UNIVERSAL

ENGINEERING SCIENCES

RESULTS OF SAMPLING & ANALYSIS OF
SOIL AND GROUNDWATER
PELICAN COAST (FORMER SOUTH HOUSING)
Conducted on

Patrick Space Force Base
Brevard County, Florida

UES Project No. 0340.2100012.0000
UES Report No. 1855685

Prepared for:

Rhodes + Brito Architects
605 East Robins Street, Suite 750
Orlando, Florida 32801
Attn: Mr. Charles D. Johnson, Jr., P.E., REM, PMP

Prepared by:

Universal Engineering Sciences
820 Brevard Avenue
Rockledge, Florida 32955
(321) 638-0808
www.UniversalEngineering.com

Report Date: April 30, 2021

UNIVERSAL
ENGINEERING SCIENCES
Consultants In: Geotechnical Engineering • Environmental Sciences
Geophysical Services • Construction Materials Testing • Threshold Inspection
Building Inspection • Plan Review • Building Code Administration

LOCATIONS:
- Atlanta
- Daytona Beach
- Fort Myers
- Fort Pierce
- Gainesville
- Jacksonville
- Miami
- Ocala
- Orlando (Headquarters)
- Palm Coast
- Panama City
- Pensacola
- Rockledge
- Sarasota
- Tampa
- Tifton
- West Palm Beach

April 30, 2021

Rhodes + Brito Architects
605 East Robins Street, Suite 750
Orlando, Florida 32801

Attention: Mr. Charles D. Johnson, Jr., P.E., REM, PMP
charles@rbarchitects.com

Reference: **RESULTS OF SAMPLING & ANALYSIS OF SOIL AND GROUNDWATER**
PELICAN COAST (FORMER SOUTH HOUSING)
Patrick Space Force Base
Brevard County, Florida
UES Project No. 0340.2100012.0000
UES Report No. 1855685

Dear Mr. Johnson:

On behalf of Rhodes + Brito Architects (the "client"), Universal Engineering Sciences (UES) has completed the requested sampling and analysis of the soil and groundwater at the above-referenced property. The work scope of this limited assessment was developed based upon conversations with Charles D. Johnson, Jr., of Rhodes + Brito Architects and review of the provided Performance Work Statement (PWS) for this project. The purpose of this assessment was to sample, analyze and report the presence of organochlorine pesticides (OCPs) in soil and per- and polyfluoroalkyl substances (PFAS), volatile organic compounds (VOCs), and OCPs in groundwater at Pelican Coast (Former South Housing). As requested, the scope of this assessment included the collection of eighteen (18) soil samples from nine (9) locations and groundwater from eight (8) locations, as directed by military personnel. In addition, a QA/QC "field blank" was included in the sampling process to assist in data validation.

Organochloride pesticides were detected in several soil samples; however, all concentrations were below the Florida Department of Environmental Protection (FDEP) soil cleanup target levels. No organochlorine pesticides were detected in the groundwater samples and 4-isopropyltoluene was the only volatile organic compound detected in the groundwater. There is not a published FDEP groundwater cleanup target level for this compound. Various PFAS compounds were detected within seven (7) of the eight (8) groundwater samples analyzed. Combined concentrations of PFOA and PFOS were reported above the USEPA drinking water lifetime health advisory level of 70 ng/L, a benchmark for regulatory screening purposes, in four (4) of the samples. None of the tested PFAS constituents were detected above their respective laboratory MDLs within the field blank sample.

UES appreciates this opportunity to provide environmental services to you and we look forward to future endeavors. If you have any comments or questions regarding the information contained within this report or if we can be of further service, please contact the undersigned.

Respectfully submitted,
Universal Engineering Sciences

Teresa R. Hardy, P.G., PMP
Senior Project Manager
Florida PG License 1942

Reviewed By:

Richard E Hoaglin
2021.04.30
14:56:20 -04'00'

Richard E. Hoaglin, P.E.
Regional Manager
Florida Registration No. 48796

TABLE OF CONTENTS

LIST OF APPENDICES

1.0 INTRODUCTION

Universal Engineering Sciences (UES) was retained by Rhodes + Brito Architects (the "client") to conduct sampling and analysis of soil and groundwater sampling at Pelican Coast (Former South Housing) for the United States Space Force, 45th Space Wing. Pelican Coast is a residential area, south of Patrick Space Force Base (PSFB), located along the east-central Florida coastline, in Satellite Beach, Brevard County, Florida. Please refer to the United States Geologic Survey (USGS) Topographic Map (Site Location Map) presented as Figure 1 in **Appendix A**.

The subject site was first developed as a military housing community between 1957 and 1959. The development included 550 Capehart housing units, ball fields and open recreation, a community center with a Chapel, youth center, satellite base exchange, and a fire station (which was decommissioned sometime prior to 1970). The use of the site remained largely unchanged until 2003 when the housing was privatized. The Capehart housing on the western portion of the site was demolished in 2005 to begin construction of new single family rental homes. The project was halted in 2007 due to financial problems with only 156 or the 545 planned homes completed. The privatization project was sold to a second developer who demolished the remaining Capehart houses on the central and eastern portions of the site in 2008, but did not construct any new housing. This portion of the site still remains undeveloped today (Installation Management Flight, 45th Civil Engineer Squadron, Patrick Space Force Base). The Site Map included as Figure 2 in Appendix A shows an aerial of the current Pelican Coast site overlain with the original Capehart housing footprint for reference.

The work scope of this limited assessment was developed based upon conversations with Charles D. Johnson, Jr., of Rhodes + Brito Architects and review of the provided Performance Work Statement (PWS) for this project. The PWS is included in **Appendix B**. The purpose of this assessment was to sample, analyze and report the presence or absence of organochlorine pesticides (OCPs) in soil and presence or absence of OCPs, volatile organic compounds (VOCs), and per- and polyfluoroalkyl substances (PFAS) in groundwater at Pelican Coast.

As requested, the scope of this assessment included the collection of eighteen (18) soil samples from nine (9) locations and groundwater from eight (8) temporary well locations spread across Pelican Coast. A summary of our fieldwork and findings is presented in the following sections of this report.

2.0 SOIL AND GROUNDWATER QUALITY ASSESSMENT

2.1 SOIL SAMPLING AND COLLECTION METHODOLOGY

On March 15, 2021, UES collected soil samples from nine (9) locations at Pelican Coast (Former South Housing). Two (2) samples were collected from each sample location, one sample from a depth of 0 to 6 inches below land surface (bls) and one sample from a depth of 6 inches to 18 inches bls. The samples were collected using a stainless steel hand-auger which was properly decontaminated between sample points. The locations are shown on **Figure 3** provided in **Appendix A**.

The samples were placed in laboratory supplied sample containers and placed on ice prior to delivery to ENCO Laboratories (ENCO), a National Environmental Laboratory Accreditation Conference (NELAC) approved laboratory, in Orlando, Florida. The samples were analyzed for the following:

- Organochlorine pesticides by US EPA Method 8081 B

2.2 GROUNDWATER SAMPLING AND COLLECTION METHODOLOGY

On March 16, 2021, a Universal representative collected groundwater samples from eight (8) temporary monitoring wells in accordance with the Florida Department of Environmental Department (FDEP) Standard Operating Procedures. The screen depths ranged from 3.5 feet bls to 9 feet bls. The groundwater sample locations are illustrated on **Figure 4** provided in **Appendix A**.

The shallow groundwater samples at each of Universal's soil boring locations were collected utilizing a protected screen system which was advanced to the desired sampling depths via direct-push methods. Upon reaching the sampling depth, a protective sheath is withdrawn from the stainless steel sampling tool in order to expose the water intake screen and permit collection of groundwater samples from the discrete depth interval of interest. The samples were collected using dedicated high density polyethylene (HDPE) tubing and a peristaltic pump. The volume of purge water was doubled when calculated in error; however, over-purging of a well ensures that all of the sediment is removed from the well before sampling. Field groundwater quality data were measured and recorded during the purging and sampling

at each temporary well location, as required by FDEP Standard Operating Procedures (SOPs), using a Horiba U-22 water quality meter. Copies of the March 16, 2021 groundwater sampling logs, "Field Form FD 9000-24 (DEP-SOP-00/01)", are included in **Appendix E**.

A QA/QC "field blank" was included in the sampling process to assist in data validation for the analyses. The field blank was prepared on-site near the location of groundwater sample GW3 and was identified as FB1.

The samples were collected into laboratory supplied containers, placed into an ice-packed cooler and transported under proper chain-of-custody documentation to ENCO and GEL Laboratories, NELAP certified laboratories, for the analyses listed below:

- Per- and polyfluoroalkyl substances (PFAS) using USEPA Method 537 as directed by the Department of Defense's Quality Service Manual version 5.1 (DoD QSM 5.1) which includes PFOS, PFOA and 22 other PFAS compounds
- Organochlorine pesticides using EPA Method 8081 B
- Volatile Organic Compounds using EPA Method 8260 D

Note that Per- and Polyfluoroalkyl Substances (PFAS) compounds, including PFOA and PFOS, have been used in a wide variety of common materials primarily to make them waterproof, stain-resistant or non-stick, such as the examples on the following list, which is not intended to be all inclusive:

- Teflon/Coating Additives for Non-stick Cookware
- Household Cleaning Products
- Fast Food Containers/Packaged Food Containers
- Candy Wrappers
- Cosmetics (Nail Polish, Eye Makeup)
- Sprays for Leather
- Carpet and Furniture Treatments (stain-resistant)
- Shoes and Clothing (outdoor)
- Shampoo
- Dental Floss
- Floor Wax
- Paints, Varnishes, Polishes
- Pesticides
- Textiles
- Electronics
- Microwave Popcorn Bags

The items listed in the table on the following page were "prohibited" at the sampling locations during sampling events.

"PROHIBITED" MATERIALS AND EQUIPMENT
Teflon®-containing materials, when possible, should be avoided (e.g., tubing, bailers, tape, and plumbing paste). In cases where Teflon®-containing materials are unavoidable, ensure adequate purging is performed prior to sampling (e.g., in-well pumps) and/or rinse blanks are collected prior to sampling.
LDPE or polypropylene containing materials (e.g., bags or containers used to transport samples)
Paper products such as waterproof field books, plastic clipboards, binders, spiral hard cover notebooks, sticky notes or glue materials
Markers
Chemical (blue) ice packs
Decontamination soaps containing fluoro-surfactants such as Decon 90
Water that is not verified to be "PFAS-free" to be used for trip and decontamination blanks and decontamination processes
Water resistant, waterproof, stain-treated clothing or shoes including Gore-Tex™ and Tyvek® materials
Wearing of cosmetics, moisturizers, hand cream, sunblock, insect repellents or other related products
Food and/or drinks

As part of UES' sampling protocols for this project, the following assumptions have been made:

1. Sampling areas were clear of items that might affect sample quality via inadvertent introduction of "prohibited" materials.

2. Laboratory analytical services were provided under standard QA/QC protocol and no Superfund CLP (Contract Laboratory Program) or other stringent requirements were necessary.

3. All sample containers provided by the testing laboratory were new, made of proper material and of proper volume.

4. General sampling materials and equipment conformed to those listed by the EPA as tabulated below:

RECOMMENDED SAMPLING MATERIALS AND EQUIPMENT
HDPE and silicon Materials include: tubing, bailers, tape, plumbing paste
Acetate liners for direct push technologies

Nitrile gloves – change often
Loose paper with Masonite or aluminum clipboards
Pens
Bags of ice
Alconox® or Liquinox®
Laboratory supplied and verified "PFAS-free" water to be used for trip and decontamination blanks and decontamination processes
Cotton construction is recommended for field clothing and should be laundered a minimum of 6 times from time of purchase due to possible PFAS related treatments. Fabric softener must be avoided. Rain gear should be made from polyurethane and wax-coated materials

3.0 FINDINGS

3.1 SOIL ANALYTICAL RESULTS

The following organochlorine pesticides were detected in seven of the eighteen soil samples collected during this assessment: 4,4'-DDD, 4,4'-DDE, 4,4'-DDT and chlordane-alpha and chlordane-gamma, however, the concentrations detected were below the FDEP soil cleanup target levels (SCTLs) in all samples. The soil organochlorine pesticide analytical data is expressed in tabular format on **Table 1** in **Appendix C** and are shown on **Figure 3** in **Appendix A**. The soil laboratory analytical reports and associated chain-of-custody documentation is presented in **Appendix D**.

