▲ TMW-1 (9.78)

▲ TMW-2 (10.24)

10.0      9.9      9.8



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**Figure 4**  
**Shallow Groundwater**  
**Elevation Map (04/21/2023)**

# Tables

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**TABLE 1 - GROUNDWATER ELEVATION SUMMARY**

Facility Name: 900 Palmetto Street, Clearwater, FL

Well No.	TMW-1			TMW-2			TMW-3		
Diameter (in)	1			1			1		
Well Depth (ft)	13			13			13		
Screen Interval (ft)	3-13			3-13			3-13		
TOC Elevation (ft)	16.42			15.99			16.2		
Land Surface (ft)	13.58			14.72			14.7		
Stickup Height (ft)	2.84			1.27			1.5		
Date	ELEV	DTW	DTNAPL	ELEV	DTW	DTNAPL	ELEV	DTW	DTNAPL
4/21/2023	9.78	6.64	NA	10.24	5.75	NA	10.12	6.08	NA

**Notes:**

All measurements are in feet unless noted otherwise

DTW = Depth to water from TOC

ELEV = Water table elevation based on TOC Elevation

NA = Not Available/Applicable.

TOC = Top of Casing

TOC Elevation = Elevation based on arbitrary benchmark

**TABLE 2: GROUNDWATER ANALYTICAL SUMMARY**

Facility Name: 900 Palmetto Street, Clearwater, FL

Location			GCTLs	NADCs	TMW-1		TMW-2		TMW-3	
Date					4/21/2023		4/21/2023		4/21/2023	
CAS No	Analyte	Units			Result	Qualifier	Result	Qualifier	Result	Qualifier
7440-38-2	Arsenic	ug/L	10	100	0.65	U	1.7	i	1.1	i
7440-39-3	Barium	ug/L	2000	**	9.4		13		14	
7440-43-9	Cadmium	ug/L	5	50	0.28	U	0.28	U	0.28	U
7440-47-3	Chromium	ug/L	100	1000	0.27	U	0.31	i	1.4	i
7439-92-1	Lead	ug/L	15	150	1.2	U	1.2	U	1.2	U
7439-97-6	Mercury	ug/L	2	**	0.73	U	0.73	U	0.73	U
7782-49-2	Selenium	ug/L	50	**	2.1	U	2.1	U	2.1	U
7440-22-4	Silver	ug/L	100	**	0.8	U	0.8	U	0.8	U
EPA 8260C										
630-20-6	1,1,1,2-Tetrachloroethane	ug/L	1.3	130	0.4	U	0.4	U	0.4	U
71-55-6	1,1,1-Trichloroethane	ug/L	200	**	0.4	U	0.4	U	0.4	U
79-34-5	1,1,2,2-Tetrachloroethane	ug/L	0.2	20	0.2	U	0.2	U	0.2	U
79-00-5	1,1,2-Trichloroethane	ug/L	5	***	0.4	U	0.4	U	0.4	U
75-34-3	1,1-Dichloroethane	ug/L	70**	700	0.4	U	0.4	U	0.4	U
75-35-4	1,1-Dichloroethene	ug/L	7**	**	0.4	U	0.4	U	0.4	U
563-58-6	1,1-Dichloropropene	ug/L			0.4	U	0.4	U	0.4	U
87-61-6	1,2,3-Trichlorobenzene	ug/L	70	700	0.4	U	0.4	U	0.4	U
96-18-4	1,2,3-Trichloropropane	ug/L	0.02	2	0.4	U	0.4	U	0.4	U
120-82-1	1,2,4-Trichlorobenzene	ug/L	70	**	1	U	1	U	1	U
95-63-6	1,2,4-Trimethylbenzene	ug/L	10	100	0.4	U	0.4	U	0.4	U
96-12-8	1,2-DBCP	ug/L	0.2		0.55	U	0.55	U	0.55	U
106-93-4	1,2-Dibromoethane (EDB)	ug/L	0.02	2	0.4	U	0.4	U	0.4	U
95-50-1	1,2-Dichlorobenzene	ug/L	600	**	0.4	U	0.4	U	0.4	U
107-06-2	1,2-Dichloroethane	ug/L	3	300	0.4	U	0.4	U	0.4	U
78-87-5	1,2-Dichloropropane	ug/L	5	***	0.4	U	0.4	U	0.4	U
108-67-8	1,3,5-Trimethylbenzene	ug/L	10	100	0.4	U	0.4	U	0.4	U
541-73-1	1,3-Dichlorobenzene	ug/L	210	2100	0.4	U	0.4	U	0.4	U
142-28-9	1,3-Dichloropropane	ug/L			0.4	U	0.4	U	0.4	U
106-46-7	1,4-Dichlorobenzene	ug/L	75	***	0.4	U	0.4	U	0.4	U
594-20-7	2,2-Dichloropropane	ug/L			0.4	U	0.4	U	0.4	U
95-49-8	2-Chlorotoluene	ug/L	140	1400	0.4	U	0.4	U	0.4	U
591-78-6	2-Hexanone	ug/L	280	2800	0.4	U	0.4	U	0.4	U
106-43-4	4-Chlorotoluene	ug/L	140	1400	0.4	U	0.4	U	0.4	U
99-87-6	4-Isopropyltoluene	ug/L			0.4	U	0.4	U	0.4	U
108-10-1	4-methyl-2-pentanone	ug/L	560	5600	0.4	U	0.4	U	0.4	U
67-64-1	Acetone	ug/L	6300	63000	5	U	5	U	5	U
107-02-8	Acrolein	ug/L	3.5	35	8.7	U	8.7	U	8.7	U
107-13-1	Acrylonitrile	ug/L	0.06	6	4.2	U	4.2	U	4.2	U
71-43-2	Benzene	ug/L	1	100	0.4	U	0.4	U	0.4	U
108-86-1	Bromobenzene	ug/L			0.4	U	0.4	U	0.4	U
74-97-5	Bromochloromethane	ug/L	91	910	0.4	U	0.4	U	0.4	U
75-27-4	Bromodichloromethane	ug/L	0.6	60	0.4	U	0.4	U	0.4	U
75-25-2	Bromoform	ug/L	4.4	440	0.55	U	0.55	U	0.55	U
74-83-9	Bromomethane	ug/L	9.8	98	4	U	4	U	4	U
75-15-0	Carbon disulfide	ug/L	700	7000	0.4	U	0.4	U	0.4	U
56-23-5	Carbon tetrachloride	ug/L	3	***	0.4	U	0.4	U	0.4	U
108-90-7	Chlorobenzene	ug/L	100	**	0.4	U	0.4	U	0.4	U
75-00-3	Chloroethane	ug/L	12	1200	0.4	U	0.4	U	0.4	U
67-66-3	Chloroform	ug/L	70	700	0.4	U	0.4	U	0.4	U
74-87-3	Chloromethane	ug/L	2.7	270	2.5	U	2.5	U	2.5	U
156-59-2	cis-1,2-Dichloroethene	ug/L	70	**	0.4	U	0.4	U	0.4	U
10061-01-5	cis-1,3-Dichloropropene	ug/L			0.4	U	0.4	U	0.4	U
1476-11-5	cis-1,4-Dichloro-2-butene	ug/L			0.44	U	0.44	U	0.44	U
124-48-1	Dibromochloromethane	ug/L	0.4	40	0.4	U	0.4	U	0.4	U
74-95-3	Dibromomethane	ug/L	70	700	0.4	U	0.4	U	0.4	U
75-71-8	Dichlorodifluoromethane	ug/L	1400	14000	0.4	U	0.4	U	0.4	U
97-63-2	Ethyl methacrylate	ug/L	630	6300	0.4	U	0.4	U	0.4	U
100-41-4	Ethylbenzene	ug/L	30	300	0.4	U	0.4	U	0.4	U
87-68-3	Hexachlorobutadiene	ug/L	0.4	40	1	U	1	U	1	U
74-88-4	Iodomethane	ug/L			0.46	U	0.46	U	0.46	U
98-82-8	Isopropylbenzene (Cumene)	ug/L	0.8	8	0.4	U	0.4	U	0.4	U
1330-20-7	m & p-xylene	ug/L			0.4	U	0.4	U	0.4	U
78-93-3	Methyl ethyl ketone (MEK)	ug/L	4200	42000	0.64	U	0.64	U	0.64	U

Facility Name: 900 Palmetto Street, Clearwater, FL

Location			GCTLs	NADCs	TMW-1		TMW-2		TMW-3		
Date	CAS No	Analyte			Units	4/21/2023		4/21/2023		4/21/2023	
					Result	Qualifier	Result	Qualifier	Result	Qualifier	
75-09-2		Methylene chloride	ug/L	5	2	U	2	U	2	U	
91-20-3		Naphthalene	ug/L	14**	140	2	U	2	U	2	U
104-51-8		n-Butylbenzene	ug/L		0.4	U	0.4	U	0.4	U	
103-65-1		n-propylbenzene	ug/L		0.4	U	0.4	U	0.4	U	
95-47-6		o-Xylene	ug/L		0.4	U	0.4	U	0.4	U	
135-98-8		sec-Butylbenzene	ug/L		2800	0.4	U	0.4	U	0.4	U
100-42-5		Styrene	ug/L	100	**	0.4	U	0.4	U	0.4	U
110-57-6		t-1,4-Dichloro-2-butene	ug/L		0.41	U	0.41	U	0.41	U	
1634-04-4		tert-Butyl methyl ether (MTBE)	ug/L	20	200	0.4	U	0.4	U	0.4	U
98-06-6		tert-Butylbenzene	ug/L		0.4	U	0.4	U	0.4	U	
127-18-4		Tetrachloroethene	ug/L	3	***	0.4	U	0.4	U	0.4	U
108-88-3		Toluene	ug/L	40	400	0.4	U	0.4	U	0.4	U
156-60-5		trans-1,2-Dichloroethene	ug/L	100	**	0.4	U	0.4	U	0.4	U
10061-02-6		trans-1,3-Dichloropropene	ug/L		0.4	U	0.4	U	0.4	U	
79-01-6		Trichloroethene	ug/L	3		0.4	U	0.4	U	0.4	U
75-69-4		Trichlorofluoromethane	ug/L	2100	21000	0.4	U	0.4	U	0.4	U
108-05-4		Vinyl acetate	ug/L	88	880	0.4	U	0.4	U	0.4	U
75-01-4		Vinyl chloride	ug/L	1		0.4	U	0.4	U	0.4	U
1330-20-7		Xylenes- Total	ug/L	20	200	0.8	U	0.8	U	0.8	U
EPA 8270/PAH SIM											
90-12-0		1-Methylnaphthalene	ug/L	28	280	0.05	U	0.05	U	0.05	U
91-57-6		2-Methylnaphthalene	ug/L	28	280	0.05	U	0.05	U	0.05	U
83-32-9		Acenaphthene	ug/L	20	200	0.025	U	0.025	U	0.025	U
208-96-8		Acenaphthylene	ug/L	210	2100	0.025	U	0.025	U	0.025	U
120-12-7		Anthracene	ug/L	2100	21000	0.025	U	0.025	U	0.025	U
56-55-3		Benzo(a)anthracene	ug/L	0.05	5	0.025	U	0.025	U	0.025	U
50-32-8		Benzo(a)pyrene	ug/L	0.2	20	0.015	U	0.015	U	0.015	U
205-99-2		Benzo(b)fluoranthene	ug/L	0.05	5	0.015	U	0.015	U	0.015	U
191-24-2		Benzo(g,h,i)perylene	ug/L	210	2100	0.015	U	0.015	U	0.015	U
207-08-9		Benzo(k)fluoranthene	ug/L	0.5	50	0.015	U	0.015	U	0.015	U
218-01-9		Chrysene	ug/L	4.8	480	0.025	U	0.025	U	0.025	U
53-70-3		Dibenzo(a,h)anthracene	ug/L	0.005	0.5	0.005	U	0.005	U	0.005	U
206-44-0		Fluoranthene	ug/L	280	2800	0.025	U	0.025	U	0.025	U
86-73-7		Fluorene	ug/L	280	2800	0.025	U	0.025	U	0.025	U
193-39-5		Indeno(1,2,3-cd)pyrene	ug/L	0.05	5	0.015	U	0.015	U	0.015	U
91-20-3		Naphthalene	ug/L	14**	140	0.05	U	0.05	U	0.05	U
85-01-8		Phenanthrene	ug/L	210	2100	0.2	U	0.2	U	0.2	U
129-00-0		Pyrene	ug/L	210	2100	0.025	U	0.025	U	0.025	U
FL-PRO (GC)											
FL.PRO.TO	Total Recoverable Petroleum Hydrocarbons (TRPH)		mg/L	5	50	0.4	U	0.4	U	0.4	U

Notes:

GCTLs = Groundwater Cleanup Target Levels specified in Table I of Chapter 62-777, F.A.C. 4/17/2005

NADCs = Natural Attenuation Default Concentrations - Groundwater Criteria specified in Table V of Chapter 62-777, F.A.C. 4/17/2005

GCTL indicates concentration exceeds GCTL

NADC indicates concentration exceeds NADC

I = Estimated value, between laboratory reporting limit and method detection limit

U = Indicates that the compound was analyzed for but not detected above the method detection limit (MDL).