3.2 GROUNDWATER ANALYTICAL RESULTS

3.2.1 ORGANOCHLORINE PESTICIDES (OCPS)

There were no organochlorine pesticides detected above the laboratory method detection limits (MDLs) in the eight groundwater samples collected during this assessment. The groundwater laboratory analytical reports and associated chain-of-custody documentation is presented in **Appendix D**.

3.2.2 VOLATILE ORGANIC COMPOUNDS (VOCS)

There were no volatile organic compounds detected above the laboratory detection limits in the eight groundwater samples collected during this assessment with the exception of 4-isopropyltoluene which was detected in samples GW1 (5.5 micrograms per liter [ug/L]) and GW2 (1.4 ug/L). There is no FDEP groundwater cleanup level (GCTL) currently for 4-isopropyltoluene. The results are presented on **Figure 4**

in **Appendix A**. The groundwater laboratory analytical reports and associated chain-of-custody documentation is presented in **Appendix D**.

3.2.3 PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS)

Seven (7) of the eight (8) groundwater sample locations (GW-2 thorugh GW8) contained various PFAS compounds. Review of the groundwater analytical results documented the detection of various per- and polyfluoroalkyl substances (PFAS) within seven (7) of the eight groundwater samples analyzed. The PFAS detections are illustrated on **Figure 5** provided in **Appendix A** and summarized in the following sections.

Note that the State of Florida has not established groundwater cleanup criteria for PFAS compounds. However, in May 2016 the USEPA issued a drinking water lifetime health advisory for the two compounds perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS). The drinking water lifetime health advisory level was established at a combined concentration of 70 parts per trillion or nanograms per liter (ng/L). Due to the lack of state established groundwater cleanup criteria, the USEPA health advisory is referenced herein a benchmark for regulatory screening purposes. Some of the sample results were flagged with a "J" which indicates that the value is estimated.

Combined PFOS and PFOA concentrations are summarized in the following table for screening purposes:

Sample ID	PFOS Concentration (ng/L)	PFOA Concentration (ng/L)	Combined PFOS + PFOA Concentrations (ng/L)
GW1	16.2	ND	16.2
GW2	0.793 J	ND	0.793 J
GW3	97.5	14	111.5
GW4	53.2	3.28	56.48
GW5	391	15.4	406.4
GW6	21.7	57.6	79.3
GW-7	27.8	5.45	33.25
GW8	113	6.62	119.62
FB1	ND	ND	NA
USEPA Drinking Water Health Advisory (ng/L)			70

The analytical results indicate that PFOA and PFOS were detected in samples GW3, GW5, GW6 and GW8 at combined concentrations which are above the USEPA drinking water lifetime health advisory level of 70 ng/L.

In addition, a QA/QC "field blank" was included in the sampling process to assist in data validation. The field blank was prepared on-site near the location of groundwater sample GW3. Review of the analytical results indicate that none of the tested constituents were detected above their respective laboratory MDLs within the field blank sample.

The groundwater PFAS analytical data is expressed in tabular format on **Table 2** in **Appendix C**. The groundwater laboratory analytical reports and associated chain-of-custody documentation is presented in **Appendix D**.

4.0 CONCLUSIONS

On March 15 and 16, 2021, UES conducted soil and groundwater sampling at Pelican Coast (Former South Housing). The work scope of this limited assessment was developed based upon conversations with Charles D. Johnson, Jr., of Rhodes + Brito Architects and review of the provided PWS for this project.
The purpose of this assessment was to sample, analyze and report the presence or absence of OCPs in soil and VOCs, OCPs and PFAS in groundwater. As requested, the scope of this limited assessment included the collection of eighteen (18) soil samples from nine (9) locations and groundwater from eight (8) locations. In addition, a QA/QC "field blank" was included in the sampling process to assist in data validation.

No OCPs were detected in soil samples above the FDEP SCTLS. In addition, no OCPs were detected in groundwater above the laboratory MDLs. The compound 4-isopropyltoluene was the only VOC detected in groundwater samples (GW1 and GW2) above MDLs, however, FDEP has not published a GCTL for this compound.

Note that the State of Florida has not established groundwater or wastewater cleanup criteria for PFAS compounds. However, in May 2016 the USEPA issued a drinking water lifetime health advisory for the two compounds perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS). The drinking water

lifetime health advisory level was established at a combined concentration of 70 parts per trillion (ng/L). Due to the lack of state established groundwater and wastewater cleanup criteria, the USEPA health advisory is referenced herein a benchmark for regulatory screening purposes.

Review of the groundwater analytical results documented the detection of various PFAS compounds within all of the eight (8) groundwater samples analyzed. PFOA and PFOS were detected in four (4) of the eight (8) samples analyzed at combined concentrations which are above the USEPA drinking water lifetime health advisory level of 70 ng/L. No other groundwater samples were found to contain combined PFOA and PFOS concentrations in excess of the USEPA health advisory level. None of the tested PFAS constituents were detected above their respective laboratory MDLs within the field blank sample.

5.0 LIMITATIONS AND EXCEPTIONS

The findings of this report represent our professional judgment; UES offers or extends no warranty, expressed or implied. These findings are current with the dates of our site work and the information cited herein. The conclusions presented are based on the data provided, observations, and conditions that existed on the date of the on-site activities. This report should not be relied upon to represent property conditions on other dates or at locations other than those specifically cited within the report. UES can accept no responsibility for interpretations of these data made by other parties. This report is intended for the sole use of Rhodes + Brito Architects and their client, the United States Space Force. Its contents may not be relied upon by other parties for any purpose without the express written consent of UES. UES is not responsible for conclusions drawn by others upon review of the enclosed report. This is not a statement of suitability of the property for any use or purpose. This assessment was conducted in accordance with the UES General Conditions, which are incorporated into the Client authorized agreement that governs this assessment. A copy of UES' General Conditions are presented in **Appendix B.**

APPENDIX A

UNIVERSAL
ENGINEERING SCIENCES

IMAGE SOURCE: USGS TOPOGRAPHIC MAP, "TROPIC, FLORIDA" QUADRANGLE, DATED 2021

UNIVERSAL ENGINEERING SCIENCES

PELICAN COAST (FORMER SOUTH HOUSING)
PATRICK AIR FORCE BASE, FLORIDA

USGS SITE LOCATION MAP

DRAWN BY: TH	DATE: APRIL 2021	CHECKED BY: RH	DATE: APRIL 2021
SCALE: NOT AVAILABLE	PROJECT NO: 0340.2100012.0000	REPORT NO: 1855685	FIGURE: **1**

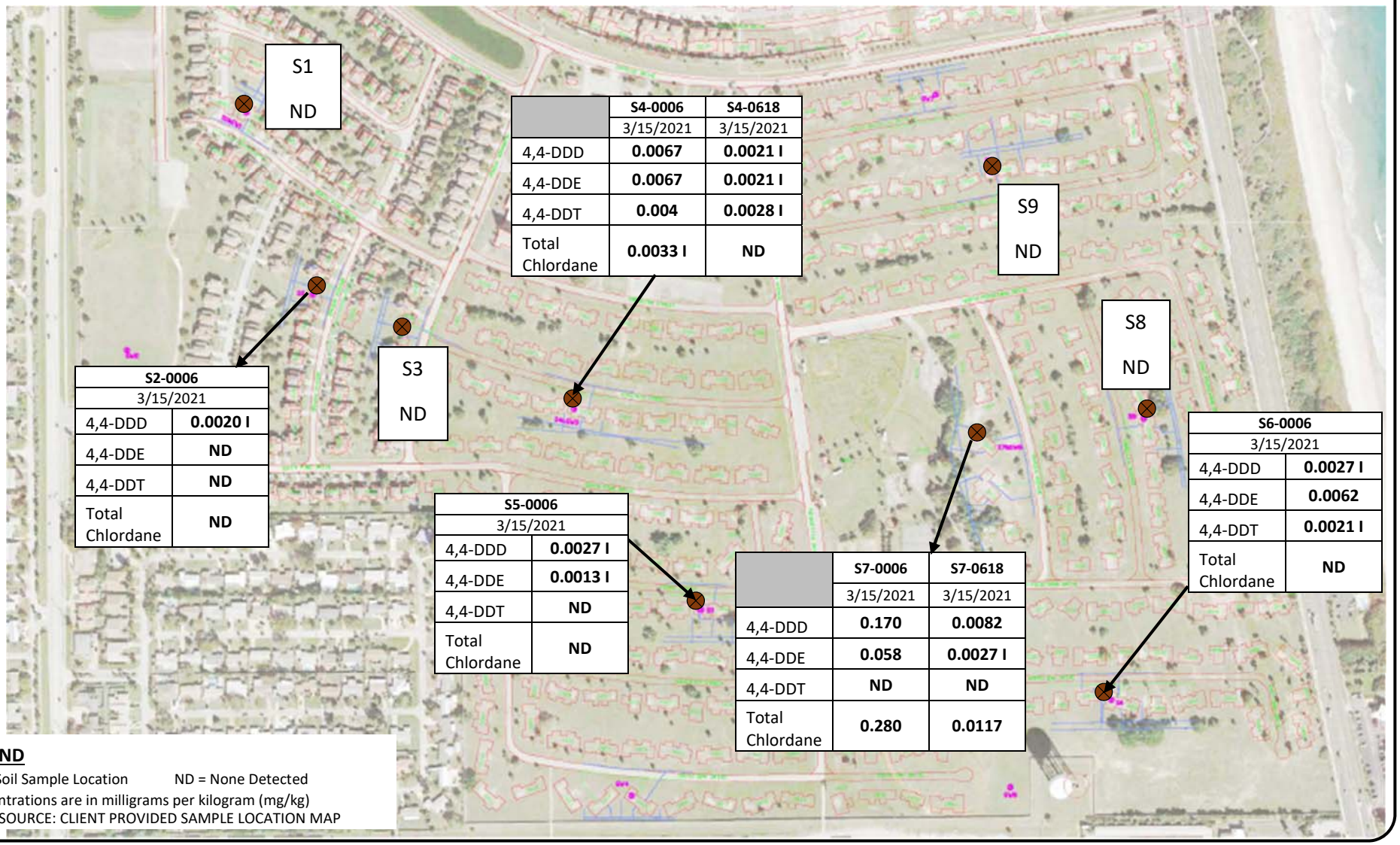
IMAGE SOURCE: CLIENT PROVIDED SAMPLE LOCATION MAP

UNIVERSAL ENGINEERING SCIENCES

SAMPLING & ANALYSIS OF SOIL & GROUNDWATER
PELICAN COAST (FORMER SOUTH HOUSING)
PATRICK AIR FORCE BASE
BREVARD COUNTY, FLORIDA

SITE MAP

DRAWN BY: T.H.	DATE: APRIL 2021	CHECKED BY: R.H.	DATE: APRIL 2021
SCALE: NOT AVAILABLE	PROJECT NO: 0340.2100012.0000	REPORT NO: 1855685	FIGURE NO: 2



LEGEND

Soil Sample Location ND = None Detected

Concentrations are in milligrams per kilogram (mg/kg)

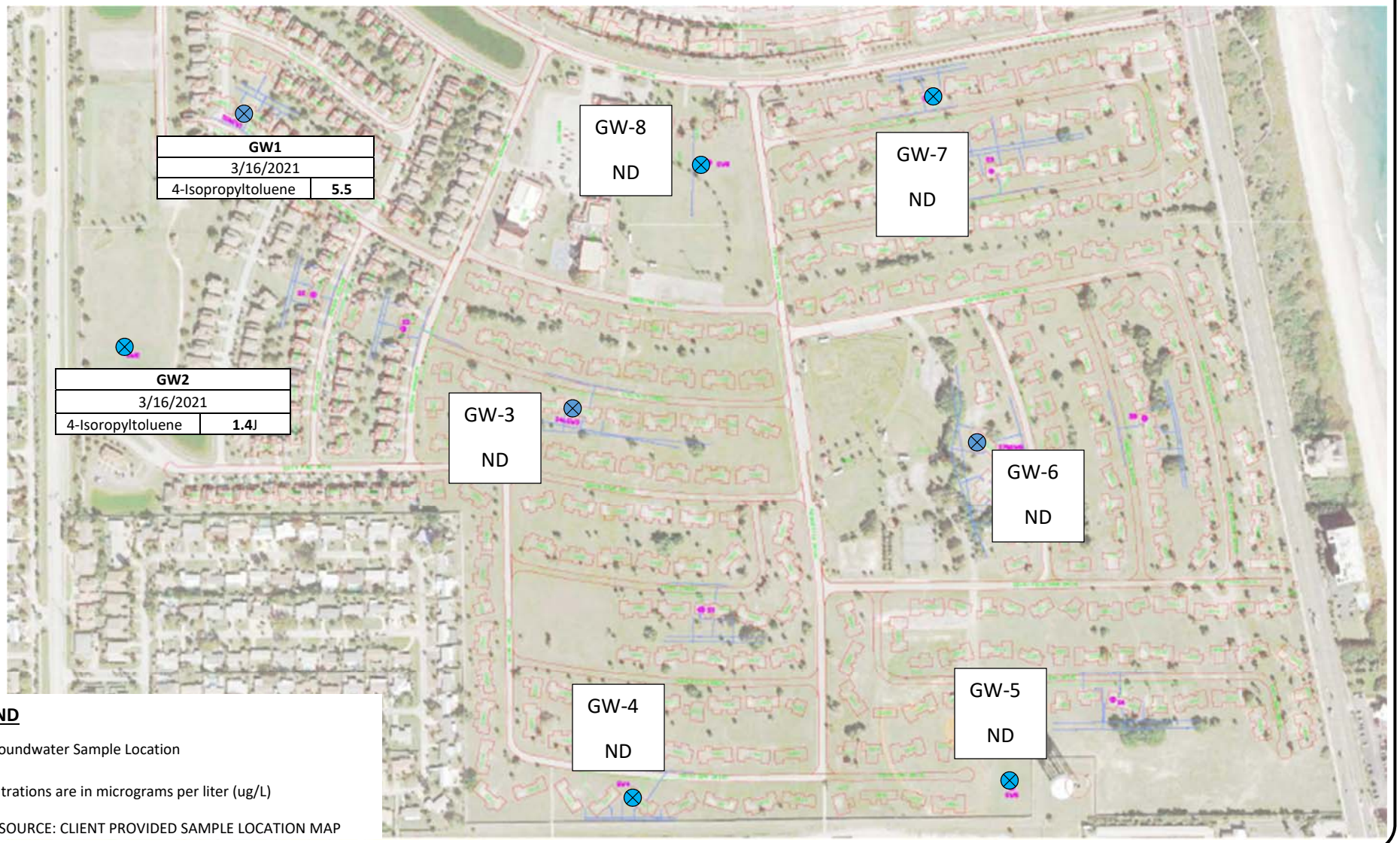
IMAGE SOURCE: CLIENT PROVIDED SAMPLE LOCATION MAP

UNIVERSAL ENGINEERING SCIENCES

SAMPLING & ANALYSIS OF SOIL & GROUNDWATER
PELICAN COAST (FORMER SOUTH HOUSING)
PATRICK AIR FORCE BASE
BREVARD COUNTY, FLORIDA

SOIL SAMPLE ANALYTICAL RESULTS MAP
Organochlorine Pesticides

DRAWN BY:	DATE:	CHECKED BY:	DATE:
T.H.	APRIL 2021	R.H.	APRIL 2021
SCALE:	PROJECT NO:	REPORT NO:	FIGURE NO:
NOT AVAILABLE	0340.2100012.0000	1855685	3



LEGEND

⊗ Groundwater Sample Location

Concentrations are in micrograms per liter (ug/L)

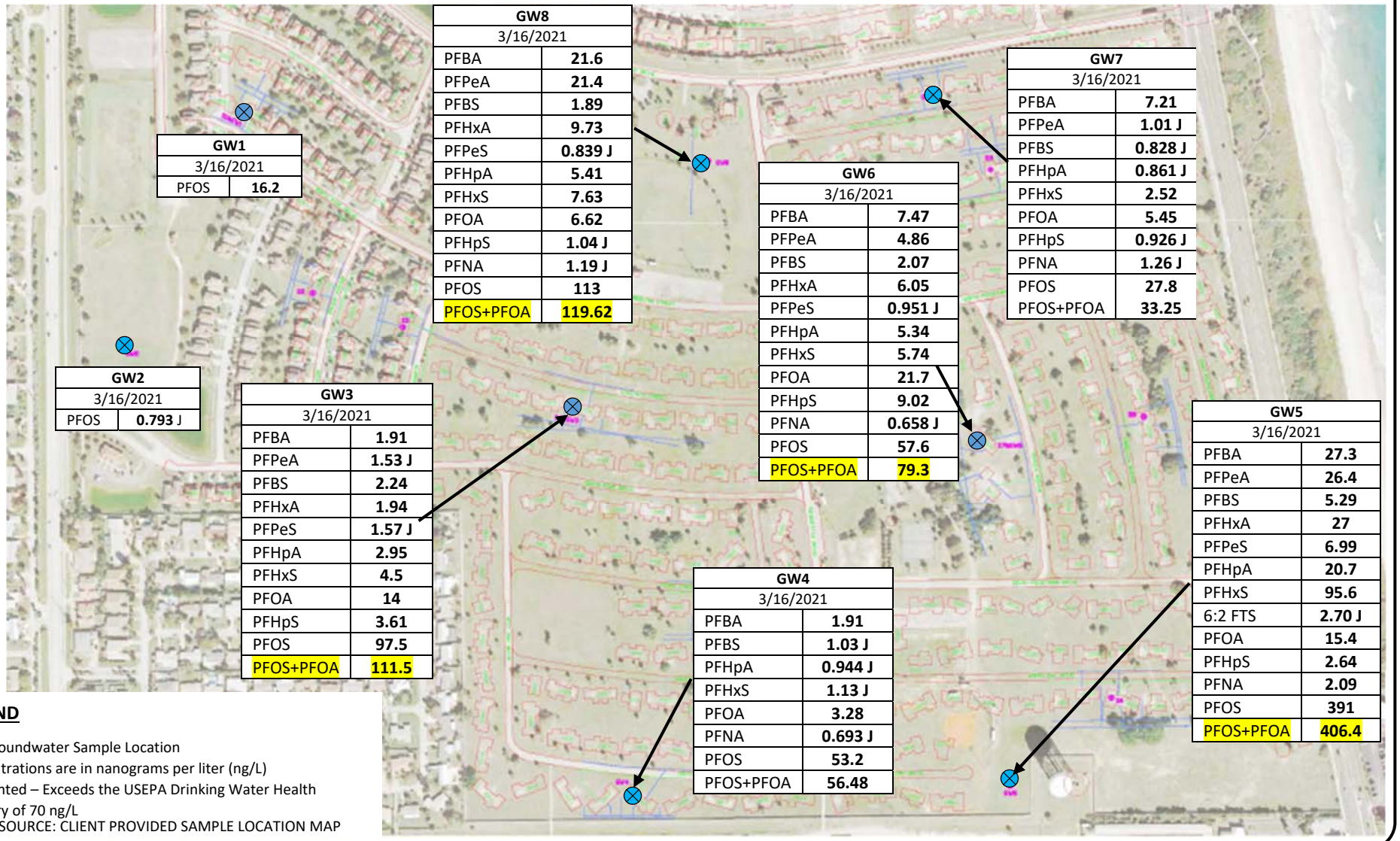
IMAGE SOURCE: CLIENT PROVIDED SAMPLE LOCATION MAP

UNIVERSAL ENGINEERING SCIENCES

SAMPLING & ANALYSIS OF SOIL & GROUNDWATER
PELICAN COAST (FORMER SOUTH HOUSING)
PATRICK AIR FORCE BASE
BREVARD COUNTY, FLORIDA

GROUNDWATER SAMPLE ANALYTICAL RESULTS MAP
Volatile Organic Compounds (VOCs)

DRAWN BY: T.H.	DATE: APRIL 2021	CHECKED BY: R.H.	DATE: APRIL 2021
SCALE: NOT AVAILABLE	PROJECT NO: 0340.2100012.0000	REPORT NO: 1855685	FIGURE NO: 4



GW1	
3/16/2021	
PFOS	**16.2**

GW2	
3/16/2021	
PFOS	**0.793** J

GW3	
3/16/2021	
PFBA	**1.91**
PFPeA	**1.53 J**
PFBS	**2.24**
PFHxA	**1.94**
PFPeS	**1.57 J**
PFHpA	**2.95**
PFHxS	**4.5**
PFOA	**14**
PFHpS	**3.61**
PFOS	**97.5**
PFOS+PFOA	**111.5**

GW4	
3/16/2021	
PFBA	**1.91**
PFBS	**1.03 J**
PFHpA	**0.944 J**
PFHxS	**1.13 J**
PFOA	**3.28**
PFNA	**0.693 J**
PFOS	**53.2**
PFOS+PFOA	**56.48**

GW5	
3/16/2021	
PFBA	**27.3**
PFPeA	**26.4**
PFBS	**5.29**
PFHxA	**27**
PFPeS	**6.99**
PFHpA	**20.7**
PFHxS	**95.6**
6:2 FTS	**2.70 J**
PFOA	**15.4**
PFHpS	**2.64**
PFNA	**2.09**
PFOS	**391**
PFOS+PFOA	**406.4**

GW6	
3/16/2021	
PFBA	**7.47**
PFPeA	**4.86**
PFBS	**2.07**
PFHxA	**6.05**
PFPeS	**0.951 J**
PFHpA	**5.34**
PFHxS	**5.74**
PFOA	**21.7**
PFHpS	**9.02**
PFNA	**0.658 J**
PFOS	**57.6**
PFOS+PFOA	**79.3**

GW7	
3/16/2021	
PFBA	**7.21**
PFPeA	**1.01 J**
PFBS	**0.828 J**
PFHpA	**0.861 J**
PFHxS	**2.52**
PFOA	**5.45**
PFHpS	**0.926 J**
PFNA	**1.26 J**
PFOS	**27.8**
PFOS+PFOA	**33.25**

GW8	
3/16/2021	
PFBA	**21.6**
PFPeA	**21.4**
PFBS	**1.89**
PFHxA	**9.73**
PFPeS	**0.839 J**
PFHpA	**5.41**
PFHxS	**7.63**
PFOA	**6.62**
PFHpS	**1.04 J**
PFNA	**1.19 J**
PFOS	**113**
PFOS+PFOA	**119.62**

LEGEND

⊗ Groundwater Sample Location

Concentrations are in nanograms per liter (ng/L)

Highlighted – Exceeds the USEPA Drinking Water Health Advisory of 70 ng/L

IMAGE SOURCE: CLIENT PROVIDED SAMPLE LOCATION MAP

UNIVERSAL ENGINEERING SCIENCES

SAMPLING & ANALYSIS OF SOIL & GROUNDWATER

PELICAN COAST (FORMER SOUTH HOUSING)

PATRICK AIR FORCE BASE

BREVARD COUNTY, FLORIDA

GROUNDWATER SAMPLE ANALYTICAL RESULTS MAP

Per- and Polyfluoroalkyl Substances (PFAS)

DRAWN BY:	DATE:	CHECKED BY:	DATE:
T.H.	APRIL 2021	R.H.	APRIL 2021
SCALE:	PROJECT NO:	REPORT NO:	FIGURE NO:
NOT AVAILABLE	0340.2100012.0000	1855685	5

APPENDIX B

UNIVERSAL
ENGINEERING SCIENCES

Universal Engineering Sciences, LLC
GENERAL CONDITIONS

SECTION 1: RESPONSIBILITIES **1.1** *Universal Engineering Sciences, LLC*, and its subsidiaries and affiliated companies ("UES"), is responsible for providing the services described under the Scope of Services. The term "UES" as used herein includes all of UES's agents, employees, professional staff, and subcontractors. **1.2** The Client or a duly authorized representative is responsible for providing UES with a clear understanding of the project nature and scope. The Client shall supply UES with sufficient and adequate information, including, but not limited to, maps, site plans, reports, surveys, plans and specifications, and designs, to allow UES to properly complete the specified services. The Client shall also communicate changes in the nature and scope of the project as soon as possible during performance of the work so that the changes can be incorporated into the work product. **1.3** The Client acknowledges that UES's responsibilities in providing the services described under the Scope of Services section is limited to those services described therein, and the Client hereby assumes any collateral or affiliated duties necessitated by or for those services. Such duties may include, but are not limited to, reporting requirements imposed by any third party such as federal, state, or local entities, the provision of any required notices to any third party, or the securing of necessary permits or permissions from any third parties required for UES's provision of the services so described, unless otherwise agreed upon by both parties in writing.