**Bold** Bold results denote analyte was detected above the laboratory method detection limit

\* = As provided in Chapter 62-520, F.A.C. 4/17/2005

\*\* = As provided in Chapter 62-520, F.A.C. 4/17/2005, multiplied by 10X

\*\*\* = As provided in Chapter 62-520, F.A.C. 4/17/2005, multiplied by 100X

# **Appendix A**

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## **Field Logs**



# BORING LOG

Boring/Well Number: <b>TMW-1</b>		Permit Number:		FDEP Facility Identification Number:	
Site Name: <b>900 Palmetto St</b>		Borehole Start Date: <b>4/20/23</b>		Borehole Start Time: <b>9:35</b> <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	
		End Date: <b>4/20/23</b>		End Time: <b>9:55</b> <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	
Environmental Contractor: <b>Stanku (Gardno, Inc)</b>		Geologist's/Engineer's Name: <b>Alex Jones</b>		Environmental Technician's Name: <b>—</b>	
Drilling Company: <b>Net</b>		Pavement Thickness (inches): <b>6' 6.5</b>		Borehole Diameter (inches): <b>2</b>	
				Borehole Depth (feet): <b>13</b>	
Drilling Method(s): <b>HA/DP</b>		Apparent Borehole DTW (in feet from soil moisture content): <b>4</b>		Measured Well DTW (in feet after water recharges in well):	
				OVA (list model and check type): <b>Phocheck Tiger</b> <input type="checkbox"/> FID <input checked="" type="checkbox"/> PID	
Disposition of Drill Cuttings [check method(s)]: <input type="checkbox"/> Drum <input checked="" type="checkbox"/> Spread <input type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other					
(describe if other or multiple items are checked):					
Borehole Completion (check one): <input checked="" type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA ↓ DP ↓	0-1	8					1	Sand, fine, gray	SM	M	
	1-2	8					2	Sand, medium, light gray/white	SM	W	
	2-3	8					3				
	3-4	8					4	water table 4' ±		W	
	4-5	8					5	Sand, medium, dk gray	SM	S	
	5-6	8					6	Sand, brown, medium		S	
	6-7	8					7	Clay-sand, gray	ML	W	
	7-8	8					8	Clay, sandy, very soft	ML	S	
	8-9	8					9				
	9-10	8					10				
	10-11	8					11	Sand, with clay, 6000 13'	SC	W	
	11-12	8					12	Sand, with little clay, very saturated	SC	S	

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings  
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

# BORING LOG

Boring/Well Number: <b>TMW-2</b>		Permit Number:		FDEP Facility Identification Number:	
Site Name: <b>900 Palmetto St</b>		Borehole Start Date: <b>4/20/23</b> End Date: <b>4/20/23</b>		Borehole Start Time: <b>1010</b> <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM End Time: <b>1030</b> <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM	
Environmental Contractor: <b>Cardno, Inc.</b>		Geologist's/Engineer's Name: <b>Alex Jones</b>		Environmental Technician's Name: <b>—</b>	
Drilling Company: <b>Net</b>		Pavement Thickness (inches): <b>3/4</b>		Borehole Diameter (inches): <b>2</b>	
Drilling Method(s): <b>HA/DP</b>		Apparent Borehole DTW (in feet from soil moisture content): <b>4</b>		Measured Well DTW (in feet after water recharges in well):	
Disposition of Drill Cuttings [check method(s)]:		<input type="checkbox"/> Drum <input checked="" type="checkbox"/> Spread <input type="checkbox"/> Backfill		<input type="checkbox"/> Stockpile <input type="checkbox"/> Other	
(describe if other or multiple items are checked):		Borehole Completion (check one): <input checked="" type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)			

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA            DP	0-1	8					1	Sandy fine, gray	SM	M	
	1-2	8					2	Sand, medium, light gray	SM	W	
	2-3	8					3				
	3-4	8					4	Sand, medium, brown water table 4'	SM	S	
	4-5	8					5	Sand, medium, tan		S	
	5-6						6	Sand, with little clay, gray	SC	S	
	6-7						7	Clay, sandy	ML	W	
	7-8						8	Clay-sand mix, very soft, gray	ML	S	
	8-9						9				
	9-10						10	Clay, gray, brittle	CL	W	
	10-11						11				
	11-12						12	Clay, gray, hard, little sand E082131	CL	M	

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings  
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

# BORING LOG

Boring/Well Number: Tmw-3		Permit Number:		FDEP Facility Identification Number:	
Site Name: 900 Palmetto St.		Borehole Start Date: 4/20/23 End Date: 4/20/23		Borehole Start Time: 1040 AM End Time: 1100 AM	
Environmental Contractor: Stante (Cardno, Inc.)		Geologist's/Engineer's Name: Alex Jones		Environmental Technician's Name:	
Drilling Company: NET		Pavement Thickness (inches): 9.05		Borehole Diameter (inches): 2	
Drilling Method(s): HA/DP		Apparent Borehole DTW (in feet from soil moisture content): 4		Measured Well DTW (in feet after water recharges in well):	
OVA (list model and check type): Phocheck Tiger <input type="checkbox"/> FID <input checked="" type="checkbox"/> PID					
Disposition of Drill Cuttings [check method(s)]: <input type="checkbox"/> Drum <input checked="" type="checkbox"/> Spread <input type="checkbox"/> Backfill <input type="checkbox"/> Stockpile <input type="checkbox"/> Other (describe if other or multiple items are checked):					
Borehole Completion (check one): <input checked="" type="checkbox"/> Well <input type="checkbox"/> Grout <input type="checkbox"/> Bentonite <input type="checkbox"/> Backfill <input type="checkbox"/> Other (describe)					

Sample Type	Sample Depth Interval (feet)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA ↓ DP ↓	0-1	8					1	Sand, fine, gray	SM	W	
	1-2	8					2	Sand, medium, light gray	SM	W	
	2-3	8					3				
	3-4	8					4	Sand, medin, brown water table = 4' ±	SM	W	
	4-5	8					5	Sand, medium, tan	SM	S	
	5-6						6				
	6-7						7	clay with sand, gray	ML	W	
	7-8						8	clay, gray, very soft sandy	CL	S	
	8-9						9				
	9-10						10				
	10-11						11				
	11-12						12	Clay, sm, brittle EOB 2/3'	CL	M	

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings  
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

## NEW WELL CONSTRUCTION LOG

This document is subject to change. Please select the appropriate option for each section that pertains to the well construction. For a description of the Florida Department of Environmental Protection Locational Data Standard please refer to the *Locational Data Standard* Microsoft Word document located at [www.dep.state.fl.us/waste/categories/pcr/pg\\_documents.htm](http://www.dep.state.fl.us/waste/categories/pcr/pg_documents.htm) Petroleum Restoration Program requires a minimum of Rank 3 accuracy or better for the well location data.

WELL CONSTRUCTION DATA					
Well Number: FMW-1		Site Name: 900 Palmetto St		FDEP Facility I.D. Number:	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input checked="" type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input type="checkbox"/> Perched Monitoring <input checked="" type="checkbox"/> Shallow (Water-Table) Monitoring <input checked="" type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Date: 4/20/23	
If AG, list feet of riser above land surface: 2.84				Well Install Method: Hollowstem/DP	
Borehole Depth (feet): 13		Well Depth (feet): 13		Well Pad Size: NA feet by NA feet	
Borehole Diameter (inches): 2		Manhole Diameter (inches): NA			
Riser Diameter and Material: inches: 1 PVC		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)		Riser Length: 3 feet from 0 feet to 3 feet	
Screen Diameter and Material: inches: 1 PVC		Screen Slot Size: 0.01		Screen Length: 10 feet from 3 feet to 13 feet	
1 <sup>st</sup> Surface Casing Material: also check: <input type="checkbox"/> Permanent <input checked="" type="checkbox"/> Temporary		1 <sup>st</sup> Surface Casing I.D. (inches):		1 <sup>st</sup> Surface Casing Length: ___ feet from 0 feet to ___ feet	
2 <sup>nd</sup> Surface Casing Material: also check: <input type="checkbox"/> Permanent <input checked="" type="checkbox"/> Temporary		2 <sup>nd</sup> Surface Casing I.D. (inches):		2 <sup>nd</sup> Surface Casing Length: ___ feet from 0 feet to ___ feet	
3 <sup>rd</sup> Surface Casing Material: also check: <input type="checkbox"/> Permanent <input checked="" type="checkbox"/> Temporary		3 <sup>rd</sup> Surface Casing I.D. (inches):		3 <sup>rd</sup> Surface Casing Length: ___ feet from 0 feet to ___ feet	
Filter Pack Material and Size: 20-30 sand		Prepacked Filter Around Screen (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Filter Pack Length: 11 feet from 2 feet to 13 feet	
Filter Pack Seal Material and Size: 30-65 finesand				Filter Pack Seal Length: 2 feet from 0 feet to 2 feet	
Surface Seal Material: 30-65 Sand		Status Code: Strikeup temp well		Surface Seal Length: ___ feet from ___ feet to ___ feet	

WELL DEVELOPMENT DATA			
Well Development Date: 4/20/23		Well Development Method (check one): <input checked="" type="checkbox"/> Surge/Pump <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)	
Development Pump Type (check): <input checked="" type="checkbox"/> Submersible <input type="checkbox"/> Centrifugal <input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet) (BLS): TOC: 8.37 - 2.84 = 5.53	
Pumping Rate (gallons per minute): 0.09		Maximum Drawdown of Groundwater During Development (feet): 3.59	Well Purged Dry (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Pumping Condition (check one): <input checked="" type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	Total Development Water Removed (gallons): 3	Development Duration (minutes): 35	Development Water Drummed (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Water Appearance (color and odor) At Start of Development: Clear		Water Appearance (color and odor) At End of Development: Clear	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS	
Start: 1035	Well almost dry, pulling water from bottom
Stop: 1110	11.76

## NEW WELL CONSTRUCTION LOG

This document is subject to change. Please select the appropriate option for each section that pertains to the well construction. For a description of the Florida Department of Environmental Protection Locational Data Standard please refer to the *Locational Data Standard* Microsoft Word document located at: [www.dep.state.fl.us/waste/categories/pcp/pg\\_documents.htm](http://www.dep.state.fl.us/waste/categories/pcp/pg_documents.htm). Petroleum Restoration Program requires a minimum of Rank 3 accuracy or better for the well location data.

WELL CONSTRUCTION DATA					
Well Number: <u>IMW-2</u>		Site Name: <u>900 Palmetto Sr.</u>		FDEP Facility I.D. Number:	Well Install Date: <u>4/20/23</u>
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input checked="" type="checkbox"/> Off-Site Private Property <input checked="" type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input checked="" type="checkbox"/> Perched Monitoring <input checked="" type="checkbox"/> Shallow (Water-Table) Monitoring <input checked="" type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Method: <u>Hollow stem/DP</u>	
If AG, list feet of riser above land surface: <u>1.27</u>				Surface Casing Install Method:	
Borehole Depth (feet): <u>13</u>	Well Depth (feet): <u>13</u>	Borehole Diameter (inches): <u>2</u>	Manhole Diameter (inches): <u>NA</u>	Well Pad Size: <u>NA</u> feet by <u>NA</u> feet	
Riser Diameter and Material: inches: <u>1</u> <u>PVC</u>		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe)		Riser Length: <u>3</u> feet from <u>0</u> feet to <u>3</u> feet	
Screen Diameter and Material: inches: <u>1</u> <u>PVC</u>		Screen Slot Size: <u>0.01</u>		Screen Length: <u>10</u> feet from <u>3</u> feet to <u>13</u> feet	
1 <sup>st</sup> Surface Casing Material: also check: <input checked="" type="checkbox"/> Permanent <input checked="" type="checkbox"/> Temporary		1 <sup>st</sup> Surface Casing I.D. (inches):		1 <sup>st</sup> Surface Casing Length: <u>NA</u> feet from <u>0</u> feet to <u>NA</u> feet	
2 <sup>nd</sup> Surface Casing Material: also check: <input checked="" type="checkbox"/> Permanent <input checked="" type="checkbox"/> Temporary		2 <sup>nd</sup> Surface Casing I.D. (inches):		2 <sup>nd</sup> Surface Casing Length: <u>NA</u> feet from <u>0</u> feet to <u>NA</u> feet	
3 <sup>rd</sup> Surface Casing Material: also check: <input checked="" type="checkbox"/> Permanent <input checked="" type="checkbox"/> Temporary		3 <sup>rd</sup> Surface Casing I.D. (inches):		3 <sup>rd</sup> Surface Casing Length: <u>NA</u> feet from <u>0</u> feet to <u>NA</u> feet	
Filter Pack Material and Size: <u>20-30 Sand</u>		Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No		Filter Pack Length: <u>11</u> feet from <u>2</u> feet to <u>13</u> feet	
Filter Pack Seal Material and Size: <u>30-65 fine sand</u>				Filter Pack Seal Length: <u>2</u> feet from <u>0</u> feet to <u>2</u> feet	
Surface Seal Material: <u>30-65 Sand</u>		Status Code: <u>Strikeup, temp well</u>		Surface Seal Length: <u>NA</u> feet from <u>NA</u> feet to <u>NA</u> feet	

WELL DEVELOPMENT DATA					
Well Development Date: <u>4/20/23</u>		Well Development Method (check one): <input checked="" type="checkbox"/> Surge/Pump <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe)			
Development Pump Type (check): <input checked="" type="checkbox"/> Centrifugal <input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Submersible <input type="checkbox"/> Other (describe)		Depth to Groundwater (before developing in feet) (BLS): <u>100.710 - 1.27 = 5.83</u>			
Pumping Rate (gallons per minute): <u>0.088</u>		Maximum Drawdown of Groundwater During Development (feet): <u>7.66</u>		Well Purged Dry (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Pumping Condition (check one): <input checked="" type="checkbox"/> Continuous <input type="checkbox"/> Intermittent		Total Development Water Removed (gallons): <u>3.5</u>		Development Duration (minutes): <u>40</u>	
				Development Water Drummed (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Water Appearance (color and odor) At Start of Development: <u>Clear</u>			Water Appearance (color and odor) At End of Development: <u>Clear</u>		

WELL CONSTRUCTION OR DEVELOPMENT REMARKS	
<u>Start 1105</u>	<u>DTW drops to bottom, still pumping</u>
<u>Stop 1145</u>	<u>14.67</u>

## NEW WELL CONSTRUCTION LOG

This document is subject to change. Please select the appropriate option for each section that pertains to the well construction. For a description of the Florida Department of Environmental Protection Locational Data Standard please refer to the *Locational Data Standard* Microsoft Word document located at: [www.dep.state.fl.us/waste/categories/pcp/pg\\_documents.htm](http://www.dep.state.fl.us/waste/categories/pcp/pg_documents.htm). Petroleum Restoration Program requires a minimum of Rank 3 accuracy or better for the well location data.