SECTION 2: STANDARD OF CARE **2.1** Services performed by UES under this Agreement will be conducted in a manner consistent with the level of care and skill ordinarily exercised by members of UES's profession practicing contemporaneously under similar conditions in the locality of the project. No other warranty, express or implied, is made. **2.2** Execution of this document by UES is not a representation that UES has visited the site, become generally familiar with local conditions under which the work is to be performed, or correlated personal observations with the requirements of the Scope of Services. It is the Client's responsibility to provide UES with all information necessary for UES to provide the services described under the Scope of Services, and the Client assumes all liability for information not provided to UES that may affect the quality or sufficiency of the services so described.

SECTION 3: SITE ACCESS AND SITE CONDITIONS **3.1** Client will grant or obtain free access to the site for all equipment and personnel necessary for UES to perform the work set forth in this Agreement. The Client will notify any possessors of the project site that Client has granted UES free access to the site. UES will take reasonable precautions to minimize damage to the site, but it is understood by Client that, in the normal course of work, some damage may occur, and the correction of such damage is not part of this Agreement unless so specified in the Scope of Services. **3.2** The Client is responsible for the accuracy of locations for all subterranean structures and utilities. UES will take reasonable precautions to avoid known subterranean structures, and the Client waives any claim against UES, and agrees to defend, indemnify, and hold UES harmless from any claim or liability for injury or loss, including costs of defense, arising from damage done to subterranean structures and utilities not identified or accurately located. In addition, Client agrees to compensate UES for any time spent or expenses incurred by UES in defense of any such claim with compensation to be based upon UES's prevailing fee schedule and expense reimbursement policy.

SECTION 4: BILLING AND PAYMENT **4.1** UES will submit invoices to Client monthly or upon completion of services. Invoices will show charges for different personnel and expense classifications. **4.2** Payment is due 30 days after presentation of invoice and is past due 31 days from invoice date. Client agrees to pay a finance charge of one and one-half percent (1 ½ %) per month, or the maximum rate allowed by law, on past due accounts. **4.3** If UES incurs any expenses to collect overdue billings on invoices, the sums paid by UES for reasonable attorneys' fees, court costs, UES's time, UES's expenses, and interest will be due and owing by the Client.

SECTION 5: OWNERSHIP AND USE OF DOCUMENTS **5.1** All reports, boring logs, field data, field notes, laboratory test data, calculations, estimates, and other documents prepared by UES, as instruments of service, shall remain the property of UES. Neither Client nor any other entity shall change or modify UES's instruments of service. **5.2** Client agrees that all reports and other work furnished to the Client or his agents, which are not paid for, will be returned upon demand and will not be used by the Client for any purpose. **5.3** UES will retain all pertinent records relating to the services performed for a period of five years following submission of the report or completion of the Scope of Services, during which period the records will be made available to the Client in a reasonable time and manner. **5.4** All reports, boring logs, field data, field notes, laboratory test data, calculations, estimates, and other documents prepared by UES, are prepared for the sole and exclusive use of Client, and may not be given to any other entity, or used or relied upon by any other entity, without the express written consent of UES. Client is the only entity to which UES owes any duty or duties, in contract or tort, pursuant to or under this Agreement.

SECTION 6: DISCOVERY OF UNANTICIPATED HAZARDOUS MATERIALS **6.1** Client represents that a reasonable effort has been made to inform UES of known or suspected hazardous materials on or near the project site. **6.2** Under this agreement, the term hazardous materials include hazardous materials, hazardous wastes, hazardous substances (40 CFR 261.31, 261.32, 261.33), petroleum products, polychlorinated biphenyls, asbestos, and any other material defined by the U.S. EPA as a hazardous material. **6.3** Hazardous materials may exist at a site where there is no reason to believe they are present. The discovery of unanticipated hazardous materials constitutes a changed condition mandating a renegotiation of the scope of work. The discovery of unanticipated hazardous materials may make it necessary for UES to take immediate measures to protect health and safety. Client agrees to compensate UES for any equipment decontamination or other costs incident to the discovery of unanticipated hazardous materials. **6.4** UES will notify Client when unanticipated hazardous materials or suspected hazardous materials are encountered. Client will make any disclosures required by law to the appropriate governing agencies. Client will hold UES harmless for all consequences of disclosures made by UES which are required by governing law. In the event the project site is not owned by Client, Client it is the Client's responsibility to inform the property owner of the discovery of unanticipated hazardous materials or suspected hazardous materials. **6.5** Notwithstanding any other provision of the Agreement, Client waives any claim against UES, and to the maximum extent permitted by law, agrees to defend, indemnify, and save UES harmless from any claim, liability, and/or defense costs for injury or loss arising from UES's discovery of unanticipated hazardous materials or suspected hazardous materials including any costs created by delay of the project and any cost associated with possible reduction of the property's value. Client will be responsible for ultimate disposal of any samples secured by UES which are found to be contaminated.

SECTION 7: RISK ALLOCATION **7.1** Client agrees that UES's liability for any damage on account of any breach of contract, error, omission, or professional negligence will be limited to a sum not to exceed $50,000 or UES's fee, whichever is greater. If Client prefers to have higher limits on contractual or professional liability, UES agrees to increase the limits up to a maximum of $1,000,000.00 upon Client's written request at the time of accepting UES's proposal provided that Client agrees to pay an additional consideration of four percent of the total fee, or $400.00, whichever is greater. If Client prefers a $2,000,000.00 limit on contractual or professional liability, UES agrees to increase the limits up to a maximum of $2,000,000.00 upon Client's written request at the time of accepting UES's proposal provided that Client agrees to pay an additional consideration of four percent of the total fee, or $800.00, whichever is greater. The additional charge for the higher liability limits is because of the greater risk assumed and is not strictly a charge for additional professional liability insurance. **7.2** Client shall not be liable to UES and UES shall not be liable to Client for any incidental, special, or consequential damages (including lost profits, loss of use, and lost savings) incurred by either party due to the fault of the other, regardless of the nature of the fault, or whether it was committed by Client or UES, their employees, agents, or subcontractors; or whether such liability arises in breach of contract or warranty, tort (including negligence), statutory, or any other cause of action. **7.3** As used in this Agreement, the terms "claim" or "claims" mean any claim in contract, tort, or statute alleging negligence, errors, omissions, strict liability, statutory liability, breach of contract, breach of warranty, negligent misrepresentation, or any other act giving rise to liability.

SECTION 8: INSURANCE **8.1** UES represents it and its agents, staff and consultants employed by UES, is and are protected by worker's compensation insurance and that UES has such coverage under public liability and property damage insurance policies which UES deems to be adequate. Certificates for all such policies of insurance shall be provided to Client upon request in writing. Within the limits and conditions of such insurance, UES agrees to indemnify and save Client harmless from and against loss, damage, or liability arising from negligent acts by UES, its agents, staff, and consultants employed by it. UES shall not be responsible for any loss, damage or liability beyond the amounts, limits, and conditions of such insurance or the limits described in Section 7, whichever is less. The Client agrees to defend, indemnify, and save UES harmless for loss, damage or liability arising from acts by Client, Client's agents, staff, and others employed by Client. **8.2** Under no circumstances will UES indemnify Client from or for Client's own actions, negligence, or breaches of contract. **8.3**

To the extent damages are covered by property insurance, Client and UES waive all rights against each other and against the contractors, consultants, agents, and employees of the other for damages, except such rights as they may have to the proceeds of such insurance.

SECTION 9: DISPUTE RESOLUTION **9.1** All claims, disputes, and other matters in controversy between UES and Client arising out of or in any way related to this Agreement will be submitted to mediation or non-binding arbitration, before and as a condition precedent to other remedies provided by law. **9.2** If a dispute arises and that dispute is not resolved by mediation or non-binding arbitration, then: (a) the claim will be brought in the state or federal courts having jurisdiction where the UES office which provided the service is located; and (b) the prevailing party will be entitled to recovery of all reasonable costs incurred, including staff time, court costs, attorneys' fees, expert witness fees, and other claim related expenses.

SECTION 10: TERMINATION **10.1** This agreement may be terminated by either party upon seven (7) days written notice in the event of substantial failure by the other party to perform in accordance with the terms hereof, or in the case of a force majeure event such as terrorism, act of war, public health or other emergency. Such termination shall not be effective if such substantial failure or force majeure has been remedied before expiration of the period specified in the written notice. In the event of termination, UES shall be paid for services performed to the termination notice date plus reasonable termination expenses. **10.2** In the event of termination, or suspension for more than three (3) months, prior to completion of all reports contemplated by the Agreement, UES may complete such analyses and records as are necessary to complete its files and may also complete a report on the services performed to the date of notice of termination or suspension. The expense of termination or suspension shall include all direct costs of UES in completing such analyses, records, and reports.

SECTION 11: REVIEWS, INSPECTIONS, TESTING, AND OBSERVATIONS **11.1** Plan review, private provider inspections, and building inspections are performed for the purpose of observing compliance with applicable building codes. Threshold inspections are performed for the purpose of observing compliance with an approved threshold inspection plan. Construction materials testing ("CMT") is performed to document compliance of certain materials or components with applicable testing standards. UES's performance of plan reviews, private provider inspections, building inspections, threshold inspections, or CMT, or UES's presence on the site of Client's project while performing any of the foregoing activities, is not a representation or warranty by UES that Client's project is free of errors in either design or construction. **11.2** If UES is retained to provide construction monitoring or observation, UES will report to Client any observed work which, in UES's opinion, does not conform to the plans and specifications provided to UES. UES shall have no authority to reject or terminate the work of any agent or contractor of Client. No action, statements, or communications of UES, or UES's site representative, can be construed as modifying any agreement between Client and others. UES's performance of construction monitoring or observation is not a representation or warranty by UES that Client's project is free of errors in either design or construction. **11.3** Neither the activities of UES pursuant to this Agreement, nor the presence of UES or its employees, representatives, or subcontractors on the project site, shall be construed to impose upon UES any responsibility for means or methods of work performance, superintendence, sequencing of construction, or safety conditions at the project site. Client acknowledges that Client or its contractor is solely responsible for project jobsite safety. **11.4** Client is responsible for scheduling all inspections and CMT activities of UES. All testing and inspection services will be performed on a will-call basis. UES will not be responsible for tests and inspections that are not performed due to Client's failure to schedule UES's services on the project, or for any claims or damages arising from tests and inspections that are not scheduled or performed.

SECTION 12: ENVIRONMENTAL ASSESSMENTS Client acknowledges that an Environmental Site Assessment ("ESA") is conducted solely to permit UES to render a professional opinion about the likelihood or extent of regulated contaminants being present on, in, or beneath the site in question at the time services were conducted. No matter how thorough an ESA study may be, findings derived from the study are limited and UES cannot know or state for a fact that a site is unaffected by reportable quantities of regulated contaminants as a result of conducting the ESA study. Even if UES states that reportable quantities of regulated contaminants are not present, Client still bears the risk that such contaminants may be present or may migrate to the site after the ESA study is complete.

SECTION 13: SUBSURFACE EXPLORATIONS **13.1** Client acknowledges that subsurface conditions may vary from those observed at locations where borings, surveys, samples, or other explorations are made, and that site conditions may change with time. Data, interpretations, and recommendations by UES will be based solely on information available to UES at the time of service. UES is responsible for those data, interpretations, and recommendations, but will not be responsible for other parties' interpretations or use of the information developed or provided by UES. **13.2** Subsurface explorations may result in unavoidable cross-contamination of certain subsurface areas, as when a probe or boring device moves through a contaminated zone and links it to an aquifer, underground stream, or other hydrous body not previously contaminated. UES is unable to eliminate totally cross-contamination risk despite use of due care. Since subsurface explorations may be an essential element of UES's services indicated herein, Client shall, to the fullest extent permitted by law, waive any claim against UES, and indemnify, defend, and hold UES harmless from any claim or liability for injury or loss arising from cross-contamination allegedly caused by UES's subsurface explorations. In addition, Client agrees to compensate UES for any time spent or expenses incurred by UES in defense of any such claim with compensation to be based upon UES's prevailing fee schedule and expense reimbursement policy.

SECTION 14: SOLICITATION OF EMPLOYEES Client agrees not to hire UES's employees except through UES. In the event Client hires a UES employee within one year following any project through which Client had contact with said employee, Client shall pay UES an amount equal to one-half of the employee's annualized salary, as liquidated damages, without UES waiving other remedies it may have.

SECTION 15: ASSIGNS Neither Client nor UES may delegate, assign, sublet, or transfer its duties or interest in this Agreement without the written consent of the other party.

SECTION 16: GOVERNING LAW AND SURVIVAL **16.1** This Agreement shall be governed by and construed in accordance with the laws of the jurisdiction in which the UES office performing the services hereunder is located. **16.2** In any of the provisions of this Agreement are held illegal, invalid, or unenforceable, the enforceability of the remaining provisions will not be impaired and will survive. Limitations of liability and indemnities will survive termination of this agreement for any cause.

SECTION 17: INTEGRATION CLAUSE **17.1** This Agreement represents and contains the entire and only agreement and understanding among the parties with respect to the subject matter of this Agreement, and supersedes any and all prior and contemporaneous oral and written agreements, understandings, representations, inducements, promises, warranties, and conditions among the parties. No agreement, understanding, representation, inducement, promise, warranty, or condition of any kind with respect to the subject matter of this Agreement shall be relied upon by the parties unless expressly incorporated herein. **17.2** This Agreement may not be amended or modified except by an agreement in writing signed by the party against whom the enforcement of any modification or amendment is sought.

SECTION 18: WAIVER OF JURY TRIAL Both Client and UES waive trial by jury in any action arising out of or related to this Agreement.

SECTION 19: INDIVIDUAL LIABILTY PURSUANT TO FLORIDA STAT. 558.0035, AN INDIVIDUAL EMPLOYEE OR AGENT OF UES MAY NOT BE HELD INDIVIDUALLY LIABLE FOR NEGLIGENCE.

PERFORMANCE WORK STATEMENT

SAMPLING AND ANALYSIS OF SOILS & GROUNDWATER
PELICAN COAST (FORMER SOUTH HOUSING)

PATRICK AIR FORCE BASE
BREVARD COUNTY, FL

2 DECEMBER 2020

TABLE OF CONTENTS

PERFORMANCE WORK STATEMENT FOR SAMPLING & ANALYSIS OF SOILS AND GROUNDWATER, PELICAN COAST

1.0 **DESCRIPTION OF SERVICES.** The Contractor shall provide all management, tools, equipment, and labor necessary to sample, analyze and report:

- **Soil sampling and analysis for organochlorine pesiticides.** Extract soil samples from surface (0" – 6") and subsurface (6" – 18") at nine (9) locations identified in Exhibit 1 attached. Eighteen total samples and one field blank shall be analyzed for organochlorine contamination by a laboratory certified by the National Environmental Laboratory Accreditation Conference (NELAC).
- **Groundwater sampling and analysis for multiple contaminants.** Sample shallow groundwater aquifer using direct push technology at eight (8) locations identified in Exhibit 1 attached. Eight groundwater samples and one field blank shall be analyzed for presence of per- and polyfluoroalkyl substances (PFAS), volatile organic compounds (VOC), and organochlorine pesticides (OCP) by an NELAC accredited lab.

All work performed by the contractor shall be performed in accordance with all applicable laws, regulations, and commercial best practices.

1.1 Project Management

1.1.1 The Contractor shall provide the following service throughout the duration of the project:

- Coordination of all work and subcontracts
- Management of schedules and budgets
- Preparation and distribution of meeting agendas and support documents
- Preparation and distribution of meeting minutes within two weeks of their occurrence
- Preparation of progress reports and invoices

1.1.2 Project Kick-off Meeting: The Contractor and Government representatives shall conduct a post-award meeting to review requirements and expectations of the contract, Government data required by the Contractor, invoicing requirements, project schedules and other topics as requested by either part.

1.2 Sampling and Analysis Plan

1.2.1 Draft Sampling Plan: Contractor shall prepare a plan identifying proposed sampling locations, site access/coordination requirements and required Government support, field sampling schedule, QA/QC methods and procedures, worker protection, subcontracting plan (if applicable), waste management and disposal plan and any other items material to the execution of field work. The Government shall have five-business days to review the plan and provide written comments/recommended changes to the Contractor.

1.2.2 Sampling Plan Approval/Acceptance: The Government shall have 3-business days after receipt of the Contractor's final sampling plan to accept the plan or provide rationale to the Contractor why the plan is not acceptable.

1.3 Field Sampling and Analysis

1.3.1 Contractor shall provide all labor, materials and equipment necessary to execute the approved sampling plan.

1.3.2 The Government will provide services and support agreed to in the sampling plan necessary to provide the Contractor access to the site.

1.3.3 The investigation site is located within the limits of the City of Satellite Beach and not on Patrick Air Force Base. The Contractor shall coordinate all dig locate requirements in accordance with industry best practices and local construction regulations, as well as with the privatized housing owner, Hunt Communities, LLC. A copy of approved utility clearances shall be provided to the Government prior to starting work at the site.

1.3.4 Sample analysis methodologies:

1.3.4.1 PFAS shall be analyzed using USEPA Method 537 as directed by the Department of Defense's Quality Service Manual version 5.1 (DoD QSM 5.1).

1.3.4.2 VOCs shall be analyzed using USEPA Method 8021B.

1.3.4.3 OCPs shall be analyzed using USEPA Method 8081B

1.3.5 All sampling locations shall be restored to original condition.

1.3.6 Contractor shall properly containerize and label (investigation-derived waste) all well purge water. The contractor shall deliver and off-load purge water container(s) to the base hazardous waste storage facility 947 where it will be held for disposal by the Government pending receipt of laboratory testing results. Note, contractor must use the truck inspection gate located off A1A when delivering the purge water to facility 947 and will be subjected to general search and inspection requirements.

1.4 Reporting Results

1.4.1 Draft Report: the Contractor shall compile all of the sampling results and report findings in both tabular and graphical (on map) format along with all laboratory analysis and QA/QC reports and submit a draft copy to the Government for review. The Government shall have five-business days from receipt of the report to provide the Contractor written comments.

1.4.2 Final Report: The Government shall have three-business days after receipt of the Contractor's final report to accept the report or provide rationale to the Contractor

why the report is not acceptable.

1.5 Period of Performance. 75 days from notice to proceed.

2.0 **SERVICE SUMMARY.** Progress payment under this performance work statement shall be based on completion of contract milestones. Contractor shall prepare their cost proposal to allocate costs, including project management, subcontract fees and other direct costs, overhead and profit associated with each of the milestones identified below:

2.1 Government approval/acceptance of Contractor Sampling Plan. Include all project management costs associated with contract award, kick-off and sampling plan preparation.

2.2 Completion of Field Sampling & Analysis. Include all costs associated with field sampling and laboratory analysis.

2.3 Government acceptance of Final Report. Includes all remaining Contractor costs.

3.0 **GOVERNMENT FURNISHED PROPERTY AND SERVICES**

3.1 Government Furnished Property. None.

3.2 Government Furnished Supplies and Equipment. None.

3.3 Security, Fire and Medical Services. None. The project is located within the limits of the City of Satellite Beach.

4.0 **GENERAL INFORMATION**

4.1 Hours of Operation. The contractor shall perform the services required under this contract during the following hours. The contractor is not required to perform services on Federal Holidays.

4.2 Normal Base Hours. Base hours of operation are 0700 to 1700 hrs., Monday through Friday. The Contractor may find it necessary to deviate from the normal base hours of operation, to ensure timely completion of work under this PWS at no additional cost to the government.

4.3 Federal Holidays.

- New Year's Day - 1 January
- Martin Luther King Day - 3rd Monday in January
- Washington's Birthday - 3rd Monday in February
- Memorial Day - last Monday in May
- Independence Day - 4 July
- Labor Day - 1st Monday in September
- Columbus Day - 2nd Monday in October
- Veteran's Day - 11 November

- Thanksgiving Day - 4th Thursday in November
- Christmas Day - 25 December

If these holidays fall on Saturday, the preceding Friday will be observed. If these holidays fall on Sunday, the following Monday will be observed. If a holiday falls on a scheduled service day, the Contractor will be responsible for rescheduling services for the first day post the holiday observance.

4.4 Base Closures. The work is located off-base and is not anticipated to be impacted by base closures

4.5 Contractor/Employee Base Pass and Identification, Special Clearances and Vehicle Passes. The contractor shall comply with all requirements and procedures IAW AFFAR 5353.242-9000, Contractor Access to Air Force Installations. All documentation shall be submitted at the pre-performance conference.

4.6 Traffic Laws. The Contractor and its employees shall comply with base traffic regulations when driving on base.

4.7 Weapons, Firearms, and Ammunition. Contractor employees are prohibited from possessing weapons, firearms, or ammunition, on themselves or within their Contractor-owned or privately owned vehicle while on Patrick Air Force Base.

4.8 For Official Use Only (FOUO). The Contractor shall comply with DoD 5400-7-R, Chapter 4, DoD Freedom of Information Act (FOIA) Program requirements. This regulation sets policy and procedures for the disclosure of records to the public and for marking, handling, transmitting, and safeguarding FOUO material.

4.9 Schedules. The Contractor shall submit a project schedule of milestones to the Contractor Officer within ten-business days of notice to proceed.

4.10 Contracting Officer (CO) and Contracting Officer Representative (COR) (Quality Assurance Personnel). The CO will appoint a representative for management of the day to day activities of the contract. The identity, title, and authority of this representative will be provided in writing to the contractor after contact award.

4.11 Safety Requirements and Reports. The contractor shall perform work in a safe manner as required by OSHA Safety and Health Requirements. Provide a verbal report to the CO as soon as possible of each occurrence of damage to Government property or an accident resulting in death, injury, occupational disease, or adverse environmental impact. Provide a completed copy of required Accident Investigation Reports to the CO within five calendar days of each occurrence.

APPENDIX C

UNIVERSAL
ENGINEERING SCIENCES

Table 1
Summary of Soil Analysis Organochlorine Pesticides
Pelican Coast (Former South Housing)
Patrick Air Force Base, Florida

Sample ID 03/15/2021	Analyte (mg/kg)			
	4,4'-DDD	4,4'-DDE	4,4'-DDT	Total Chlordane
SCTL	4.2	2.9	2.9	2.8
S1-0006	ND	ND	ND	ND
S1-0618	ND	ND	ND	ND
S2-0006	0.0020 I	ND	ND	ND
S2-0618	ND	ND	ND	ND
S3-0006	ND	ND	ND	ND
S3-0618	ND	ND	ND	ND
S4-0006	0.0067	0.0067	0.004	0.0033 I
S4-0618	0.0021 I	0.0021 I	0.0028 I	ND
S5-0006	0.0027 I	0.0013 I	ND	ND
S5-0618	ND	ND	ND	ND
S6-0006	0.0027 I	0.0062	0.0021 I	ND
S6-0618	ND	ND	ND	ND
S7-0006	0.170	0.058	ND	0.280
S7-0618	0.0082	0.0027 I	ND	0.012
S8-0006	ND	ND	ND	ND
S8-0618	ND	ND	ND	ND
S9-0006	ND	ND	ND	ND
S9-0618	ND	ND	ND	ND

Table Notes:
FDEP - Florida Department of Environmental Protection
I - The reported value is between the laboratory method detection limit (MDL) and the practical quantitation limit (PQL).
Concentrations are reported in milligrams per kilograms (m
ND = Not detected above the MDL
SCTL = FDEP Soil Cleanup Target Level

Table 2
Summary of Groundwater Analysis (PFAS)
Pelican Coast (Former South Housing)
Patrick Air Force Base, Florida