WELL CONSTRUCTION DATA					
Well Number: <u>TMW-3</u>		Site Name: <u>900 Palmetto St</u>		FDEP Facility I.D. Number: _____	
Well Location and Type (check appropriate boxes): <input checked="" type="checkbox"/> On-Site <input type="checkbox"/> Right-of-Way <input type="checkbox"/> Off-Site Private Property <input checked="" type="checkbox"/> Above Grade (AG) <input checked="" type="checkbox"/> Flush-to-Grade		Well Purpose: <input checked="" type="checkbox"/> Perched Monitoring <input checked="" type="checkbox"/> Shallow (Water-Table) Monitoring <input checked="" type="checkbox"/> Intermediate or Deep Monitoring <input checked="" type="checkbox"/> Remediation or Other (describe)		Well Install Date: <u>4/20/23</u>	
If AG, list feet of riser above land surface: <u>50</u>				Well Install Method: <u>Hollow stem JOP</u>	
Borehole Depth (feet): <u>13</u>	Well Depth (feet): <u>13</u>	Borehole Diameter (inches): <u>4</u>	Manhole Diameter (inches): <u>NA</u>	Well Pad Size: <u>NA</u> feet by _____ feet	
Riser Diameter and Material: inches: <u>1</u> <u>PVC</u>		Riser/Screen Connections: <input checked="" type="checkbox"/> Flush-Threaded <input type="checkbox"/> Other (describe) _____	Riser Length: <u>3</u> feet from <u>0</u> feet to <u>3</u> feet		
Screen Diameter and Material: inches: <u>1</u> <u>PVC</u>		Screen Slot Size: <u>0.010</u>		Screen Length: <u>10</u> feet from <u>3</u> feet to <u>13</u> feet	
1 <sup>st</sup> Surface Casing Material: also check: <input type="checkbox"/> Permanent <input checked="" type="checkbox"/> Temporary		1 <sup>st</sup> Surface Casing I.D. (inches): _____		1 <sup>st</sup> Surface Casing Length: _____ feet from <u>0</u> feet to _____ feet	
2 <sup>nd</sup> Surface Casing Material: also check: <input type="checkbox"/> Permanent <input checked="" type="checkbox"/> Temporary		2 <sup>nd</sup> Surface Casing I.D. (inches): _____		2 <sup>nd</sup> Surface Casing Length: _____ feet from <u>0</u> feet to _____ feet	
3 <sup>rd</sup> Surface Casing Material: also check: <input type="checkbox"/> Permanent <input checked="" type="checkbox"/> Temporary		3 <sup>rd</sup> Surface Casing I.D. (inches): _____		3 <sup>rd</sup> Surface Casing Length: _____ feet from <u>0</u> feet to _____ feet	
Filter Pack Material and Size: <u>20-30 sand</u>		Prepacked Filter Around Screen (check one): <input type="checkbox"/> Yes <input type="checkbox"/> No		Filter Pack Length: <u>11</u> feet from <u>2</u> feet to <u>13</u> feet	
Filter Pack Seal Material and Size: <u>30-65 fine sand</u>				Filter Pack Seal Length: <u>2</u> feet from <u>0</u> feet to <u>2</u> feet	
Surface Seal Material: _____		Status Code: <u>Stick up, temp well</u>		Surface Seal Length: <u>NA</u> feet from _____ feet to _____ feet	

WELL DEVELOPMENT DATA					
Well Development Date: <u>4/20/23</u>		Well Development Method (check one): <input checked="" type="checkbox"/> Surge/Pump <input type="checkbox"/> Pump <input type="checkbox"/> Compressed Air <input type="checkbox"/> Other (describe) _____			
Development Pump Type (check): <input type="checkbox"/> Submersible <input checked="" type="checkbox"/> Centrifugal <input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Other (describe) _____		Depth to Groundwater (before developing in feet) (BLS): <u>2.50 - 1.48 = 7.02</u>			
Pumping Rate (gallons per minute): <u>0.07</u>		Maximum Drawdown of Groundwater During Development (feet): <u>3.07</u>		Well Purged Dry (check one): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Pumping Condition (check one): <input checked="" type="checkbox"/> Continuous <input type="checkbox"/> Intermittent		Total Development Water Removed (gallons): <u>3.5</u>		Development Duration (minutes): <u>50</u>	
Development Water Drummed (check one): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Water Appearance (color and odor) At Start of Development: <u>Clear</u>			
				Water Appearance (color and odor) At End of Development: <u>Clear</u>	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS	
<p><u>Start: 1115</u></p> <p><u>Stop: 1205</u></p>	<p><u>DTM drops to bottom, still pumping like</u></p> <p style="text-align: center;"><u>11:57</u></p>

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: 900 Palmetto St. SITE LOCATION: Clearwater, FL  
 WELL NO: Tmw-1 SAMPLE ID: Tmw-1 DATE: 4/21/23

PURGING DATA TOX: 664

WELL DIAMETER (inches)	TUBING DIAMETER (inches)	WELL SCREEN INTERVAL DEPTH	STATIC DEPTH TO WATER	PURGE PUMP TYPE OR BAILER
<u>1</u>	<u>1/2</u>	<u>3 feet to 13 feet</u>	<u>3.80</u>	<u>PP</u>
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) $= (13 \text{ feet} - 3.80 \text{ feet}) \times 0.07 \text{ gallons/foot} = 0.37 \text{ gallons}$				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) $= \text{gallons} + (\text{gallons/foot} \times \text{feet}) + \text{gallons} = \text{gallons}$				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet)	FINAL PUMP OR TUBING DEPTH IN WELL (feet)	PURGING INITIATED AT	PURGING ENDED AT	TOTAL VOLUME PURGED (gallons)
<u>9</u>	<u>10</u>	<u>957</u>	<u>1022</u>	<u>0.73</u>

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) $\mu\text{mhos/cm}$ or $\mu\text{S/cm}$	DISSOLVED OXYGEN (circle units) $\text{mg/l}$ or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1010	0.37	0.37	0.03	7.13	6.63	24.3	396.1	1.86	9.23	clear	none
1013	0.09	0.46	0.03	7.13	6.61	24.3	401.8	1.84	4.34	clear	none
1016	0.09	0.55	0.03	7.13	6.62	24.3	404.3	1.60	3.65	clear	none
1019	0.09	0.64	0.03	7.13	6.63	24.3	406.5	1.45	4.17	clear	none
1022	0.09	0.73	0.03	7.13	6.60	24.3	405.9	1.42	3.98	clear	none

WELL CAPACITY (Gallons Per Foot): 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" = 0.008; 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: <u>Alex Jones / Startec</u>			SAMPLER(S) SIGNATURE(S): <u>[Signature]</u>			SAMPLING INITIATED AT: <u>10:23</u>		SAMPLING ENDED AT: <u>10:52</u>		
PUMP OR TUBING DEPTH IN WELL (feet): <u>10</u>			TUBING MATERIAL CODE: <u>HDPE</u>			FIELD-FILTERED: Y <u>(N)</u>		FILTER SIZE: <u>    </u> $\mu\text{m}$		
FIELD DECONTAMINATION: PUMP Y <u>(N)</u>			TUBING Y <u>(N)</u> (replaced)			DUPLICATE: Y <u>(N)</u>				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
<u>Tmw-1</u>	<u>3</u>	<u>410ml CG</u>	<u>CG</u>	<u>HCL ice</u>	<del>    </del>	<del>    </del>	<u>VOC</u>	<u>APP</u>	<u>150</u>	
<u>↓</u>	<u>1</u>	<u>150ml PE</u>	<u>PE</u>	<u>HNO3 ice</u>	<del>    </del>	<del>    </del>	<u>meta'</u>	<u>APP</u>	<u>150</u>	
<u>↓</u>	<u>1</u>	<u>250ml AG</u>	<u>AG</u>	<u>Ice</u>	<del>    </del>	<del>    </del>	<u>PAH</u>	<u>APP</u>	<u>150</u>	
<u>↓</u>	<u>1</u>	<u>250ml AG</u>	<u>AG</u>	<u>HCL ice</u>	<del>    </del>	<del>    </del>	<u>TRPH</u>	<u>APP</u>	<u>150</u>	
REMARKS: <u>0.20: 112.9, 112.3, 111.6, 111.3, 110.3</u>										
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)										
SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)										

- 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:  $\pm 0.2$  units Temperature:  $\pm 0.2$  °C Specific Conductance:  $\pm 5\%$  Dissolved Oxygen: all readings  $\leq 20\%$  saturation (see Table FS 2200-2); optionally,  $\pm 0.2$  mg/L or  $\pm 10\%$  (whichever is greater) Turbidity: all readings  $\leq 20$  NTU; optionally  $\pm 5$  NTU or  $\pm 10\%$  (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: 900 Palmers Sr.	SITE LOCATION: Clearwater, FL
WELL NO: TMW-2	SAMPLE ID: TMW-2
DATE: 4/21/23	

PURGING DATA TDC: 5.75

WELL DIAMETER (inches): 1	TUBING DIAMETER (inches): 1/2	WELL SCREEN INTERVAL DEPTH: 3 feet to 3 feet	STATIC DEPTH TO WATER (feet): 4.48	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) = 13 feet - 4.48 feet X 0.04 gallons/foot = 0.35 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 10	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 10	PURGING INITIATED AT: 1043	PURGING ENDED AT: 1107	TOTAL VOLUME PURGED (gallons): 0.71							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) $\mu\text{mhos/cm}$ or $\mu\text{S/cm}$	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1055	0.35	0.35	0.03	6.06	6.99	26.0	432.6	2.85	3.76	Clear	none
1058	0.09	0.44	0.03	6.06	6.97	26.0	436.8	2.50	3.38	Clear	none
1101	0.09	0.53	0.03	6.06	6.98	26.0	436.7	2.28	3.08	Clear	none
1104	0.09	0.62	0.03	6.06	6.97	26.0	437.1	2.34	3.91	Clear	none
1107	0.09	0.71	0.03	6.06	6.93	26.0	438.0	2.32	2.57	Clear	none
WELL CAPACITY (Gallons Per Foot) 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" = 0.0008; 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 = Bailor, BP = Bladder Pump, ESP = Electric Submersible Pump, PP = Peristaltic Pump, O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Alex Jones / State				SAMPLER(S) SIGNATURE(S): [Signature]				SAMPLING INITIATED AT: 1108		SAMPLING ENDED AT: 1117	
PUMP OR TUBING DEPTH IN WELL (feet): 10				TUBING MATERIAL CODE: HDPE				FIELD-FILTERED: Y (N)		FILTER SIZE: _____ $\mu\text{m}$	
FIELD DECONTAMINATION: PUMP Y (N)				TUBING Y (N) (replaced)				DUPLICATE: Y (N)			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)		
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
TMW-2	3	CG	40 mL	HCL ice			VOC	APP	150		
	1	PE	150 mL	HNO <sub>3</sub> ice			metals		150		
	1	AG	250 mL	ice			PAH		150		
	1	AG	250 mL	HCL ice			TRPH		150		
REMARKS: CRP: 116.9, 116.6, 116.0, 115.6, 115.4											
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)											
SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)											

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:  $\pm 0.2$  units Temperature:  $\pm 0.2$  °C Specific Conductance:  $\pm 5\%$  Dissolved Oxygen: all readings  $\leq 20\%$  saturation (see Table FS 2200-2); optionally,  $\pm 0.2$  mg/L or  $\pm 10\%$  (whichever is greater) Turbidity: all readings  $\leq 20$  NTU; optionally  $\pm 5$  NTU or  $\pm 10\%$  (whichever is greater)



DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: 900 Palmetto St. SITE LOCATION: Clearwater, FL  
 WELL NO: Tmw-3 SAMPLE ID: Tmw-3 DATE: 4/21/23

PURGING DATA TOC: 6.08

WELL DIAMETER (inches): 1 TUBING DIAMETER (inches): 1.875 WELL SCREEN INTERVAL DEPTH: 3 feet to 3 feet STATIC DEPTH TO WATER (feet): 4.58 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) = 13 feet - 4.58 feet X 0.04 gallons/foot = 0.34 gallons  
 EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME  
 (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons  
 INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 10 FINAL PUMP OR TUBING DEPTH IN WELL (feet): 10 PURGING INITIATED AT: 1140 PURGING ENDED AT: 1204 TOTAL VOLUME PURGED (gallons): 0.70

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) $\mu\text{mhos/cm}$ or $\mu\text{S/cm}$	DISSOLVED OXYGEN (circle units) mg/l or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1152	0.34	0.34	0.03	6.61	6.92	27.9	372.5	2.92	6.80	Clear	none
1155	0.09	0.43	0.03	6.61	6.90	27.9	368.5	3.02	5.82	Clear	none
1158	0.09	0.52	0.03	6.61	6.93	27.9	361.1	2.58	12.10	Clear	none
1201	0.09	0.61	0.03	6.61	6.90	27.9	358.5	2.47	13.50	Clear	none
1204	0.09	0.70	0.03	6.61	6.90	27.9	353.7	2.59	13.20	Clear	none

WELL CAPACITY (Gallons Per Foot): 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: Alex Jones / Stantec SAMPLER(S) SIGNATURE(S): [Signature] SAMPLING INITIATED AT: 1205 SAMPLING ENDED AT: 1214  
 PUMP OR TUBING DEPTH IN WELL (feet): 10 TUBING MATERIAL CODE: HDPE FIELD-FILTERED: Y (N) FILTER SIZE: \_\_\_  $\mu\text{m}$   
 FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N) (replaced) DUPLICATE: Y (N)  
 SAMPLE CONTAINER SPECIFICATION SAMPLE PRESERVATION (including wet ice) INTENDED ANALYSIS AND/OR METHOD SAMPLING EQUIPMENT CODE SAMPLE PUMP FLOW RATE (mL per minute)  

SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	ANALYSIS AND/OR METHOD	EQUIPMENT CODE	FLOW RATE
Tmw-3	3	CG	40mL	HCL ice			VOC	APP	150
↓	1	PE	150mL	HANDS ice			Metals	APP	150
↓	1	AG	250mL	Ice			PAH	APP	150
↓	1	AG	250mL	HCL ice			TRPH	APP	150

REMARKS: ORP: 122.5, 123.3, 123.7, 123.6, 123.9  
 MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)  
 SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

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:  $\pm 0.2$  units Temperature:  $\pm 0.2$  °C Specific Conductance:  $\pm 5\%$  Dissolved Oxygen: all readings  $\leq 20\%$  saturation (see Table FS 2200-2); optionally,  $\pm 0.2$  mg/L or  $\pm 10\%$  (whichever is greater) Turbidity: all readings  $\leq 20$  NTU; optionally  $\pm 5$  NTU or  $\pm 10\%$  (whichever is greater)

**Field Instrument Calibration Log**

Name: Alex Jones  
 INSTRUMENT (MAKE/MODEL#) YSI Pro Plus INSTRUMENT # 16D101091

Dissolved Oxygen	Date	Time	Temp.	DO Chart mg/L	Meter DO Reading mg/L	% DO	Calibrated Y / N	Pass Y / N
Initial	4/21	940	24.2	8.403	8.41	98.1	Y	Y
Cont.	4/21	1230	23.9	8.421	7.68	97.3	Y	Y
Cont.								
Cont.								

DO Acceptance criteria  $\pm 0.3$  mg/L

Lot#: 117/1413-E Expiration Date: 3/24

Specific Conductivity	Date	Time	Standard $\mu$ mhos/cm	Meter Reading $\mu$ mhos/cm	Calibrated Y / N	Pass Y / N
Initial	4/21	941	1413	1406	Y	Y
Cont.	4/21	1231	1413	1400	Y	Y
Cont.						
Cont.						

SC Acceptance criteria  $\pm 5\%$

pH 4 Lot #: 104-E      pH 7 Lot #: 105-E      pH 10 Lot #: 106-E  
 Expiration Date: 9/24      Expiration Date: 2/24      Expiration Date: 2/24

pH	Date	Time	pH Buffer SU	Meter Reading SU	Calibrated Y / N	Pass Y / N
Initial	4/21	942	4	4.011	Y	Y
Initial		943	7	7.02	Y	Y
Initial		944	10	10.05	Y	Y
Cont.		1232	4	4.06	Y	Y
Cont.		1233	7	7.02	Y	Y
Cont.		1234	10	10.02	Y	Y
Cont.						
Cont.						
Cont.						

pH Acceptance criteria  $\pm 0.2$  SU

Lot #: ZGI755 Expiration Date: 6/23

ORP	Date	Time	Standard mV	Meter Reading mV	Calibrated Y / N	Pass Y / N
Initial	4/21	945	238	244	Y	Y
Cont.	4/21	1235	238	242.3	Y	Y
Cont.						
Cont.						