Analyte (ng/L)	Sample ID and Sample Date								
	GW1	GW2	GW3	GW4	GW5	GW6	GW7	GW8	FB
	3/16/2021								
PFBA	ND	ND	**1.91**	**1.91**	**27.3**	**7.47**	**7.21**	**21.6**	ND
PFPeA	ND	ND	**1.53 J**	ND	**26.4**	**4.86**	**1.01 J**	**21.4**	ND
PFBS	ND	ND	**2.24**	**1.03 J**	**5.29**	**2.07**	**0.828 J**	**1.89**	ND
4:2 FTS	ND	ND	ND	ND	ND	ND	ND	ND	ND
PFHxA	ND	ND	**1.94**	ND	**27**	**6**	ND	**9.73**	ND
PFPeS	ND	ND	**1.57 J**	ND	**6.99**	**0.951 J**	ND	**0.839 J**	ND
PFHpA	ND	ND	**2.95**	**0.944 J**	**20.7**	**5.34**	**0.861 J**	**5.41**	ND
PFHxS	ND	ND	**4.5**	**1.13 J**	**95.6**	**5.74**	**2.52**	**7.63**	ND
6:2 FTS	ND	ND	ND	ND	**2.70 J**	ND	ND	ND	ND
PFOA	ND	ND	**14**	**3.28**	**15.4**	**21.7**	**5.45**	**6.62**	ND
PFHpS	ND	ND	**3.61**	ND	**2.64**	**9.02**	**0.926 J**	**1.04 J**	ND
PFNA	ND	ND	ND	**0.693 J**	**2.09**	**0.658 J**	**1.26 J**	**1.19 J**	ND
PFOSA	ND	ND	ND	ND	ND	ND	ND	ND	ND
PFOS	**16.2**	**0.793 J**	**97.5**	**53.2**	**391**	**57.6**	**27.8**	**113**	ND
PFDA	ND	ND	ND	ND	ND	ND	ND	ND	ND
8:2 FTS	ND	ND	ND	ND	ND	ND	ND	ND	ND
PFNS	ND	ND	ND	ND	ND	ND	ND	ND	ND
NMeFOSAA	ND	ND	ND	ND	ND	ND	ND	ND	ND
NMeFOSAA	ND	ND	ND	ND	ND	ND	ND	ND	ND
NEtFOSAA	ND	ND	ND	ND	ND	ND	ND	ND	ND
PFUnA	ND	ND	ND	ND	ND	ND	ND	ND	ND
PFDS	ND	ND	ND	ND	ND	ND	ND	ND	ND
PFDoA	ND	ND	ND	ND	ND	ND	ND	ND	ND
PFTrDA	ND	ND	ND	ND	ND	ND	ND	ND	ND
PFTeDA	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table Notes:
Concentrations are reported in nagograms per liter (ng/L)
ND - Not Detected
J - Value is estimated

APPENDIX D

UNIVERSAL
ENGINEERING SCIENCES

ENCO Laboratories

Accurate. Timely. Responsive. Innovative.

10775 Central Port Drive
Orlando FL, 32824
Phone: 407.826.5314 FAX: 407.850.6945

Wednesday, March 24, 2021
Universal Engineering Sciences ENV (UN004)
Attn: Teresa Hardy
820 Brevard Ave.
Rockledge, FL 32955

RE: Laboratory Results for
Project Number: 0340.2100012.0000, Project Name/Desc: Pelican Coast Soil and Groundwater Sampling
ENCO Workorder(s): AE01807

Dear Teresa Hardy,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Monday, March 15, 2021.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative if applicable. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Orlando. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Carlene S. Pasipanki

Carlene S Pasipanki

Project Manager

Enclosure(s)

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: S8-0006 **Lab ID: AE01807-01** **Sampled: 03/15/21 08:20** **Received: 03/15/21 12:15**

Parameter	Preparation	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	SOP EXSV-33	03/29/21	04/28/21	03/19/21	08:40	03/23/21 11:45

Client ID: S8-0618 **Lab ID: AE01807-02** **Sampled: 03/15/21 08:30** **Received: 03/15/21 12:15**

Parameter	Preparation	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	SOP EXSV-33	03/29/21	04/28/21	03/19/21	08:40	03/23/21 11:58

Client ID: S6-0006 **Lab ID: AE01807-03** **Sampled: 03/15/21 08:40** **Received: 03/15/21 12:15**

Parameter	Preparation	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	SOP EXSV-33	03/29/21	04/28/21	03/19/21	08:40	03/23/21 12:10

Client ID: S6-0618 **Lab ID: AE01807-04** **Sampled: 03/15/21 08:45** **Received: 03/15/21 12:15**

Parameter	Preparation	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	SOP EXSV-33	03/29/21	04/28/21	03/19/21	08:40	03/23/21 12:23

Client ID: S7-0006 **Lab ID: AE01807-05** **Sampled: 03/15/21 08:50** **Received: 03/15/21 12:15**

Parameter	Preparation	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	SOP EXSV-33	03/29/21	04/28/21	03/19/21	08:40	03/23/21 12:38

Client ID: S7-0618 **Lab ID: AE01807-06** **Sampled: 03/15/21 08:55** **Received: 03/15/21 12:15**

Parameter	Preparation	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	SOP EXSV-33	03/29/21	04/28/21	03/19/21	08:40	03/23/21 12:51

Client ID: S9-0006 **Lab ID: AE01807-07** **Sampled: 03/15/21 09:00** **Received: 03/15/21 12:15**

Parameter	Preparation	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	SOP EXSV-33	03/29/21	04/28/21	03/19/21	08:40	03/23/21 13:03

Client ID: S9-0618 **Lab ID: AE01807-08** **Sampled: 03/15/21 09:05** **Received: 03/15/21 12:15**

Parameter	Preparation	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	SOP EXSV-33	03/29/21	04/28/21	03/19/21	08:40	03/23/21 13:16

Client ID: S4-0006 **Lab ID: AE01807-09** **Sampled: 03/15/21 09:15** **Received: 03/15/21 12:15**

Parameter	Preparation	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	SOP EXSV-33	03/29/21	04/28/21	03/19/21	08:40	03/23/21 11:33

Client ID: S4-0618 **Lab ID: AE01807-10** **Sampled: 03/15/21 09:20** **Received: 03/15/21 12:15**

Parameter	Preparation	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	SOP EXSV-33	03/29/21	04/28/21	03/19/21	08:40	03/23/21 13:28

Client ID: S5-0006 **Lab ID: AE01807-11** **Sampled: 03/15/21 09:30** **Received: 03/15/21 12:15**

Parameter	Preparation	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	SOP EXSV-33	03/29/21	04/28/21	03/19/21	08:40	03/23/21 13:41

Client ID: S5-0618 **Lab ID: AE01807-12** **Sampled: 03/15/21 09:35** **Received: 03/15/21 12:15**

Parameter	Preparation	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	SOP EXSV-33	03/29/21	04/28/21	03/19/21	08:40	03/23/21 13:53

Client ID: S3-0006 **Lab ID: AE01807-13** **Sampled: 03/15/21 09:40** **Received: 03/15/21 12:15**

Parameter	Preparation	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	SOP EXSV-33	03/29/21	04/28/21	03/19/21	08:40	03/23/21 14:05

Client ID: S3-0618 **Lab ID: AE01807-14** **Sampled: 03/15/21 09:45** **Received: 03/15/21 12:15**

Parameter	Preparation	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	SOP EXSV-33	03/29/21	04/28/21	03/19/21	08:40	03/23/21 14:18

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: S2-0006 **Lab ID: AE01807-15** **Sampled: 03/15/21 09:50** **Received: 03/15/21 12:15**

Parameter	Preparation	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	SOP EXSV-33	03/29/21	04/28/21	03/19/21	08:40	03/23/21 14:30

Client ID: S2-0618 **Lab ID: AE01807-16** **Sampled: 03/15/21 09:55** **Received: 03/15/21 12:15**

Parameter	Preparation	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	SOP EXSV-33	03/29/21	04/28/21	03/19/21	08:40	03/23/21 14:43

Client ID: S1-0006 **Lab ID: AE01807-17** **Sampled: 03/15/21 10:00** **Received: 03/15/21 12:15**

Parameter	Preparation	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	SOP EXSV-33	03/29/21	04/28/21	03/19/21	08:40	03/23/21 14:55

Client ID: S1-0618 **Lab ID: AE01807-18** **Sampled: 03/15/21 10:05** **Received: 03/15/21 12:15**

Parameter	Preparation	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	SOP EXSV-33	03/29/21	04/28/21	03/19/21	08:40	03/23/21 15:07

SAMPLE DETECTION SUMMARY

Client ID: S6-0006 **Lab ID: AE01807-03**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
4,4'-DDD	0.0027	I	0.0016	0.0035	mg/kg dry	EPA 8081B	
4,4'-DDE	0.0062		0.0013	0.0035	mg/kg dry	EPA 8081B	
4,4'-DDT	0.0021	I	0.0013	0.0035	mg/kg dry	EPA 8081B	

Client ID: S7-0006 **Lab ID: AE01807-05**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
4,4'-DDD	0.17		0.0016	0.0035	mg/kg dry	EPA 8081B	
4,4'-DDE	0.058		0.0013	0.0035	mg/kg dry	EPA 8081B	
Chlordane-alpha	0.16		0.0013	0.0035	mg/kg dry	EPA 8081B	
Chlordane-gamma	0.12		0.0016	0.0035	mg/kg dry	EPA 8081B	

Client ID: S7-0618 **Lab ID: AE01807-06**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
4,4'-DDD	0.0082		0.0016	0.0035	mg/kg dry	EPA 8081B	
4,4'-DDE	0.0027	I	0.0013	0.0035	mg/kg dry	EPA 8081B	
Chlordane-alpha	0.0069		0.0014	0.0035	mg/kg dry	EPA 8081B	
Chlordane-gamma	0.0048		0.0016	0.0035	mg/kg dry	EPA 8081B	

Client ID: S4-0006 **Lab ID: AE01807-09**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
4,4'-DDD	0.0067		0.0016	0.0034	mg/kg dry	EPA 8081B	
4,4'-DDE	0.0067		0.0013	0.0034	mg/kg dry	EPA 8081B	
4,4'-DDT	0.0040		0.0013	0.0034	mg/kg dry	EPA 8081B	
Chlordane-alpha	0.0013	I	0.0013	0.0034	mg/kg dry	EPA 8081B	
Chlordane-gamma	0.0020	I	0.0015	0.0034	mg/kg dry	EPA 8081B	

Client ID: S4-0618 **Lab ID: AE01807-10**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
4,4'-DDD	0.0021	I	0.0017	0.0036	mg/kg dry	EPA 8081B	
4,4'-DDE	0.0021	I	0.0014	0.0036	mg/kg dry	EPA 8081B	
4,4'-DDT	0.0028	I	0.0014	0.0036	mg/kg dry	EPA 8081B	

Client ID: S5-0006 **Lab ID: AE01807-11**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
4,4'-DDD	0.0027	I	0.0016	0.0034	mg/kg dry	EPA 8081B	
4,4'-DDE	0.0013	I	0.0013	0.0034	mg/kg dry	EPA 8081B	

Client ID: S2-0006 **Lab ID: AE01807-15**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
4,4'-DDE	0.0020	I	0.0013	0.0035	mg/kg dry	EPA 8081B	

ANALYTICAL RESULTS

Description: S8-0006 | **Lab Sample ID:** AE01807-01 | **Received:** 03/15/21 12:15
Matrix: Soil | **Sampled:** 03/15/21 08:20 | **Work Order:** AE01807
Project: Pelican Coast Soil and Groundwater Sampling | **Sampled By:** Brandon Selph | **% Solids:** 97.91

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8]^	0.0016	U	mg/kg dry	2	0.0016	0.0035	1C19002	EPA 8081B	03/23/21 11:45	JJB	
4,4'-DDE [72-55-9]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 11:45	JJB	
4,4'-DDT [50-29-3]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 11:45	JJB	
Aldrin [309-00-2]^	0.0010	U	mg/kg dry	2	0.0010	0.0035	1C19002	EPA 8081B	03/23/21 11:45	JJB	
alpha-BHC [319-84-6]^	0.0011	U	mg/kg dry	2	0.0011	0.0035	1C19002	EPA 8081B	03/23/21 11:45	JJB	
beta-BHC [319-85-7]^	0.0025	U	mg/kg dry	2	0.0025	0.0035	1C19002	EPA 8081B	03/23/21 11:45	JJB	
Chlordane (tech) [12789-03-6]^	0.015	U	mg/kg dry	2	0.015	0.067	1C19002	EPA 8081B	03/23/21 11:45	JJB	
Chlordane-alpha [5103-71-9]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 11:45	JJB	
Chlordane-gamma [5103-74-2]^	0.0016	U	mg/kg dry	2	0.0016	0.0035	1C19002	EPA 8081B	03/23/21 11:45	JJB	
delta-BHC [319-86-8]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 11:45	JJB	
Dieldrin [60-57-1]^	0.00092	U	mg/kg dry	2	0.00092	0.0035	1C19002	EPA 8081B	03/23/21 11:45	JJB	
Endosulfan I [959-98-8]^	0.00082	U	mg/kg dry	2	0.00082	0.0035	1C19002	EPA 8081B	03/23/21 11:45	JJB	
Endosulfan II [33213-65-9]^	0.0018	U	mg/kg dry	2	0.0018	0.0035	1C19002	EPA 8081B	03/23/21 11:45	JJB	
Endosulfan sulfate [1031-07-8]^	0.0012	U	mg/kg dry	2	0.0012	0.0035	1C19002	EPA 8081B	03/23/21 11:45	JJB	
Endrin [72-20-8]^	0.0015	U	mg/kg dry	2	0.0015	0.0035	1C19002	EPA 8081B	03/23/21 11:45	JJB	
Endrin aldehyde [7421-93-4]^	0.0029	U	mg/kg dry	2	0.0029	0.0035	1C19002	EPA 8081B	03/23/21 11:45	JJB	
Endrin ketone [53494-70-5]^	0.0012	U	mg/kg dry	2	0.0012	0.0035	1C19002	EPA 8081B	03/23/21 11:45	JJB	
gamma-BHC [58-89-9]^	0.0012	U	mg/kg dry	2	0.0012	0.0035	1C19002	EPA 8081B	03/23/21 11:45	JJB	
Heptachlor [76-44-8]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 11:45	JJB	
Heptachlor epoxide [1024-57-3]^	0.0015	U	mg/kg dry	2	0.0015	0.0035	1C19002	EPA 8081B	03/23/21 11:45	JJB	
Isodrin [465-73-6]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 11:45	JJB	
Methoxychlor [72-43-5]^	0.0019	U	mg/kg dry	2	0.0019	0.0035	1C19002	EPA 8081B	03/23/21 11:45	JJB	
Mirex [2385-85-5]^	0.0022	U	mg/kg dry	2	0.0022	0.0035	1C19002	EPA 8081B	03/23/21 11:45	JJB	
Toxaphene [8001-35-2]^	0.035	U	mg/kg dry	2	0.035	0.067	1C19002	EPA 8081B	03/23/21 11:45	JJB	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.019*	*2*	*0.0340*	*56 %*	*20-137*	*1C19002*	*EPA 8081B*	*03/23/21 11:45*	*JJB*	
Decachlorobiphenyl	*0.022*	*2*	*0.0340*	*66 %*	*13-183*	*1C19002*	*EPA 8081B*	*03/23/21 11:45*	*JJB*	

ANALYTICAL RESULTS

Description: S8-0618 | **Lab Sample ID:** AE01807-02 | **Received:** 03/15/21 12:15
Matrix: Soil | **Sampled:** 03/15/21 08:30 | **Work Order:** AE01807
Project: Pelican Coast Soil and Groundwater Sampling | **Sampled By:** Brandon Selph | **% Solids:** 97.27

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8]^	0.0016	U	mg/kg dry	2	0.0016	0.0035	1C19002	EPA 8081B	03/23/21 11:58	JJB	
4,4'-DDE [72-55-9]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 11:58	JJB	
4,4'-DDT [50-29-3]^	0.0014	U	mg/kg dry	2	0.0014	0.0035	1C19002	EPA 8081B	03/23/21 11:58	JJB	
Aldrin [309-00-2]^	0.0010	U	mg/kg dry	2	0.0010	0.0035	1C19002	EPA 8081B	03/23/21 11:58	JJB	
alpha-BHC [319-84-6]^	0.0012	U	mg/kg dry	2	0.0012	0.0035	1C19002	EPA 8081B	03/23/21 11:58	JJB	
beta-BHC [319-85-7]^	0.0025	U	mg/kg dry	2	0.0025	0.0035	1C19002	EPA 8081B	03/23/21 11:58	JJB	
Chlordane (tech) [12789-03-6]^	0.015	U	mg/kg dry	2	0.015	0.068	1C19002	EPA 8081B	03/23/21 11:58	JJB	
Chlordane-alpha [5103-71-9]^	0.0014	U	mg/kg dry	2	0.0014	0.0035	1C19002	EPA 8081B	03/23/21 11:58	JJB	
Chlordane-gamma [5103-74-2]^	0.0016	U	mg/kg dry	2	0.0016	0.0035	1C19002	EPA 8081B	03/23/21 11:58	JJB	
delta-BHC [319-86-8]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 11:58	JJB	
Dieldrin [60-57-1]^	0.00093	U	mg/kg dry	2	0.00093	0.0035	1C19002	EPA 8081B	03/23/21 11:58	JJB	
Endosulfan I [959-98-8]^	0.00082	U	mg/kg dry	2	0.00082	0.0035	1C19002	EPA 8081B	03/23/21 11:58	JJB	
Endosulfan II [33213-65-9]^	0.0018	U	mg/kg dry	2	0.0018	0.0035	1C19002	EPA 8081B	03/23/21 11:58	JJB	
Endosulfan sulfate [1031-07-8]^	0.0012	U	mg/kg dry	2	0.0012	0.0035	1C19002	EPA 8081B	03/23/21 11:58	JJB	
Endrin [72-20-8]^	0.0015	U	mg/kg dry	2	0.0015	0.0035	1C19002	EPA 8081B	03/23/21 11:58	JJB	
Endrin aldehyde [7421-93-4]^	0.0029	U	mg/kg dry	2	0.0029	0.0035	1C19002	EPA 8081B	03/23/21 11:58	JJB	
Endrin ketone [53494-70-5]^	0.0012	U	mg/kg dry	2	0.0012	0.0035	1C19002	EPA 8081B	03/23/21 11:58	JJB	
gamma-BHC [58-89-9]^	0.0012	U	mg/kg dry	2	0.0012	0.0035	1C19002	EPA 8081B	03/23/21 11:58	JJB	
Heptachlor [76-44-8]^	0.0014	U	mg/kg dry	2	0.0014	0.0035	1C19002	EPA 8081B	03/23/21 11:58	JJB	
Heptachlor epoxide [1024-57-3]^	0.0015	U	mg/kg dry	2	0.0015	0.0035	1C19002	EPA 8081B	03/23/21 11:58	JJB	
Isodrin [465-73-6]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 11:58	JJB	
Methoxychlor [72-43-5]^	0.0019	U	mg/kg dry	2	0.0019	0.0035	1C19002	EPA 8081B	03/23/21 11:58	JJB	
Mirex [2385-85-5]^	0.0023	U	mg/kg dry	2	0.0023	0.0035	1C19002	EPA 8081B	03/23/21 11:58	JJB	
Toxaphene [8001-35-2]^	0.035	U	mg/kg dry	2	0.035	0.068	1C19002	EPA 8081B	03/23/21 11:58	JJB	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.028*	*2*	*0.0344*	*82 %*	*20-137*	*1C19002*	*EPA 8081B*	*03/23/21 11:58*	*JJB*	
Decachlorobiphenyl	*0.030*	*2*	*0.0344*	*88 %*	*13-183*	*1C19002*	*EPA 8081B*	*03/23/21 11:58*	*JJB*	

ANALYTICAL RESULTS

Description: S6-0006 | **Lab Sample ID:** AE01807-03 | **Received:** 03/15/21 12:15

Matrix: Soil | **Sampled:** 03/15/21 08:40 | **Work Order:** AE01807

Project: Pelican Coast Soil and Groundwater Sampling | **Sampled By:** Brandon Selph | **% Solids:** 97.98

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8]^	**0.0027**	I	mg/kg dry	2	0.0016	0.0035	1C19002	EPA 8081B	03/23/21 12:10	JJB	
4,4'-DDE [72-55-9]^	**0.0062**		mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 12:10	JJB	
4,4'-DDT [50-29-3]^	**0.0021**	I	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 12:10	JJB	
Aldrin [309-00-2]^	0.0010	U	mg/kg dry	2	0.0010	0.0035	1C19002	EPA 8081B	03/23/21 12:10	JJB	
alpha-BHC [319-84-6]^	0.0011	U	mg/kg dry	2	0.0011	0.0035	1C19002	EPA 8081B	03/23/21 12:10	JJB	
beta-BHC [319-85-7]^	0.0024	U	mg/kg dry	2	0.0024	0.0035	1C19002	EPA 8081B	03/23/21 12:10	JJB	
Chlordane (tech) [12789-03-6]^	0.015	U	mg/kg dry	2	0.015	0.067	1C19002	EPA 8081B	03/23/21 12:10	JJB	
Chlordane-alpha [5103-71-9]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 12:10	JJB	
Chlordane-gamma [5103-74-2]^	0.0016	U	mg/kg dry	2	0.0016	0.0035	1C19002	EPA 8081B	03/23/21 12:10	JJB	
delta-BHC [319-86-8]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 12:10	JJB	
Dieldrin [60-57-1]^	0.00092	U	mg/kg dry	2	0.00092	0.0035	1C19002	EPA 8081B	03/23/21 12:10	JJB	
Endosulfan I [959-98-8]^	0.00082	U	mg/kg dry	2	0.00082	0.0035	1C19002	EPA 8081B	03/23/21 12:10	JJB	
Endosulfan II [33213-65-9]^	0.0018	U	mg/kg dry	2	0.0018	0.0035	1C19002	EPA 8081B	03/23/21 12:10	JJB	
Endosulfan sulfate [1031-07-8]^	0.0012	U	mg/kg dry	2	0.0012	0.0035	1C19002	EPA 8081B	03/23/21 12:10	JJB	
Endrin [72-20-8]^	0.0015	U	mg/kg dry	2	0.0015	0.0035	1C19002	EPA 8081B	03/23/21 12:10	JJB	
Endrin aldehyde [7421-93-4]^	0.0029	U	mg/kg dry	2	0.0029	0.0035	1C19002	EPA 8081B	03/23/21 12:10	JJB	
Endrin ketone [53494-70-5]^	0.0012	U	mg/kg dry	2	0.0012	0.0035	1C19002	EPA 8081B	03/23/21 12:10	JJB	
gamma-BHC [58-89-9]^	0.0012	U	mg/kg dry	2	0.0012	0.0035	1C19002	EPA 8081B	03/23/21 12:10	JJB	
Heptachlor [76-44-8]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 12:10	JJB	
Heptachlor epoxide [1024-57-3]^	0.0015	U	mg/kg dry	2	0.0015	0.0035	1C19002	EPA 8081B	03/23/21 12:10	JJB	
Isodrin [465-73-6]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 12:10	JJB	
Methoxychlor [72-43-5]^	0.0019	U	mg/kg dry	2	0.0019	0.0035	1C19002	EPA 8081B	03/23/21 12:10	JJB	
Mirex [2385-85-5]^	0.0022	U	mg/kg dry	2	0.0022	0.0035	1C19002	EPA 8081B	03/23/21 12:10	JJB	
Toxaphene [8001-35-2]^	0.035	U	mg/kg dry	2	0.035	0.067	1C19002	EPA 8081B	03/23/21 12:10	JJB	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.022*	*2*	*0.0342*	*64 %*	*20-137*	*1C19002*	*EPA 8081B*	*03/23/21 12:10*	*JJB*	
Decachlorobiphenyl	*0.026*	*2*	*0.0342*	*76 %*	*13-183*	*1C19002*	*EPA 8081B*	*03/23/21 12:10*	*JJB*	

ANALYTICAL RESULTS

Description: S6-0618 | **Lab Sample ID:** AE01807-04 | **Received:** 03/15/21 12:15
Matrix: Soil | **Sampled:** 03/15/21 08:45 | **Work Order:** AE01807
Project: Pelican Coast Soil and Groundwater Sampling | **Sampled By:** Brandon Selph | **% Solids:** 97.41