INSTRUMENT (MAKE/MODEL#) 2020we INSTRUMENT # 6117-4815

0 NTU Lot #: \_\_\_\_\_ 1 NTU Lot #: 22010119 10 NTU Lot #: 211401993 NTU Lot #: \_\_\_\_\_  
 Expiration Date: \_\_\_\_\_ Expiration Date: 7/23 Expiration Date: 8/23 Expiration Date: \_\_\_\_\_

Turbidity	Date	Time	Standard NTU	Meter Reading NTU	Calibrated Y / N	Pass Y / N
Initial	4/21	946	1	1.312	N	Y
Initial	4/21	947	10	9.95	N	Y
Initial						
Initial						
Cont.	4/21	1240	1	1.05	N	Y
Cont.	4/21	1241	10	9.94	N	Y
Cont.						
Cont.						
Cont.						
Cont.						
Cont.						
Cont.						

Acceptable ranges for common standards: 10 NTU (9.0 - 11.0 NTU), 20 NTU (18.4 - 21.6 NTU), 100 NTU (93.5 - 106.5 NTU), 800 NTU (780 - 840 NTU)

# **Appendix B**

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## **Laboratory Analytical Reports**

April 28, 2023

Shawn Lasseter  
Cardno  
380 Park Place Blvd  
Suite 300  
Clearwater, FL 33759

RE: LOG# 2385536  
Project ID: 900 palmetto St., Clw, FL

Dear Shawn Lasseter:

Enclosed are the analytical results for sample(s) received by the laboratory on Saturday, April 22, 2023. Results reported herein conform to the most current NELAC standards, where applicable, unless indicated by \* in the body of the report. The enclosed Chain of Custody is a component of this package and should be retained with the package and incorporated therein.

Results for all solid matrices are reported in dry weight unless otherwise noted. Results for all liquid matrices are reported as received in the laboratory unless otherwise noted. Results relate only to the samples received. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

Samples are disposed of after 30 days of their receipt by the laboratory unless extended storage is requested in writing. The laboratory maintains the right to charge storage fees for archived samples. This report will be archived for 5 years after which time it will be destroyed without further notice, unless prior arrangements have been made.

Certain analyses are subcontracted to outside NELAC certified laboratories, please see the Project Summary section of this report for NELAC certification numbers of laboratories used. A Statement of Qualifiers is available upon request.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Genesis De Sousa for  
Kacia Baldwin  
kaciab@jupiterlabs.com



**SAMPLE ANALYTE COUNT**

Workorder: 2385536

Project ID: 900 palmetto St., Clw, FL

Lab ID	Sample ID	Method	Analytes Reported
2385536001	TMW-1	EPA 200.8 (Total)	8
		EPA 8260C	76
		EPA 8270/PAH SIM	21
		FL-PRO (GC)	3
2385536002	TMW-2	EPA 200.8 (Total)	8
		EPA 8260C	76
		EPA 8270/PAH SIM	21
		FL-PRO (GC)	3
2385536003	TMW-3	EPA 200.8 (Total)	8
		EPA 8260C	76
		EPA 8270/PAH SIM	21
		FL-PRO (GC)	3



### SAMPLE SUMMARY

Workorder: 2385536

Project ID: 900 palmetto St., Clw, FL

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2385536001	TMW-1	Aqueous Liquid	4/21/2023 10:23	4/22/2023 07:15
2385536002	TMW-2	Aqueous Liquid	4/21/2023 11:08	4/22/2023 07:15
2385536003	TMW-3	Aqueous Liquid	4/21/2023 12:05	4/22/2023 07:15



## ANALYTICAL RESULTS

Workorder: 2385536

Project ID: 900 palmetto St., Clw, FL

Lab ID: **2385536001** Date Received: 4/22/2023 07:15 Matrix: Aqueous Liquid  
Sample ID: **TMW-1** Date Collected: 4/21/2023 10:23

Parameters	Results	Units	PQL	MDL	DF Prepared	By	Analyzed	By	Qual
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Analysis Desc: EPA 8260C Full Scan (W)			Preparation Method: EPA 5030B						
			Analytical Method: EPA 8260C						
Dibromofluoromethane (S)	108	%	70-130		1	4/25/2023 08:30	ZM	4/25/2023 15:53	ZM
Toluene d8 (S)	104	%	70-130		1	4/25/2023 08:30	ZM	4/25/2023 15:53	ZM
4-Bromofluorobenzene (S)	107	%	70-130		1	4/25/2023 08:30	ZM	4/25/2023 15:53	ZM

### Volatiles by GC/MS

Analysis Desc: EPA 8260C Full Scan (W)			Preparation Method: EPA 5030B						
			Analytical Method: EPA 8260C						
1,1,1,2-Tetrachloroethane	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 15:53	ZM
1,1,1-Trichloroethane	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 15:53	ZM
1,1,2,2-Tetrachloroethane	U	ug/L	1.00	0.200	1	4/25/2023 08:30	ZM	4/25/2023 15:53	ZM
1,1,2-Trichloroethane	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 15:53	ZM
1,1-Dichloroethane	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 15:53	ZM
1,1-Dichloroethene	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 15:53	ZM
1,1-Dichloropropene	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 15:53	ZM
1,2,3-Trichlorobenzene	U	ug/L	2.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 15:53	ZM
1,2,3-Trichloropropane	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 15:53	ZM
1,2,4-Trichlorobenzene	U	ug/L	2.00	1.00	1	4/25/2023 08:30	ZM	4/25/2023 15:53	ZM
1,2,4-Trimethylbenzene	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 15:53	ZM
1,2-DBCP	U	ug/L	2.00	0.550	1	4/25/2023 08:30	ZM	4/25/2023 15:53	ZM
1,2-Dibromoethane (EDB)	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 15:53	ZM
1,2-Dichlorobenzene	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 15:53	ZM
1,2-Dichloroethane	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 15:53	ZM
1,2-Dichloropropane	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 15:53	ZM
1,3,5-Trimethylbenzene	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 15:53	ZM
1,3-Dichlorobenzene	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 15:53	ZM
1,3-Dichloropropane	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 15:53	ZM
1,4-Dichlorobenzene	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 15:53	ZM
2,2-Dichloropropane	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 15:53	ZM
2-Chlorotoluene	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 15:53	ZM
2-Hexanone	U	ug/L	10.0	0.400	1	4/25/2023 08:30	ZM	4/25/2023 15:53	ZM
4-Chlorotoluene	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 15:53	ZM
4-Isopropyltoluene	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 15:53	ZM
4-methyl-2-pentanone	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 15:53	ZM
Acetone	U	ug/L	10.0	5.00	1	4/25/2023 08:30	ZM	4/25/2023 15:53	ZM
Acrolein	U	ug/L	20.0	8.70	1	4/25/2023 08:30	ZM	4/25/2023 15:53	ZM
Acrylonitrile	U	ug/L	20.0	4.20	1	4/25/2023 08:30	ZM	4/25/2023 15:53	ZM
Benzene	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 15:53	ZM
Bromobenzene	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 15:53	ZM



### ANALYTICAL RESULTS

Workorder: 2385536

Project ID: 900 palmetto St., Clw, FL

Lab ID: **2385536001**

Date Received: 4/22/2023 07:15

Matrix: Aqueous Liquid

Sample ID: **TMW-1**

Date Collected: 4/21/2023 10:23

Parameters	Results	Units	PQL	MDL	DF Prepared	By	Analyzed	By	Qual
Bromochloromethane		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 15:53	ZM	
Bromodichloromethane		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 15:53	ZM	
Bromoform		U ug/L	1.00	0.550	1 4/25/2023 08:30	ZM	4/25/2023 15:53	ZM	
Bromomethane		U ug/L	6.00	4.00	1 4/25/2023 08:30	ZM	4/25/2023 15:53	ZM	
Carbon disulfide		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 15:53	ZM	
Carbon tetrachloride		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 15:53	ZM	
Chlorobenzene		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 15:53	ZM	
Chloroethane		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 15:53	ZM	
Chloroform		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 15:53	ZM	
Chloromethane		U ug/L	5.00	2.50	1 4/25/2023 08:30	ZM	4/25/2023 15:53	ZM	
Dibromochloromethane		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 15:53	ZM	
Dibromomethane		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 15:53	ZM	
Dichlorodifluoromethane		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 15:53	ZM	
cis-1,3-Dichloropropene		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 15:53	ZM	
Ethyl methacrylate		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 15:53	ZM	
Ethylbenzene		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 15:53	ZM	
Hexachlorobutadiene		U ug/L	2.00	1.00	1 4/25/2023 08:30	ZM	4/25/2023 15:53	ZM	
Iodomethane		U ug/L	1.00	0.460	1 4/25/2023 08:30	ZM	4/25/2023 15:53	ZM	
Isopropylbenzene (Cumene)		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 15:53	ZM	
Methyl ethyl ketone (MEK)		U ug/L	5.00	0.640	1 4/25/2023 08:30	ZM	4/25/2023 15:53	ZM	
Methylene chloride		U ug/L	4.00	2.00	1 4/25/2023 08:30	ZM	4/25/2023 15:53	ZM	
Naphthalene		U ug/L	5.00	2.00	1 4/25/2023 08:30	ZM	4/25/2023 15:53	ZM	
Styrene		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 15:53	ZM	
Tetrachloroethene		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 15:53	ZM	
Toluene		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 15:53	ZM	
Trichloroethene		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 15:53	ZM	
Trichlorofluoromethane		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 15:53	ZM	
Vinyl acetate		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 15:53	ZM	
Vinyl chloride		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 15:53	ZM	
Xylenes- Total		U ug/L	3.00	0.800	1 4/25/2023 08:30	ZM	4/25/2023 15:53	ZM	
cis-1,2-Dichloroethene		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 15:53	ZM	
cis-1,4-Dichloro-2-butene		U ug/L	1.00	0.440	1 4/25/2023 08:30	ZM	4/25/2023 15:53	ZM	
m & p-xylene		U ug/L	2.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 15:53	ZM	
n-Butylbenzene		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 15:53	ZM	
n-propylbenzene		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 15:53	ZM	
o-Xylene		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 15:53	ZM	
sec-Butylbenzene		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 15:53	ZM	
t-1,4-Dichloro-2-butene		U ug/L	1.00	0.410	1 4/25/2023 08:30	ZM	4/25/2023 15:53	ZM	
tert-Butyl methyl ether (MTBE)		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 15:53	ZM	
tert-Butylbenzene		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 15:53	ZM	
trans-1,2-Dichloroethene		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 15:53	ZM	
trans-1,3-Dichloropropene		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 15:53	ZM	





### ANALYTICAL RESULTS

Workorder: 2385536

Project ID: 900 palmetto St., Clw, FL

Lab ID: **2385536001**

Date Received: 4/22/2023 07:15

Matrix: Aqueous Liquid

Sample ID: **TMW-1**

Date Collected: 4/21/2023 10:23

Parameters	Results	Units	PQL	MDL	DF Prepared	By	Analyzed	By	Qual
Analysis Desc: Florida PRO by GC (W)					Preparation Method: EPA 3510C				
					Analytical Method: FL-PRO (GC)				
o-Terphenyl (S)	62	%	66-139		1	4/24/2023 11:47	JL	4/24/2023 23:15	TDB
Nonatriacontane (S)	73	%	40-129		1	4/24/2023 11:47	JL	4/24/2023 23:15	TDB

#### Semivolatiles by GC

Analysis Desc: Florida PRO by GC (W)					Preparation Method: EPA 3510C				
					Analytical Method: FL-PRO (GC)				
Florida Pro Total		U mg/L	1.20	0.400	1	4/24/2023 11:47	JL	4/24/2023 23:15	TDB

Analysis Desc: EPA 200.8 Total RCRA-8 Metals (W)					Preparation Method: EPA 200.2 mod.				
					Analytical Method: EPA 200.8 (Total)				
Chromium		U ug/L	2.0	0.27	4	4/25/2023 15:12	ECW	4/25/2023 18:59	DB
Arsenic		U ug/L	2.0	0.65	4	4/25/2023 15:12	ECW	4/25/2023 18:59	DB
Selenium		U ug/L	4.0	2.1	4	4/25/2023 15:12	ECW	4/25/2023 18:59	DB
Silver		U ug/L	2.0	0.80	4	4/25/2023 15:12	ECW	4/25/2023 18:59	DB
Cadmium		U ug/L	2.0	0.28	4	4/25/2023 15:12	ECW	4/25/2023 18:59	DB
Barium	9.4	ug/L	2.0	0.30	4	4/25/2023 15:12	ECW	4/25/2023 18:59	DB
Mercury		U ug/L	2.0	0.73	4	4/25/2023 15:12	ECW	4/25/2023 18:59	DB
Lead		U ug/L	2.0	1.2	4	4/25/2023 15:12	ECW	4/25/2023 18:59	DB

#### Semivolatiles by EPA 8270C

Analysis Desc: PAH List by 8270 SIM (W)					Preparation Method: EPA 3510C SIM				
					Analytical Method: EPA 8270/PAH SIM				
1-Methylnaphthalene		U ug/L	0.100	0.050	1	4/24/2023 11:05	JL	4/24/2023 18:42	TDB
2-Methylnaphthalene		U ug/L	0.100	0.050	1	4/24/2023 11:05	JL	4/24/2023 18:42	TDB
Acenaphthene		U ug/L	0.050	0.025	1	4/24/2023 11:05	JL	4/24/2023 18:42	TDB
Acenaphthylene		U ug/L	0.050	0.025	1	4/24/2023 11:05	JL	4/24/2023 18:42	TDB
Anthracene		U ug/L	0.050	0.025	1	4/24/2023 11:05	JL	4/24/2023 18:42	TDB
Benzo(a)anthracene		U ug/L	0.050	0.025	1	4/24/2023 11:05	JL	4/24/2023 18:42	TDB
Benzo(a)pyrene		U ug/L	0.050	0.015	1	4/24/2023 11:05	JL	4/24/2023 18:42	TDB
Benzo(b)fluoranthene		U ug/L	0.050	0.015	1	4/24/2023 11:05	JL	4/24/2023 18:42	TDB
Benzo(g,h,i)perylene		U ug/L	0.050	0.015	1	4/24/2023 11:05	JL	4/24/2023 18:42	TDB
Benzo(k)fluoranthene		U ug/L	0.050	0.015	1	4/24/2023 11:05	JL	4/24/2023 18:42	TDB
Chrysene		U ug/L	0.050	0.025	1	4/24/2023 11:05	JL	4/24/2023 18:42	TDB
Dibenzo(a,h)anthracene		U ug/L	0.050	0.0050	1	4/24/2023 11:05	JL	4/24/2023 18:42	TDB
Fluoranthene		U ug/L	0.050	0.025	1	4/24/2023 11:05	JL	4/24/2023 18:42	TDB
Fluorene		U ug/L	0.050	0.025	1	4/24/2023 11:05	JL	4/24/2023 18:42	TDB
Indeno(1,2,3-cd)pyrene		U ug/L	0.050	0.015	1	4/24/2023 11:05	JL	4/24/2023 18:42	TDB
Naphthalene		U ug/L	0.100	0.050	1	4/24/2023 11:05	JL	4/24/2023 18:42	TDB



### ANALYTICAL RESULTS

Workorder: 2385536

Project ID: 900 palmetto St., Clw, FL

Lab ID: **2385536001**

Date Received: 4/22/2023 07:15

Matrix: Aqueous Liquid

Sample ID: **TMW-1**

Date Collected: 4/21/2023 10:23

Parameters	Results	Units	PQL	MDL	DF Prepared	By	Analyzed	By	Qual
Phenanthrene		U ug/L	0.400	0.200	1 4/24/2023 11:05	JL	4/24/2023 18:42	TDB	
Pyrene		U ug/L	0.050	0.025	1 4/24/2023 11:05	JL	4/24/2023 18:42	TDB	
Nitrobenzene-d5 (S)	68	%	30-110		1 4/24/2023 11:05	JL	4/24/2023 18:42	TDB	
2-Fluorobiphenyl (S)	67	%	30-110		1 4/24/2023 11:05	JL	4/24/2023 18:42	TDB	
p-Terphenyl-d14 (S)	92	%	30-140		1 4/24/2023 11:05	JL	4/24/2023 18:42	TDB	



## ANALYTICAL RESULTS

Workorder: 2385536

Project ID: 900 palmetto St., Clw, FL

Lab ID: **2385536002**

Date Received: 4/22/2023 07:15

Matrix: Aqueous Liquid

Sample ID: **TMW-2**

Date Collected: 4/21/2023 11:08

Parameters	Results	Units	PQL	MDL	DF Prepared	By	Analyzed	By	Qual
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Analysis Desc: EPA 8260C Full Scan (W)

Preparation Method: EPA 5030B

Analytical Method: EPA 8260C

Dibromofluoromethane (S)	107	%	70-130		1	4/25/2023 08:30	ZM	4/25/2023 16:21	ZM
Toluene d8 (S)	101	%	70-130		1	4/25/2023 08:30	ZM	4/25/2023 16:21	ZM
4-Bromofluorobenzene (S)	103	%	70-130		1	4/25/2023 08:30	ZM	4/25/2023 16:21	ZM

### Volatiles by GC/MS

Analysis Desc: EPA 8260C Full Scan (W)

Preparation Method: EPA 5030B

Analytical Method: EPA 8260C

1,1,1,2-Tetrachloroethane	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 16:21	ZM
1,1,1-Trichloroethane	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 16:21	ZM
1,1,2,2-Tetrachloroethane	U	ug/L	1.00	0.200	1	4/25/2023 08:30	ZM	4/25/2023 16:21	ZM
1,1,2-Trichloroethane	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 16:21	ZM
1,1-Dichloroethane	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 16:21	ZM
1,1-Dichloroethene	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 16:21	ZM
1,1-Dichloropropene	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 16:21	ZM
1,2,3-Trichlorobenzene	U	ug/L	2.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 16:21	ZM
1,2,3-Trichloropropane	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 16:21	ZM
1,2,4-Trichlorobenzene	U	ug/L	2.00	1.00	1	4/25/2023 08:30	ZM	4/25/2023 16:21	ZM
1,2,4-Trimethylbenzene	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 16:21	ZM
1,2-DBCP	U	ug/L	2.00	0.550	1	4/25/2023 08:30	ZM	4/25/2023 16:21	ZM
1,2-Dibromoethane (EDB)	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 16:21	ZM
1,2-Dichlorobenzene	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 16:21	ZM
1,2-Dichloroethane	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 16:21	ZM
1,2-Dichloropropane	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 16:21	ZM
1,3,5-Trimethylbenzene	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 16:21	ZM
1,3-Dichlorobenzene	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 16:21	ZM
1,3-Dichloropropane	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 16:21	ZM
1,4-Dichlorobenzene	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 16:21	ZM
2,2-Dichloropropane	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 16:21	ZM
2-Chlorotoluene	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 16:21	ZM
2-Hexanone	U	ug/L	10.0	0.400	1	4/25/2023 08:30	ZM	4/25/2023 16:21	ZM
4-Chlorotoluene	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 16:21	ZM
4-Isopropyltoluene	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 16:21	ZM
4-methyl-2-pentanone	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 16:21	ZM
Acetone	U	ug/L	10.0	5.00	1	4/25/2023 08:30	ZM	4/25/2023 16:21	ZM
Acrolein	U	ug/L	20.0	8.70	1	4/25/2023 08:30	ZM	4/25/2023 16:21	ZM
Acrylonitrile	U	ug/L	20.0	4.20	1	4/25/2023 08:30	ZM	4/25/2023 16:21	ZM
Benzene	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 16:21	ZM
Bromobenzene	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 16:21	ZM



### ANALYTICAL RESULTS

Workorder: 2385536

Project ID: 900 palmetto St., Clw, FL

Lab ID: **2385536002**

Date Received: 4/22/2023 07:15

Matrix: Aqueous Liquid

Sample ID: **TMW-2**

Date Collected: 4/21/2023 11:08

Parameters	Results	Units	PQL	MDL	DF Prepared	By	Analyzed	By	Qual
Bromochloromethane		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:21	ZM	
Bromodichloromethane		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:21	ZM	
Bromoform		U ug/L	1.00	0.550	1 4/25/2023 08:30	ZM	4/25/2023 16:21	ZM	
Bromomethane		U ug/L	6.00	4.00	1 4/25/2023 08:30	ZM	4/25/2023 16:21	ZM	
Carbon disulfide		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:21	ZM	
Carbon tetrachloride		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:21	ZM	
Chlorobenzene		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:21	ZM	
Chloroethane		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:21	ZM	
Chloroform		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:21	ZM	
Chloromethane		U ug/L	5.00	2.50	1 4/25/2023 08:30	ZM	4/25/2023 16:21	ZM	
Dibromochloromethane		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:21	ZM	
Dibromomethane		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:21	ZM	
Dichlorodifluoromethane		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:21	ZM	
cis-1,3-Dichloropropene		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:21	ZM	
Ethyl methacrylate		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:21	ZM	
Ethylbenzene		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:21	ZM	
Hexachlorobutadiene		U ug/L	2.00	1.00	1 4/25/2023 08:30	ZM	4/25/2023 16:21	ZM	
Iodomethane		U ug/L	1.00	0.460	1 4/25/2023 08:30	ZM	4/25/2023 16:21	ZM	
Isopropylbenzene (Cumene)		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:21	ZM	
Methyl ethyl ketone (MEK)		U ug/L	5.00	0.640	1 4/25/2023 08:30	ZM	4/25/2023 16:21	ZM	
Methylene chloride		U ug/L	4.00	2.00	1 4/25/2023 08:30	ZM	4/25/2023 16:21	ZM	
Naphthalene		U ug/L	5.00	2.00	1 4/25/2023 08:30	ZM	4/25/2023 16:21	ZM	
Styrene		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:21	ZM	
Tetrachloroethene		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:21	ZM	
Toluene		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:21	ZM	
Trichloroethene		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:21	ZM	
Trichlorofluoromethane		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:21	ZM	
Vinyl acetate		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:21	ZM	
Vinyl chloride		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:21	ZM	
Xylenes- Total		U ug/L	3.00	0.800	1 4/25/2023 08:30	ZM	4/25/2023 16:21	ZM	
cis-1,2-Dichloroethene		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:21	ZM	
cis-1,4-Dichloro-2-butene		U ug/L	1.00	0.440	1 4/25/2023 08:30	ZM	4/25/2023 16:21	ZM	
m & p-xylene		U ug/L	2.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:21	ZM	
n-Butylbenzene		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:21	ZM	
n-propylbenzene		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:21	ZM	
o-Xylene		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:21	ZM	
sec-Butylbenzene		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:21	ZM	
t-1,4-Dichloro-2-butene		U ug/L	1.00	0.410	1 4/25/2023 08:30	ZM	4/25/2023 16:21	ZM	
tert-Butyl methyl ether (MTBE)		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:21	ZM	
tert-Butylbenzene		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:21	ZM	
trans-1,2-Dichloroethene		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:21	ZM	
trans-1,3-Dichloropropene		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:21	ZM	



### ANALYTICAL RESULTS

Workorder: 2385536

Project ID: 900 palmetto St., Clw, FL

Lab ID: **2385536002** Date Received: 4/22/2023 07:15 Matrix: Aqueous Liquid  
Sample ID: **TMW-2** Date Collected: 4/21/2023 11:08

Parameters	Results	Units	PQL	MDL	DF Prepared	By	Analyzed	By	Qual
Analysis Desc: Florida PRO by GC (W)					Preparation Method: EPA 3510C				
					Analytical Method: FL-PRO (GC)				
o-Terphenyl (S)	73	%	66-139		1	4/24/2023 11:47	JL	4/24/2023 23:38	TDB
Nonatriacontane (S)	71	%	40-129		1	4/24/2023 11:47	JL	4/24/2023 23:38	TDB

#### Semivolatiles by GC

Analysis Desc: Florida PRO by GC (W)					Preparation Method: EPA 3510C				
					Analytical Method: FL-PRO (GC)				
Florida Pro Total		U mg/L	1.20	0.400	1	4/24/2023 11:47	JL	4/24/2023 23:38	TDB

Analysis Desc: EPA 200.8 Total RCRA-8 Metals (W)					Preparation Method: EPA 200.2 mod.				
					Analytical Method: EPA 200.8 (Total)				
Chromium	0.31i	ug/L	2.0	0.27	4	4/25/2023 15:12	ECW	4/25/2023 19:03	DB
Arsenic	1.7i	ug/L	2.0	0.65	4	4/25/2023 15:12	ECW	4/25/2023 19:03	DB
Selenium	U	ug/L	4.0	2.1	4	4/25/2023 15:12	ECW	4/25/2023 19:03	DB
Silver	U	ug/L	2.0	0.80	4	4/25/2023 15:12	ECW	4/25/2023 19:03	DB
Cadmium	U	ug/L	2.0	0.28	4	4/25/2023 15:12	ECW	4/25/2023 19:03	DB
Barium	13	ug/L	2.0	0.30	4	4/25/2023 15:12	ECW	4/25/2023 19:03	DB
Mercury	U	ug/L	2.0	0.73	4	4/25/2023 15:12	ECW	4/25/2023 19:03	DB
Lead	U	ug/L	2.0	1.2	4	4/25/2023 15:12	ECW	4/25/2023 19:03	DB

#### Semivolatiles by EPA 8270C

Analysis Desc: PAH List by 8270 SIM (W)					Preparation Method: EPA 3510C SIM				
					Analytical Method: EPA 8270/PAH SIM				
1-Methylnaphthalene	U	ug/L	0.100	0.050	1	4/24/2023 11:05	JL	4/24/2023 19:05	TDB
2-Methylnaphthalene	U	ug/L	0.100	0.050	1	4/24/2023 11:05	JL	4/24/2023 19:05	TDB
Acenaphthene	U	ug/L	0.050	0.025	1	4/24/2023 11:05	JL	4/24/2023 19:05	TDB
Acenaphthylene	U	ug/L	0.050	0.025	1	4/24/2023 11:05	JL	4/24/2023 19:05	TDB
Anthracene	U	ug/L	0.050	0.025	1	4/24/2023 11:05	JL	4/24/2023 19:05	TDB
Benzo(a)anthracene	U	ug/L	0.050	0.025	1	4/24/2023 11:05	JL	4/24/2023 19:05	TDB
Benzo(a)pyrene	U	ug/L	0.050	0.015	1	4/24/2023 11:05	JL	4/24/2023 19:05	TDB
Benzo(b)fluoranthene	U	ug/L	0.050	0.015	1	4/24/2023 11:05	JL	4/24/2023 19:05	TDB
Benzo(g,h,i)perylene	U	ug/L	0.050	0.015	1	4/24/2023 11:05	JL	4/24/2023 19:05	TDB
Benzo(k)fluoranthene	U	ug/L	0.050	0.015	1	4/24/2023 11:05	JL	4/24/2023 19:05	TDB
Chrysene	U	ug/L	0.050	0.025	1	4/24/2023 11:05	JL	4/24/2023 19:05	TDB
Dibenzo(a,h)anthracene	U	ug/L	0.050	0.0050	1	4/24/2023 11:05	JL	4/24/2023 19:05	TDB
Fluoranthene	U	ug/L	0.050	0.025	1	4/24/2023 11:05	JL	4/24/2023 19:05	TDB
Fluorene	U	ug/L	0.050	0.025	1	4/24/2023 11:05	JL	4/24/2023 19:05	TDB
Indeno(1,2,3-cd)pyrene	U	ug/L	0.050	0.015	1	4/24/2023 11:05	JL	4/24/2023 19:05	TDB
Naphthalene	U	ug/L	0.100	0.050	1	4/24/2023 11:05	JL	4/24/2023 19:05	TDB



**ANALYTICAL RESULTS**

Workorder: 2385536

Project ID: 900 palmetto St., Clw, FL

Lab ID: **2385536002**

Date Received: 4/22/2023 07:15

Matrix: Aqueous Liquid

Sample ID: **TMW-2**

Date Collected: 4/21/2023 11:08

Parameters	Results	Units	PQL	MDL	DF Prepared	By	Analyzed	By	Qual
Phenanthrene		U ug/L	0.400	0.200	1 4/24/2023 11:05	JL	4/24/2023 19:05	TDB	
Pyrene		U ug/L	0.050	0.025	1 4/24/2023 11:05	JL	4/24/2023 19:05	TDB	
Nitrobenzene-d5 (S)	55	%	30-110		1 4/24/2023 11:05	JL	4/24/2023 19:05	TDB	
2-Fluorobiphenyl (S)	61	%	30-110		1 4/24/2023 11:05	JL	4/24/2023 19:05	TDB	
p-Terphenyl-d14 (S)	58	%	30-140		1 4/24/2023 11:05	JL	4/24/2023 19:05	TDB	



### ANALYTICAL RESULTS

Workorder: 2385536

Project ID: 900 palmetto St., Clw, FL

Lab ID: **2385536003** Date Received: 4/22/2023 07:15 Matrix: Aqueous Liquid  
Sample ID: **TMW-3** Date Collected: 4/21/2023 12:05

Parameters	Results	Units	PQL	MDL	DF Prepared	By	Analyzed	By	Qual
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Analysis Desc: EPA 8260C Full Scan (W)			Preparation Method: EPA 5030B						
			Analytical Method: EPA 8260C						
Dibromofluoromethane (S)	108	%	70-130		1	4/25/2023 08:30	ZM	4/25/2023 16:49	ZM
Toluene d8 (S)	100	%	70-130		1	4/25/2023 08:30	ZM	4/25/2023 16:49	ZM
4-Bromofluorobenzene (S)	106	%	70-130		1	4/25/2023 08:30	ZM	4/25/2023 16:49	ZM

#### Volatiles by GC/MS

Analysis Desc: EPA 8260C Full Scan (W)			Preparation Method: EPA 5030B						
			Analytical Method: EPA 8260C						
1,1,1,2-Tetrachloroethane	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 16:49	ZM
1,1,1-Trichloroethane	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 16:49	ZM
1,1,2,2-Tetrachloroethane	U	ug/L	1.00	0.200	1	4/25/2023 08:30	ZM	4/25/2023 16:49	ZM
1,1,2-Trichloroethane	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 16:49	ZM
1,1-Dichloroethane	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 16:49	ZM
1,1-Dichloroethene	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 16:49	ZM
1,1-Dichloropropene	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 16:49	ZM
1,2,3-Trichlorobenzene	U	ug/L	2.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 16:49	ZM
1,2,3-Trichloropropane	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 16:49	ZM
1,2,4-Trichlorobenzene	U	ug/L	2.00	1.00	1	4/25/2023 08:30	ZM	4/25/2023 16:49	ZM
1,2,4-Trimethylbenzene	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 16:49	ZM
1,2-DBCP	U	ug/L	2.00	0.550	1	4/25/2023 08:30	ZM	4/25/2023 16:49	ZM
1,2-Dibromoethane (EDB)	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 16:49	ZM
1,2-Dichlorobenzene	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 16:49	ZM
1,2-Dichloroethane	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 16:49	ZM
1,2-Dichloropropane	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 16:49	ZM
1,3,5-Trimethylbenzene	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 16:49	ZM
1,3-Dichlorobenzene	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 16:49	ZM
1,3-Dichloropropane	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 16:49	ZM
1,4-Dichlorobenzene	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 16:49	ZM
2,2-Dichloropropane	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 16:49	ZM
2-Chlorotoluene	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 16:49	ZM
2-Hexanone	U	ug/L	10.0	0.400	1	4/25/2023 08:30	ZM	4/25/2023 16:49	ZM
4-Chlorotoluene	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 16:49	ZM
4-Isopropyltoluene	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 16:49	ZM
4-methyl-2-pentanone	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 16:49	ZM
Acetone	U	ug/L	10.0	5.00	1	4/25/2023 08:30	ZM	4/25/2023 16:49	ZM
Acrolein	U	ug/L	20.0	8.70	1	4/25/2023 08:30	ZM	4/25/2023 16:49	ZM
Acrylonitrile	U	ug/L	20.0	4.20	1	4/25/2023 08:30	ZM	4/25/2023 16:49	ZM
Benzene	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 16:49	ZM
Bromobenzene	U	ug/L	1.00	0.400	1	4/25/2023 08:30	ZM	4/25/2023 16:49	ZM



### ANALYTICAL RESULTS

Workorder: 2385536

Project ID: 900 palmetto St., Clw, FL

Lab ID: **2385536003**

Date Received: 4/22/2023 07:15

Matrix: Aqueous Liquid

Sample ID: **TMW-3**

Date Collected: 4/21/2023 12:05

Parameters	Results	Units	PQL	MDL	DF Prepared	By	Analyzed	By	Qual
Bromochloromethane		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:49	ZM	
Bromodichloromethane		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:49	ZM	
Bromoform		U ug/L	1.00	0.550	1 4/25/2023 08:30	ZM	4/25/2023 16:49	ZM	
Bromomethane		U ug/L	6.00	4.00	1 4/25/2023 08:30	ZM	4/25/2023 16:49	ZM	
Carbon disulfide		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:49	ZM	
Carbon tetrachloride		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:49	ZM	
Chlorobenzene		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:49	ZM	
Chloroethane		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:49	ZM	
Chloroform		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:49	ZM	
Chloromethane		U ug/L	5.00	2.50	1 4/25/2023 08:30	ZM	4/25/2023 16:49	ZM	
Dibromochloromethane		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:49	ZM	
Dibromomethane		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:49	ZM	
Dichlorodifluoromethane		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:49	ZM	
cis-1,3-Dichloropropene		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:49	ZM	
Ethyl methacrylate		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:49	ZM	
Ethylbenzene		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:49	ZM	
Hexachlorobutadiene		U ug/L	2.00	1.00	1 4/25/2023 08:30	ZM	4/25/2023 16:49	ZM	
Iodomethane		U ug/L	1.00	0.460	1 4/25/2023 08:30	ZM	4/25/2023 16:49	ZM	
Isopropylbenzene (Cumene)		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:49	ZM	
Methyl ethyl ketone (MEK)		U ug/L	5.00	0.640	1 4/25/2023 08:30	ZM	4/25/2023 16:49	ZM	
Methylene chloride		U ug/L	4.00	2.00	1 4/25/2023 08:30	ZM	4/25/2023 16:49	ZM	
Naphthalene		U ug/L	5.00	2.00	1 4/25/2023 08:30	ZM	4/25/2023 16:49	ZM	
Styrene		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:49	ZM	
Tetrachloroethene		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:49	ZM	
Toluene		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:49	ZM	
Trichloroethene		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:49	ZM	
Trichlorofluoromethane		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:49	ZM	
Vinyl acetate		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:49	ZM	
Vinyl chloride		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:49	ZM	
Xylenes- Total		U ug/L	3.00	0.800	1 4/25/2023 08:30	ZM	4/25/2023 16:49	ZM	
cis-1,2-Dichloroethene		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:49	ZM	
cis-1,4-Dichloro-2-butene		U ug/L	1.00	0.440	1 4/25/2023 08:30	ZM	4/25/2023 16:49	ZM	
m & p-xylene		U ug/L	2.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:49	ZM	
n-Butylbenzene		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:49	ZM	
n-propylbenzene		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:49	ZM	
o-Xylene		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:49	ZM	
sec-Butylbenzene		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:49	ZM	
t-1,4-Dichloro-2-butene		U ug/L	1.00	0.410	1 4/25/2023 08:30	ZM	4/25/2023 16:49	ZM	
tert-Butyl methyl ether (MTBE)		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:49	ZM	
tert-Butylbenzene		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:49	ZM	
trans-1,2-Dichloroethene		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:49	ZM	
trans-1,3-Dichloropropene		U ug/L	1.00	0.400	1 4/25/2023 08:30	ZM	4/25/2023 16:49	ZM	





### ANALYTICAL RESULTS

Workorder: 2385536

Project ID: 900 palmetto St., Clw, FL

Lab ID: **2385536003** Date Received: 4/22/2023 07:15 Matrix: Aqueous Liquid  
Sample ID: **TMW-3** Date Collected: 4/21/2023 12:05

Parameters	Results	Units	PQL	MDL	DF Prepared	By	Analyzed	By	Qual
Analysis Desc: Florida PRO by GC (W)					Preparation Method: EPA 3510C				
					Analytical Method: FL-PRO (GC)				
o-Terphenyl (S)	72	%	66-139		1	4/24/2023 11:47	JL	4/25/2023 00:01	TDB
Nonatriacontane (S)	75	%	40-129		1	4/24/2023 11:47	JL	4/25/2023 00:01	TDB
<b>Semivolatiles by GC</b>									
Analysis Desc: Florida PRO by GC (W)					Preparation Method: EPA 3510C				
					Analytical Method: FL-PRO (GC)				
Florida Pro Total		U mg/L	1.20	0.400	1	4/24/2023 11:47	JL	4/25/2023 00:01	TDB
Analysis Desc: EPA 200.8 Total RCRA-8 Metals (W)					Preparation Method: EPA 200.2 mod.				
					Analytical Method: EPA 200.8 (Total)				
Chromium	1.4i	ug/L	2.0	0.27	4	4/25/2023 15:12	ECW	4/25/2023 19:08	DB
Arsenic	1.1i	ug/L	2.0	0.65	4	4/25/2023 15:12	ECW	4/25/2023 19:08	DB
Selenium	U	ug/L	4.0	2.1	4	4/25/2023 15:12	ECW	4/25/2023 19:08	DB
Silver	U	ug/L	2.0	0.80	4	4/25/2023 15:12	ECW	4/25/2023 19:08	DB
Cadmium	U	ug/L	2.0	0.28	4	4/25/2023 15:12	ECW	4/25/2023 19:08	DB
Barium	14	ug/L	2.0	0.30	4	4/25/2023 15:12	ECW	4/25/2023 19:08	DB
Mercury	U	ug/L	2.0	0.73	4	4/25/2023 15:12	ECW	4/25/2023 19:08	DB
Lead	U	ug/L	2.0	1.2	4	4/25/2023 15:12	ECW	4/25/2023 19:08	DB
<b>Semivolatiles by EPA 8270C</b>									
Analysis Desc: PAH List by 8270 SIM (W)					Preparation Method: EPA 3510C SIM				
					Analytical Method: EPA 8270/PAH SIM				
1-Methylnaphthalene	U	ug/L	0.100	0.050	1	4/24/2023 11:05	JL	4/24/2023 19:28	TDB
2-Methylnaphthalene	U	ug/L	0.100	0.050	1	4/24/2023 11:05	JL	4/24/2023 19:28	TDB
Acenaphthene	U	ug/L	0.050	0.025	1	4/24/2023 11:05	JL	4/24/2023 19:28	TDB
Acenaphthylene	U	ug/L	0.050	0.025	1	4/24/2023 11:05	JL	4/24/2023 19:28	TDB
Anthracene	U	ug/L	0.050	0.025	1	4/24/2023 11:05	JL	4/24/2023 19:28	TDB
Benzo(a)anthracene	U	ug/L	0.050	0.025	1	4/24/2023 11:05	JL	4/24/2023 19:28	TDB
Benzo(a)pyrene	U	ug/L	0.050	0.015	1	4/24/2023 11:05	JL	4/24/2023 19:28	TDB
Benzo(b)fluoranthene	U	ug/L	0.050	0.015	1	4/24/2023 11:05	JL	4/24/2023 19:28	TDB
Benzo(g,h,i)perylene	U	ug/L	0.050	0.015	1	4/24/2023 11:05	JL	4/24/2023 19:28	TDB
Benzo(k)fluoranthene	U	ug/L	0.050	0.015	1	4/24/2023 11:05	JL	4/24/2023 19:28	TDB
Chrysene	U	ug/L	0.050	0.025	1	4/24/2023 11:05	JL	4/24/2023 19:28	TDB
Dibenzo(a,h)anthracene	U	ug/L	0.050	0.0050	1	4/24/2023 11:05	JL	4/24/2023 19:28	TDB
Fluoranthene	U	ug/L	0.050	0.025	1	4/24/2023 11:05	JL	4/24/2023 19:28	TDB
Fluorene	U	ug/L	0.050	0.025	1	4/24/2023 11:05	JL	4/24/2023 19:28	TDB
Indeno(1,2,3-cd)pyrene	U	ug/L	0.050	0.015	1	4/24/2023 11:05	JL	4/24/2023 19:28	TDB
Naphthalene	U	ug/L	0.100	0.050	1	4/24/2023 11:05	JL	4/24/2023 19:28	TDB



### ANALYTICAL RESULTS

Workorder: 2385536

Project ID: 900 palmetto St., Clw, FL

Lab ID: **2385536003**

Date Received: 4/22/2023 07:15

Matrix: Aqueous Liquid

Sample ID: **TMW-3**

Date Collected: 4/21/2023 12:05

Parameters	Results	Units	PQL	MDL	DF Prepared	By	Analyzed	By	Qual
Phenanthrene		U ug/L	0.400	0.200	1 4/24/2023 11:05	JL	4/24/2023 19:28	TDB	
Pyrene		U ug/L	0.050	0.025	1 4/24/2023 11:05	JL	4/24/2023 19:28	TDB	
Nitrobenzene-d5 (S)	54	%	30-110		1 4/24/2023 11:05	JL	4/24/2023 19:28	TDB	
2-Fluorobiphenyl (S)	56	%	30-110		1 4/24/2023 11:05	JL	4/24/2023 19:28	TDB	
p-Terphenyl-d14 (S)	62	%	30-140		1 4/24/2023 11:05	JL	4/24/2023 19:28	TDB	



## ANALYTICAL RESULTS QUALIFIERS

Workorder: 2385536

Project ID: 900 palmetto St., Clw, FL

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### PARAMETER QUALIFIERS

J1 Surrogate recovery was outside defined limits.

### PROJECT COMMENTS

2385536 A reported value of U indicates that the compound was analyzed for but not detected above the MDL. A value flagged with an "i" flag indicates that the reported value is between the laboratory method detection limit and the practical quantitation limit.



**QUALITY CONTROL DATA**

Workorder: 2385536

Project ID: 900 palmetto St., Clw, FL

QC Batch: XXX/17345 Analysis Method: EPA 8270/PAH SIM  
QC Batch Method: EPA 3510C SIM  
Associated Lab Samples: 2385529001 2385536001 2385536002 2385536003

METHOD BLANK: 280840

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Semivolatiles by EPA 8270C				
Nitrobenzene-d5 (S)	%	49	30-110	
2-Fluorobiphenyl (S)	%	57	30-110	
p-Terphenyl-d14 (S)	%	124	30-140	
Naphthalene	ug/L	U	0.013	
2-Methylnaphthalene	ug/L	U	0.013	
1-Methylnaphthalene	ug/L	U	0.013	
Acenaphthylene	ug/L	U	0.00625	
Acenaphthene	ug/L	U	0.00625	
Fluorene	ug/L	U	0.00625	
Phenanthrene	ug/L	U	0.050	
Anthracene	ug/L	U	0.00625	
Fluoranthene	ug/L	U	0.00625	
Pyrene	ug/L	U	0.00625	
Benzo(a)anthracene	ug/L	U	0.00625	
Chrysene	ug/L	U	0.00625	
Benzo(b)fluoranthene	ug/L	U	0.00375	
Benzo(k)fluoranthene	ug/L	U	0.00375	
Benzo(a)pyrene	ug/L	U	0.00375	
Dibenzo(a,h)anthracene	ug/L	U	0.00125	
Indeno(1,2,3-cd)pyrene	ug/L	U	0.00375	
Benzo(g,h,i)perylene	ug/L	U	0.00375	

LABORATORY CONTROL SAMPLE & LCSD: 280841 280842

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Semivolatiles by EPA 8270C										
Nitrobenzene-d5 (S)	%				48	50	30-110	3		
2-Fluorobiphenyl (S)	%				56	58	30-110	2		
p-Terphenyl-d14 (S)	%				64	70	30-140	9		
Naphthalene	ug/L	0.201	0.111	0.109	56	55	30-140	2	40	
2-Methylnaphthalene	ug/L	0.201	0.094	0.095	47	47	30-140	1	40	
1-Methylnaphthalene	ug/L	0.202	0.098	0.098	49	49	30-140	0	40	
Acenaphthylene	ug/L	0.2	0.106	0.108	53	54	30-120	2	40	
Acenaphthene	ug/L	0.2	0.112	0.111	56	55	30-120	0.9	40	
Fluorene	ug/L	0.2	0.107	0.103	53	51	30-140	4	40	



**QUALITY CONTROL DATA**

Workorder: 2385536

Project ID: 900 palmetto St., Clw, FL

LABORATORY CONTROL SAMPLE & LCSD: 280841

280842

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Phenanthrene	ug/L	0.202	0.115	0.116	57	58	30-120	0.9	40	
Anthracene	ug/L	0.2	0.099	0.108	49	54	30-140	9	40	
Fluoranthene	ug/L	0.2	0.106	0.109	53	54	30-120	3	40	
Pyrene	ug/L	0.2	0.110	0.118	55	59	40-140	7	40	
Benzo(a)anthracene	ug/L	0.201	0.095	0.099	47	49	30-120	4	40	
Chrysene	ug/L	0.201	0.121	0.129	60	64	30-140	6	40	
Benzo(b)fluoranthene	ug/L	0.202	0.089	0.091	44	45	30-140	2	40	
Benzo(k)fluoranthene	ug/L	0.201	0.096	0.109	48	54	30-140	13	40	
Benzo(a)pyrene	ug/L	0.2	0.082	0.089	41	44	30-140	8	40	
Dibenzo(a,h)anthracene	ug/L	0.201	0.065	0.069	32	35	30-140	6	40	
Indeno(1,2,3-cd)pyrene	ug/L	0.201	0.064	0.067	32	34	30-140	5	40	
Benzo(g,h,i)perylene	ug/L	0.201	0.064	0.070	32	35	30-120	9	40	



**QUALITY CONTROL DATA**

Workorder: 2385536

Project ID: 900 palmetto St., Clw, FL

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QC Batch: XXX/17346 Analysis Method: FL-PRO (GC)  
 QC Batch Method: EPA 3510C  
 Associated Lab Samples: 2385529001 2385532001 2385532002 2385536001 2385536002 2385536003

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METHOD BLANK: 280844

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Semivolatiles by GC				
o-Terphenyl (S)	%	146	66-139	J1
Nonatriacontane (S)	%	122	40-129	
Florida Pro Total	mg/L	U	0.100	

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LABORATORY CONTROL SAMPLE & LCSD: 280845 280846

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Semivolatiles by GC										
o-Terphenyl (S)	%				85	91	66-139	7		
Nonatriacontane (S)	%				119	125	40-129	6		
Florida Pro Total	mg/L	0.68	0.563	0.607	83	89	66-119	8	20	



**QUALITY CONTROL DATA**

Workorder: 2385536

Project ID: 900 palmetto St., Clw, FL

QC Batch:	VXX/11653	Analysis Method:		EPA 8260C		
QC Batch Method:	EPA 5030B					
Associated Lab Samples:	2385476004	2385476005	2385476006	2385476007	2385505001	2385529001
	2385532001	2385532002	2385536001	2385536002	2385536003	

METHOD BLANK: 280934

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
<b>Volatiles by GC/MS</b>				
Dibromofluoromethane (S)	%	106	70-130	
Toluene d8 (S)	%	101	70-130	
4-Bromofluorobenzene (S)	%	107	70-130	
Dichlorodifluoromethane	ug/L	U	0.400	
Chloromethane	ug/L	U	2.50	
Vinyl chloride	ug/L	U	0.400	
Bromomethane	ug/L	U	4.00	
Chloroethane	ug/L	U	0.400	
Trichlorofluoromethane	ug/L	U	0.400	
Acrolein	ug/L	U	8.70	
Acetone	ug/L	U	5.00	
1,1-Dichloroethene	ug/L	U	0.400	
Iodomethane	ug/L	U	0.460	
Acrylonitrile	ug/L	U	4.20	
Methylene chloride	ug/L	U	2.00	
Carbon disulfide	ug/L	U	0.400	
trans-1,2-Dichloroethene	ug/L	U	0.400	
tert-Butyl methyl ether (MTBE)	ug/L	U	0.400	
1,1-Dichloroethane	ug/L	U	0.400	
Vinyl acetate	ug/L	U	0.400	
Methyl ethyl ketone (MEK)	ug/L	U	0.640	
cis-1,2-Dichloroethene	ug/L	U	0.400	
Bromochloromethane	ug/L	U	0.400	
Chloroform	ug/L	U	0.400	
2,2-Dichloropropane	ug/L	U	0.400	
1,2-Dichloroethane	ug/L	U	0.400	
1,1,1-Trichloroethane	ug/L	U	0.400	
1,1-Dichloropropene	ug/L	U	0.400	
Carbon tetrachloride	ug/L	U	0.400	
Benzene	ug/L	U	0.400	
Dibromomethane	ug/L	U	0.400	
1,2-Dichloropropane	ug/L	U	0.400	
Trichloroethene	ug/L	U	0.400	
Bromodichloromethane	ug/L	U	0.400	
cis-1,3-Dichloropropene	ug/L	U	0.400	
4-methyl-2-pentanone	ug/L	U	0.400	
trans-1,3-Dichloropropene	ug/L	U	0.400	

Report ID: 2385536 - 3712396  
4/28/2023

Page 20 of 29

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### QUALITY CONTROL DATA

Workorder: 2385536

Project ID: 900 palmetto St., Clw, FL

METHOD BLANK: 280934

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,1,2-Trichloroethane	ug/L	U	0.400	
Toluene	ug/L	U	0.400	
1,3-Dichloropropane	ug/L	U	0.400	
Ethyl methacrylate	ug/L	U	0.400	
Dibromochloromethane	ug/L	U	0.400	
2-Hexanone	ug/L	U	0.400	
1,2-Dibromoethane (EDB)	ug/L	U	0.400	
Tetrachloroethene	ug/L	U	0.400	
1,1,1,2-Tetrachloroethane	ug/L	U	0.400	
Chlorobenzene	ug/L	U	0.400	
Ethylbenzene	ug/L	U	0.400	
m & p-xylene	ug/L	U	0.400	
Bromoform	ug/L	U	0.550	
t-1,4-Dichloro-2-butene	ug/L	U	0.410	
Styrene	ug/L	U	0.400	
1,1,1,2,2-Tetrachloroethane	ug/L	U	0.200	
o-Xylene	ug/L	U	0.400	
1,2,3-Trichloropropane	ug/L	U	0.400	
cis-1,4-Dichloro-2-butene	ug/L	U	0.440	
Isopropylbenzene (Cumene)	ug/L	U	0.400	
Bromobenzene	ug/L	U	0.400	
n-propylbenzene	ug/L	U	0.400	
2-Chlorotoluene	ug/L	U	0.400	
1,3,5-Trimethylbenzene	ug/L	U	0.400	
4-Chlorotoluene	ug/L	U	0.400	
tert-Butylbenzene	ug/L	U	0.400	
1,2,4-Trimethylbenzene	ug/L	U	0.400	
sec-Butylbenzene	ug/L	U	0.400	
1,3-Dichlorobenzene	ug/L	U	0.400	
1,4-Dichlorobenzene	ug/L	U	0.400	
4-Isopropyltoluene	ug/L	U	0.400	
1,2-Dichlorobenzene	ug/L	U	0.400	
n-Butylbenzene	ug/L	U	0.400	
1,2-DBCP	ug/L	U	0.550	
1,2,4-Trichlorobenzene	ug/L	U	1.00	
Naphthalene	ug/L	U	2.00	
Hexachlorobutadiene	ug/L	U	1.00	
1,2,3-Trichlorobenzene	ug/L	U	0.400	
Xylenes- Total	ug/L	U	0.800	





**QUALITY CONTROL DATA**

Workorder: 2385536

Project ID: 900 palmetto St., Clw, FL

LABORATORY CONTROL SAMPLE & LCSD: 280935

280936

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Volatiles by GC/MS										
Dibromofluoromethane (S)	%				100	95	70-130	4	25	
Toluene d8 (S)	%				102	100	70-130	1	25	
4-Bromofluorobenzene (S)	%				100	97	70-130	3	25	
Dichlorodifluoromethane	ug/L	50	82.6	86.7	165	173	60-130	5	25	J3a
Chloromethane	ug/L	50	63.1	74.9	126	150	60-130	17	25	J3a
Vinyl chloride	ug/L	50	52.0	53.6	104	107	70-130	3	25	
Bromomethane	ug/L	50	59.0	67.1	118	134	60-130	13	25	J3a
Chloroethane	ug/L	50	52.4	61.2	105	122	70-130	15	25	
Trichlorofluoromethane	ug/L	50	54.3	56.3	109	113	70-130	4	25	
Acetone	ug/L	50.2	45.4	50.2	91	100	60-130	10	25	
1,1-Dichloroethene	ug/L	50	61.5	63.5	123	127	70-130	3	25	
Iodomethane	ug/L	50	47.3	54.3	95	109	60-130	14	25	
Methylene chloride	ug/L	50	53.9	54.2	108	108	60-130	0.6	25	
Carbon disulfide	ug/L	50	59.3	61.3	119	123	60-130	3	25	
trans-1,2-Dichloroethene	ug/L	50	54.1	54.4	108	109	70-130	0.6	25	
tert-Butyl methyl ether (MTBE)	ug/L	50.5	50.9	53.3	101	106	70-130	5	25	
1,1-Dichloroethane	ug/L	50	52.9	54.9	106	110	70-130	4	25	
Vinyl acetate	ug/L	50	95.5	91.9	191	184	60-130	4	25	J3a
Methyl ethyl ketone (MEK)	ug/L	50.2	42.9	40.6	85	81	70-130	6	25	
cis-1,2-Dichloroethene	ug/L	50	52.5	51.7	105	103	70-130	2	25	
Bromochloromethane	ug/L	50	53.4	52.4	107	105	70-130	2	25	
Chloroform	ug/L	50	53.8	52.8	108	106	70-130	2	25	
2,2-Dichloropropane	ug/L	50	65.2	65.0	130	130	50-130	0.3	25	
1,2-Dichloroethane	ug/L	50	51.0	49.6	102	99	70-130	3	25	
1,1,1-Trichloroethane	ug/L	50	58.0	56.2	116	112	70-130	3	25	
1,1-Dichloropropene	ug/L	50	55.4	55.2	111	110	70-130	0.4	25	
Carbon tetrachloride	ug/L	50	59.5	59.6	119	119	60-130	0.2	25	
Benzene	ug/L	50	54.3	54.7	109	109	70-130	0.7	25	
Dibromomethane	ug/L	50	51.9	50.7	104	101	70-130	2	25	
1,2-Dichloropropane	ug/L	50	54.0	54.3	108	109	70-130	0.6	25	
Trichloroethene	ug/L	50	51.8	50.2	104	100	70-130	3	25	
Bromodichloromethane	ug/L	50	57.1	55.3	114	111	70-130	3	25	
cis-1,3-Dichloropropene	ug/L	50	57.5	56.6	115	113	60-130	2	25	
4-methyl-2-pentanone	ug/L	50.1	48.3	47.7	96	95	60-130	1	25	
trans-1,3-Dichloropropene	ug/L	50	56.7	58.6	113	117	60-130	3	25	
1,1,2-Trichloroethane	ug/L	50	51.2	52.4	102	105	70-130	2	25	
Toluene	ug/L	50	52.0	53.4	104	107	70-130	3	25	
1,3-Dichloropropane	ug/L	50	54.0	52.9	108	106	70-130	2	25	
Ethyl methacrylate	ug/L	50	57.2	55.0	114	110	70-130	4	25	
Dibromochloromethane	ug/L	50	56.5	57.2	113	114	70-130	1	25	
2-Hexanone	ug/L	50.1	50.4	48.8	101	97	70-130	3	25	
1,2-Dibromoethane (EDB)	ug/L	50	54.5	54.5	109	109	70-130	0	25	



**QUALITY CONTROL DATA**

Workorder: 2385536

Project ID: 900 palmetto St., Clw, FL

LABORATORY CONTROL SAMPLE & LCSD:		280935	280936							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Tetrachloroethene	ug/L	50	41.4	47.3	83	95	70-130	13	25	
1,1,1,2-Tetrachloroethane	ug/L	50	58.4	57.8	117	116	70-130	1	25	
Chlorobenzene	ug/L	50	53.0	55.0	106	110	70-130	4	25	
Ethylbenzene	ug/L	50	56.0	55.9	112	112	70-130	0.2	25	
m & p-xylene	ug/L	100	108	110	108	110	70-130	2	25	
Bromoform	ug/L	50	56.8	55.5	114	111	70-130	2	25	
t-1,4-Dichloro-2-butene	ug/L	50	56.4	52.8	113	106	60-130	7	25	
Styrene	ug/L	50	58.1	58.4	116	117	70-130	0.5	25	
1,1,2,2-Tetrachloroethane	ug/L	50	57.3	55.7	115	111	70-130	3	25	
o-Xylene	ug/L	50	54.2	55.6	108	111	70-130	3	25	
1,2,3-Trichloropropane	ug/L	50	51.9	50.5	104	101	70-130	3	25	
cis-1,4-Dichloro-2-butene	ug/L	50	54.6	50.7	109	101	60-130	7	25	
Isopropylbenzene (Cumene)	ug/L	50	53.6	54.7	107	109	70-130	2	25	
Bromobenzene	ug/L	50	52.1	53.4	104	107	70-130	2	25	
n-propylbenzene	ug/L	50	51.3	52.8	103	106	70-130	3	25	
2-Chlorotoluene	ug/L	50	51.6	51.8	103	104	70-130	0.4	25	
1,3,5-Trimethylbenzene	ug/L	50	52.0	52.2	104	104	70-130	0.4	25	
4-Chlorotoluene	ug/L	50	51.8	54.0	104	108	70-130	4	25	
tert-Butylbenzene	ug/L	50	52.0	51.7	104	103	70-130	0.6	25	
1,2,4-Trimethylbenzene	ug/L	50	48.5	49.4	97	99	70-130	2	25	
sec-Butylbenzene	ug/L	50	49.1	49.8	98	100	70-130	1	25	
1,3-Dichlorobenzene	ug/L	50	51.6	53.3	103	107	70-130	3	25	
1,4-Dichlorobenzene	ug/L	50	53.2	53.3	106	107	70-130	0.2	25	
4-Isopropyltoluene	ug/L	50	51.7	50.1	103	100	70-130	3	25	
1,2-Dichlorobenzene	ug/L	50	51.3	50.3	103	101	70-130	2	25	
n-Butylbenzene	ug/L	50	48.3	49.1	97	98	70-130	2	25	
1,2-DCBP	ug/L	50	53.2	49.4	106	99	60-130	7	25	
1,2,4-Trichlorobenzene	ug/L	50	47.6	49.8	95	100	70-130	5	25	
Naphthalene	ug/L	50	43.4	44.6	87	89	70-130	3	25	
Hexachlorobutadiene	ug/L	50	50.9	52.0	102	104	70-130	2	25	
1,2,3-Trichlorobenzene	ug/L	50	46.0	47.2	92	94	70-130	3	25	
Xylenes- Total	ug/L	150	162	166	108	110	70-130	2	25	

LABORATORY CONTROL SAMPLE & LCSD:		280937	280938							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Volatiles by GC/MS										
Dibromofluoromethane (S)	%				99	108	70-130	9	25	
Toluene d8 (S)	%				99	101	70-130	2	25	
4-Bromofluorobenzene (S)	%				100	101	70-130	0.7	25	
Acrolein	ug/L	250	260	237	104	95	60-130	9	25	
Acrylonitrile	ug/L	250	232	213	93	85	60-130	9	25	



**QUALITY CONTROL DATA**

Workorder: 2385536

Project ID: 900 palmetto St., Clw, FL

SAMPLE DUPLICATE: 280939

Original: 2385532001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
Volatiles by GC/MS						
Dibromofluoromethane (S)	%	44.8		3	25	
Toluene d8 (S)	%	41.9		5	25	
4-Bromofluorobenzene (S)	%	42.6		3	25	
Dichlorodifluoromethane	ug/L	U	U	0	25	
Chloromethane	ug/L	U	U	0	25	
Vinyl chloride	ug/L	U	U	0	25	
Bromomethane	ug/L	U	U	0	25	
Chloroethane	ug/L	U	U	0	25	
Trichlorofluoromethane	ug/L	U	U	0	25	
Acrolein	ug/L	U	U	0	25	
Acetone	ug/L	U	U	0	25	
1,1-Dichloroethene	ug/L	U	U	0	25	
Iodomethane	ug/L	U	U	0	25	
Acrylonitrile	ug/L	U	U	0	25	
Methylene chloride	ug/L	U	U	0	25	
Carbon disulfide	ug/L	U	U	0	25	
trans-1,2-Dichloroethene	ug/L	U	U	0	25	
tert-Butyl methyl ether (MTBE)	ug/L	U	U	0	25	
1,1-Dichloroethane	ug/L	U	U	0	25	
Vinyl acetate	ug/L	U	U	0	25	
Methyl ethyl ketone (MEK)	ug/L	U	U	0	25	
cis-1,2-Dichloroethene	ug/L	U	U	0	25	
Bromochloromethane	ug/L	U	U	0	25	
Chloroform	ug/L	U	U	0	25	
2,2-Dichloropropane	ug/L	U	U	0	25	
1,2-Dichloroethane	ug/L	U	U	0	25	
1,1,1-Trichloroethane	ug/L	U	U	0	25	
1,1-Dichloropropene	ug/L	U	U	0	25	
Carbon tetrachloride	ug/L	U	U	0	25	
Benzene	ug/L	U	U	0	25	
Dibromomethane	ug/L	U	U	0	25	
1,2-Dichloropropane	ug/L	U	U	0	25	
Trichloroethene	ug/L	U	U	0	25	
Bromodichloromethane	ug/L	U	U	0	25	
cis-1,3-Dichloropropene	ug/L	U	U	0	25	
4-methyl-2-pentanone	ug/L	U	U	0	25	
trans-1,3-Dichloropropene	ug/L	U	U	0	25	
1,1,2-Trichloroethane	ug/L	U	U	0	25	
Toluene	ug/L	U	U	0	25	



**QUALITY CONTROL DATA**

Workorder: 2385536

Project ID: 900 palmetto St., Clw, FL

SAMPLE DUPLICATE: 280939

Original: 2385532001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
1,3-Dichloropropane	ug/L	U	U	0	25	
Ethyl methacrylate	ug/L	U	U	0	25	
Dibromochloromethane	ug/L	U	U	0	25	
2-Hexanone	ug/L	U	U	0	25	
1,2-Dibromoethane (EDB)	ug/L	U	U	0	25	
Tetrachloroethene	ug/L	U	U	0	25	
1,1,1,2-Tetrachloroethane	ug/L	U	U	0	25	
Chlorobenzene	ug/L	U	U	0	25	
Ethylbenzene	ug/L	U	U	0	25	
m & p-xylene	ug/L	U	U	0	25	
Bromoform	ug/L	U	U	0	25	
t-1,4-Dichloro-2-butene	ug/L	U	U	0	25	
Styrene	ug/L	U	U	0	25	
1,1,2,2-Tetrachloroethane	ug/L	U	U	0	25	
o-Xylene	ug/L	U	U	0	25	
1,2,3-Trichloropropane	ug/L	U	U	0	25	
cis-1,4-Dichloro-2-butene	ug/L	U	U	0	25	
Isopropylbenzene (Cumene)	ug/L	U	U	0	25	
Bromobenzene	ug/L	U	U	0	25	
n-propylbenzene	ug/L	U	U	0	25	
2-Chlorotoluene	ug/L	U	U	0	25	
1,3,5-Trimethylbenzene	ug/L	U	U	0	25	
4-Chlorotoluene	ug/L	U	U	0	25	
tert-Butylbenzene	ug/L	U	U	0	25	
1,2,4-Trimethylbenzene	ug/L	U	U	0	25	
sec-Butylbenzene	ug/L	U	U	0	25	
1,3-Dichlorobenzene	ug/L	U	U	0	25	
1,4-Dichlorobenzene	ug/L	U	U	0	25	
4-Isopropyltoluene	ug/L	U	U	0	25	
1,2-Dichlorobenzene	ug/L	U	U	0	25	
n-Butylbenzene	ug/L	U	U	0	25	
1,2-DBCP	ug/L	U	U	0	25	
1,2,4-Trichlorobenzene	ug/L	U	U	0	25	
Naphthalene	ug/L	U	U	0	25	
Hexachlorobutadiene	ug/L	U	U	0	25	
1,2,3-Trichlorobenzene	ug/L	U	U	0	25	
Xylenes- Total	ug/L	U	U	0	25	



**QUALITY CONTROL DATA**

Workorder: 2385536

Project ID: 900 palmetto St., Clw, FL

QC Batch:	MXX/15256	Analysis Method:		EPA 200.8 (Total)		
QC Batch Method:	EPA 200.2 mod.					
Associated Lab Samples:	2384951013	2384951019	2384951027	2385536001	2385536002	2385536003
	2385537046	2385539001	2385539002	2385539003	2385539004	2385539005
	2385539006					

METHOD BLANK: 280960

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Chromium	ug/L	U	0.067	
Arsenic	ug/L	U	0.16	
Selenium	ug/L	U	0.52	
Silver	ug/L	U	0.20	
Cadmium	ug/L	U	0.071	
Barium	ug/L	U	0.076	
Mercury	ug/L	U	0.18	
Lead	ug/L	U	0.29	

LABORATORY CONTROL SAMPLE & LCSD: 280961 280962

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Chromium	ug/L	50	48	48	95.4	96.4	85-115	0	20	
Arsenic	ug/L	50	48	49	95.3	97.2	85-115	2.06	20	
Selenium	ug/L	50	48	48	95.5	96	85-115	0	20	
Silver	ug/L	50	45	45	89.8	89.7	85-115	0	20	
Cadmium	ug/L	50	44	45	88.8	89.1	85-115	2.25	20	
Barium	ug/L	50	48	48	95.6	96.2	85-115	0	20	
Mercury	ug/L	5	4.4	4.4	87.5	88.5	85-115	0	20	
Lead	ug/L	50	47	47	94	94.2	85-115	0	20	

MATRIX SPIKE SAMPLE: 280964 Original: 2385539001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium	ug/L	5.7	50	51	90.6	70-130	
Arsenic	ug/L	2.6	50	52	98.6	70-130	
Selenium	ug/L	1.2	50	54	106	70-130	
Silver	ug/L	0.024	50	42	83.5	70-130	
Cadmium	ug/L	0.048	50	43	85.3	70-130	
Barium	ug/L	9.6	50	60	101	70-130	
Mercury	ug/L	0	20	16	80.3	70-130	

Report ID: 2385536 - 3712396  
4/28/2023

NELAP Accredited

**FDOH# E86546**

**CERTIFICATE OF ANALYSIS**

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**QUALITY CONTROL DATA**

Workorder: 2385536

Project ID: 900 palmetto St., Clw, FL

MATRIX SPIKE SAMPLE: 280964

Original: 2385539001

Parameter	Units	Original Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	0.25	50	40	79.6	70-130	

SAMPLE DUPLICATE: 280963

Original: 2385539001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
Chromium	ug/L	5.7	5.9	3.45	20	
Arsenic	ug/L	2.6	2.4	8	20	
Selenium	ug/L	U	5.2	0	20	
Silver	ug/L	U	U	0	20	
Cadmium	ug/L	U	U	0	20	
Barium	ug/L	9.6	9.5	1.05	20	
Mercury	ug/L	U	U	0	20	
Lead	ug/L	U	U	0	20	



## QUALITY CONTROL DATA QUALIFIERS

Workorder: 2385536

Project ID: 900 palmetto St., Clw, FL

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## QUALITY CONTROL PARAMETER QUALIFIERS

- J1 Surrogate recovery was outside defined limits.
- J3a LCS value exceeded accuracy control limits which could bias high sample results; however, sample data is non detect and was not impacted.



### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 2385536

Project ID: 900 palmetto St., Clw, FL

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2385536001	TMW-1	EPA 3510C SIM	XXX/17345	EPA 8270/PAH SIM	XMS/8803
2385536002	TMW-2	EPA 3510C SIM	XXX/17345	EPA 8270/PAH SIM	XMS/8803
2385536003	TMW-3	EPA 3510C SIM	XXX/17345	EPA 8270/PAH SIM	XMS/8803
2385536001	TMW-1	EPA 3510C	XXX/17346	FL-PRO (GC)	XGCP/6047
2385536002	TMW-2	EPA 3510C	XXX/17346	FL-PRO (GC)	XGCP/6047
2385536003	TMW-3	EPA 3510C	XXX/17346	FL-PRO (GC)	XGCP/6047
2385536001	TMW-1	EPA 5030B	VXX/11653	EPA 8260C	VMS/11476
2385536002	TMW-2	EPA 5030B	VXX/11653	EPA 8260C	VMS/11476
2385536003	TMW-3	EPA 5030B	VXX/11653	EPA 8260C	VMS/11476
2385536001	TMW-1	EPA 200.2 mod.	MXX/15256	EPA 200.8 (Total)	MMS/13560
2385536002	TMW-2	EPA 200.2 mod.	MXX/15256	EPA 200.8 (Total)	MMS/13560
2385536003	TMW-3	EPA 200.2 mod.	MXX/15256	EPA 200.8 (Total)	MMS/13560





Company Name <b>Stantec</b>						<b>LAB ANALYSIS</b>										Requested Turnaround Time						
Address <b>320 Park Pl Blvd</b>						Pres Codes											Note: Rush requests subject to acceptance by the laboratory					
City <b>Clearwater</b> State <b>FL</b> Zip <b>33759</b>						Parameters	VOC 8260B	LL PAHs 8270C	8 PCBs metals	TRPH FL-PCB											<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Expedited	
Sampling Site Address <b>900 Palmetto St, Clw, FL</b>						Field Filtered (Y/N)											Due <u>  </u> / <u>  </u> / <u>  </u>					
Attn: <b>Shawn Lasseter</b> Email <b>Shawn.Lasseter@stantec.com</b>						Project Name											Comments					
Project # _____						Sampler Name/Signature																
Sampler Name/Signature <b>Alex Jones</b> <i>[Signature]</i>						#	Sample Label (Client ID)	Collected Date	Collected Time	Matrix Code*	# of Cont											
1	Tmw-1	4/21	1023	Gw	6	X	X	X	X													
2	Tmw-2	4/21	1108	Gw	6	X	X	X	X													
3	Tmw-3	4/21	1205	Gw	6	X	X	X	X													
4																						
5																						
6																						
7																						
8																						
9																						
0																						

<b>Matrix Codes*</b>		<b>Pres Codes</b>		Relinquished by		Date		Time		Received by		Date		Time			
S Soil/Solid Sediment	SW Surface Water	A- none	I- Ice	<i>[Signature]</i> / Stantec		4/21		1345		<i>[Signature]</i>		4/21/23		1345			
GW Ground Water	SL Sludge	B- HNO <sub>3</sub>	O- Other														
WW Waste Water	O Other (Please Specify)	C- H <sub>2</sub> SO <sub>4</sub>	M- MeOH			<i>[Signature]</i>		4/21/23		1900		FLA		4/21/23		1900	
DW Drinking Water		D- NaOH	N- Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>														
		E- HCl	Z- ZnAc														
QA/QC level with report None <u>  </u> 1 <u>  </u> 2 <u>  </u> 3 <u>  </u> See price guide for applicable fees				Temp Control:						<i>[Signature]</i>		4/22/23		1100 0715			
FDEP Dry Cleaning <input type="checkbox"/>		FDEP UST Pre-Approval <input type="checkbox"/>		SFWMD <input type="checkbox"/>		ADaPT <input type="checkbox"/>		DOT <input type="checkbox"/>		0.7 °C							

# SAMPLE RECEIPT CONFIRMATION SHEET

## Client Information

SDG: 2385536	Profile: 2383
Client: Cardno TBE	Project: S. Lasseter
Level: 1	Date Rec'd: 4/22/2023 7:15:00 AM
Rec'd via: courier	

## Cooler Check

ID	Temp (C)	# of samples	Arrived on Ice	Security Tape		Comments	Temp Gun ID
				Present	Intact		
	0.7	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		Temp Gun 2

Checked By: LLL

## Sample Verification

Loose Caps?	No	All Samples on COC accounted For?	Yes
Broken Containers?	No	All Samples on COC?	Yes
pH Verified?	Yes	Written on Internal COC?	No
pH Strip Lot #	HC203864	Sample Vol. Suff. For Analysis?	Yes
Acid Preserved Samples Lot #	24674, 22633	Samples Rec'd W/ Hold Time?	Yes
Base Preserved Samples Lot #		Are All Samples to be Analyzed?	Yes
Samples Received From	courier	Correct Sample Containers?	Yes
Soil Origin (Domestic/Foreign)		COC Comments written on COC?	No
Site Location/Project on COC?	Yes	Samplers Initials on COC?	Yes
Client Project # on COC?	Yes	Sample Date/Time Indicated?	Yes
Project Mgr. Indicated on COC	Yes	TAT Requested:	STD
COC relinquished/Dated by Client?	Yes	Client Requests Verbal Results?	No
COC Received/Dated by JEL	Yes	Client Notified of discrepancies?	No
JEL to Conduct ALL Analyses?	Yes	Do VOC vials have headspace or a bubble >6mm (1/4")?	No
Number of Encores	0	Number of Lab Filtered Metals	0

Label Check to confirm JEL ID matches Client ID performed by JJJ on 4/22/23

## Subcontract Analysis

Parameter	Via	Lab Name	Comments
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