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8]^	0.0016	U	mg/kg dry	2	0.0016	0.0035	1C19002	EPA 8081B	03/23/21 12:23	JJB	
4,4'-DDE [72-55-9]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 12:23	JJB	
4,4'-DDT [50-29-3]^	0.0014	U	mg/kg dry	2	0.0014	0.0035	1C19002	EPA 8081B	03/23/21 12:23	JJB	
Aldrin [309-00-2]^	0.0010	U	mg/kg dry	2	0.0010	0.0035	1C19002	EPA 8081B	03/23/21 12:23	JJB	
alpha-BHC [319-84-6]^	0.0011	U	mg/kg dry	2	0.0011	0.0035	1C19002	EPA 8081B	03/23/21 12:23	JJB	
beta-BHC [319-85-7]^	0.0025	U	mg/kg dry	2	0.0025	0.0035	1C19002	EPA 8081B	03/23/21 12:23	JJB	
Chlordane (tech) [12789-03-6]^	0.015	U	mg/kg dry	2	0.015	0.068	1C19002	EPA 8081B	03/23/21 12:23	JJB	
Chlordane-alpha [5103-71-9]^	0.0014	U	mg/kg dry	2	0.0014	0.0035	1C19002	EPA 8081B	03/23/21 12:23	JJB	
Chlordane-gamma [5103-74-2]^	0.0016	U	mg/kg dry	2	0.0016	0.0035	1C19002	EPA 8081B	03/23/21 12:23	JJB	
delta-BHC [319-86-8]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 12:23	JJB	
Dieldrin [60-57-1]^	0.00092	U	mg/kg dry	2	0.00092	0.0035	1C19002	EPA 8081B	03/23/21 12:23	JJB	
Endosulfan I [959-98-8]^	0.00082	U	mg/kg dry	2	0.00082	0.0035	1C19002	EPA 8081B	03/23/21 12:23	JJB	
Endosulfan II [33213-65-9]^	0.0018	U	mg/kg dry	2	0.0018	0.0035	1C19002	EPA 8081B	03/23/21 12:23	JJB	
Endosulfan sulfate [1031-07-8]^	0.0012	U	mg/kg dry	2	0.0012	0.0035	1C19002	EPA 8081B	03/23/21 12:23	JJB	
Endrin [72-20-8]^	0.0015	U	mg/kg dry	2	0.0015	0.0035	1C19002	EPA 8081B	03/23/21 12:23	JJB	
Endrin aldehyde [7421-93-4]^	0.0029	U	mg/kg dry	2	0.0029	0.0035	1C19002	EPA 8081B	03/23/21 12:23	JJB	
Endrin ketone [53494-70-5]^	0.0012	U	mg/kg dry	2	0.0012	0.0035	1C19002	EPA 8081B	03/23/21 12:23	JJB	
gamma-BHC [58-89-9]^	0.0012	U	mg/kg dry	2	0.0012	0.0035	1C19002	EPA 8081B	03/23/21 12:23	JJB	
Heptachlor [76-44-8]^	0.0014	U	mg/kg dry	2	0.0014	0.0035	1C19002	EPA 8081B	03/23/21 12:23	JJB	
Heptachlor epoxide [1024-57-3]^	0.0015	U	mg/kg dry	2	0.0015	0.0035	1C19002	EPA 8081B	03/23/21 12:23	JJB	
Isodrin [465-73-6]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 12:23	JJB	
Methoxychlor [72-43-5]^	0.0019	U	mg/kg dry	2	0.0019	0.0035	1C19002	EPA 8081B	03/23/21 12:23	JJB	
Mirex [2385-85-5]^	0.0023	U	mg/kg dry	2	0.0023	0.0035	1C19002	EPA 8081B	03/23/21 12:23	JJB	
Toxaphene [8001-35-2]^	0.035	U	mg/kg dry	2	0.035	0.068	1C19002	EPA 8081B	03/23/21 12:23	JJB	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.025*	*2*	*0.0342*	*72 %*	*20-137*	*1C19002*	*EPA 8081B*	*03/23/21 12:23*	*JJB*	
Decachlorobiphenyl	*0.027*	*2*	*0.0342*	*80 %*	*13-183*	*1C19002*	*EPA 8081B*	*03/23/21 12:23*	*JJB*	

ANALYTICAL RESULTS

Description: S7-0006 | **Lab Sample ID:** AE01807-05 | **Received:** 03/15/21 12:15
Matrix: Soil | **Sampled:** 03/15/21 08:50 | **Work Order:** AE01807
Project: Pelican Coast Soil and Groundwater Sampling | **Sampled By:** Brandon Selph | **% Solids:** 98.35

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8]^	**0.17**		mg/kg dry	2	0.0016	0.0035	1C19002	EPA 8081B	03/23/21 12:38	JJB	
4,4'-DDE [72-55-9]^	**0.058**		mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 12:38	JJB	
4,4'-DDT [50-29-3]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 12:38	JJB	
Aldrin [309-00-2]^	0.0010	U	mg/kg dry	2	0.0010	0.0035	1C19002	EPA 8081B	03/23/21 12:38	JJB	
alpha-BHC [319-84-6]^	0.0011	U	mg/kg dry	2	0.0011	0.0035	1C19002	EPA 8081B	03/23/21 12:38	JJB	
beta-BHC [319-85-7]^	0.0024	U	mg/kg dry	2	0.0024	0.0035	1C19002	EPA 8081B	03/23/21 12:38	JJB	
Chlordane (tech) [12789-03-6]^	0.015	U	mg/kg dry	2	0.015	0.067	1C19002	EPA 8081B	03/23/21 12:38	JJB	
Chlordane-alpha [5103-71-9]^	**0.16**		mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 12:38	JJB	
Chlordane-gamma [5103-74-2]^	**0.12**		mg/kg dry	2	0.0016	0.0035	1C19002	EPA 8081B	03/23/21 12:38	JJB	
delta-BHC [319-86-8]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 12:38	JJB	
Dieldrin [60-57-1]^	0.00092	U	mg/kg dry	2	0.00092	0.0035	1C19002	EPA 8081B	03/23/21 12:38	JJB	
Endosulfan I [959-98-8]^	0.00081	U	mg/kg dry	2	0.00081	0.0035	1C19002	EPA 8081B	03/23/21 12:38	JJB	
Endosulfan II [33213-65-9]^	0.0018	U	mg/kg dry	2	0.0018	0.0035	1C19002	EPA 8081B	03/23/21 12:38	JJB	
Endosulfan sulfate [1031-07-8]^	0.0012	U	mg/kg dry	2	0.0012	0.0035	1C19002	EPA 8081B	03/23/21 12:38	JJB	
Endrin [72-20-8]^	0.0015	U	mg/kg dry	2	0.0015	0.0035	1C19002	EPA 8081B	03/23/21 12:38	JJB	
Endrin aldehyde [7421-93-4]^	0.0028	U	mg/kg dry	2	0.0028	0.0035	1C19002	EPA 8081B	03/23/21 12:38	JJB	
Endrin ketone [53494-70-5]^	0.0012	U	mg/kg dry	2	0.0012	0.0035	1C19002	EPA 8081B	03/23/21 12:38	JJB	
gamma-BHC [58-89-9]^	0.0012	U	mg/kg dry	2	0.0012	0.0035	1C19002	EPA 8081B	03/23/21 12:38	JJB	
Heptachlor [76-44-8]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 12:38	JJB	
Heptachlor epoxide [1024-57-3]^	0.0015	U	mg/kg dry	2	0.0015	0.0035	1C19002	EPA 8081B	03/23/21 12:38	JJB	
Isodrin [465-73-6]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 12:38	JJB	
Methoxychlor [72-43-5]^	0.0019	U	mg/kg dry	2	0.0019	0.0035	1C19002	EPA 8081B	03/23/21 12:38	JJB	
Mirex [2385-85-5]^	0.0022	U	mg/kg dry	2	0.0022	0.0035	1C19002	EPA 8081B	03/23/21 12:38	JJB	
Toxaphene [8001-35-2]^	0.035	U	mg/kg dry	2	0.035	0.067	1C19002	EPA 8081B	03/23/21 12:38	JJB	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.024*	*2*	*0.0340*	*72 %*	*20-137*	*1C19002*	*EPA 8081B*	*03/23/21 12:38*	*JJB*	
Decachlorobiphenyl	*0.023*	*2*	*0.0340*	*68 %*	*13-183*	*1C19002*	*EPA 8081B*	*03/23/21 12:38*	*JJB*	

ANALYTICAL RESULTS

Description: S7-0618 | **Lab Sample ID:** AE01807-06 | **Received:** 03/15/21 12:15

Matrix: Soil | **Sampled:** 03/15/21 08:55 | **Work Order:** AE01807

Project: Pelican Coast Soil and Groundwater Sampling | **Sampled By:** Brandon Selph | **% Solids:** 97.52

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8]^	**0.0082**		mg/kg dry	2	0.0016	0.0035	1C19002	EPA 8081B	03/23/21 12:51	JJB	
4,4'-DDE [72-55-9]^	**0.0027**	I	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 12:51	JJB	
4,4'-DDT [50-29-3]^	0.0014	U	mg/kg dry	2	0.0014	0.0035	1C19002	EPA 8081B	03/23/21 12:51	JJB	
Aldrin [309-00-2]^	0.0010	U	mg/kg dry	2	0.0010	0.0035	1C19002	EPA 8081B	03/23/21 12:51	JJB	
alpha-BHC [319-84-6]^	0.0011	U	mg/kg dry	2	0.0011	0.0035	1C19002	EPA 8081B	03/23/21 12:51	JJB	
beta-BHC [319-85-7]^	0.0025	U	mg/kg dry	2	0.0025	0.0035	1C19002	EPA 8081B	03/23/21 12:51	JJB	
Chlordane (tech) [12789-03-6]^	0.015	U	mg/kg dry	2	0.015	0.068	1C19002	EPA 8081B	03/23/21 12:51	JJB	
Chlordane-alpha [5103-71-9]^	**0.0069**		mg/kg dry	2	0.0014	0.0035	1C19002	EPA 8081B	03/23/21 12:51	JJB	
Chlordane-gamma [5103-74-2]^	**0.0048**		mg/kg dry	2	0.0016	0.0035	1C19002	EPA 8081B	03/23/21 12:51	JJB	
delta-BHC [319-86-8]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 12:51	JJB	
Dieldrin [60-57-1]^	0.00092	U	mg/kg dry	2	0.00092	0.0035	1C19002	EPA 8081B	03/23/21 12:51	JJB	
Endosulfan I [959-98-8]^	0.00082	U	mg/kg dry	2	0.00082	0.0035	1C19002	EPA 8081B	03/23/21 12:51	JJB	
Endosulfan II [33213-65-9]^	0.0018	U	mg/kg dry	2	0.0018	0.0035	1C19002	EPA 8081B	03/23/21 12:51	JJB	
Endosulfan sulfate [1031-07-8]^	0.0012	U	mg/kg dry	2	0.0012	0.0035	1C19002	EPA 8081B	03/23/21 12:51	JJB	
Endrin [72-20-8]^	0.0015	U	mg/kg dry	2	0.0015	0.0035	1C19002	EPA 8081B	03/23/21 12:51	JJB	
Endrin aldehyde [7421-93-4]^	0.0029	U	mg/kg dry	2	0.0029	0.0035	1C19002	EPA 8081B	03/23/21 12:51	JJB	
Endrin ketone [53494-70-5]^	0.0012	U	mg/kg dry	2	0.0012	0.0035	1C19002	EPA 8081B	03/23/21 12:51	JJB	
gamma-BHC [58-89-9]^	0.0012	U	mg/kg dry	2	0.0012	0.0035	1C19002	EPA 8081B	03/23/21 12:51	JJB	
Heptachlor [76-44-8]^	0.0014	U	mg/kg dry	2	0.0014	0.0035	1C19002	EPA 8081B	03/23/21 12:51	JJB	
Heptachlor epoxide [1024-57-3]^	0.0015	U	mg/kg dry	2	0.0015	0.0035	1C19002	EPA 8081B	03/23/21 12:51	JJB	
Isodrin [465-73-6]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 12:51	JJB	
Methoxychlor [72-43-5]^	0.0019	U	mg/kg dry	2	0.0019	0.0035	1C19002	EPA 8081B	03/23/21 12:51	JJB	
Mirex [2385-85-5]^	0.0023	U	mg/kg dry	2	0.0023	0.0035	1C19002	EPA 8081B	03/23/21 12:51	JJB	
Toxaphene [8001-35-2]^	0.035	U	mg/kg dry	2	0.035	0.068	1C19002	EPA 8081B	03/23/21 12:51	JJB	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.031*	*2*	*0.0343*	*90 %*	*20-137*	*1C19002*	*EPA 8081B*	*03/23/21 12:51*	*JJB*	
Decachlorobiphenyl	*0.029*	*2*	*0.0343*	*86 %*	*13-183*	*1C19002*	*EPA 8081B*	*03/23/21 12:51*	*JJB*	

ANALYTICAL RESULTS

Description: S9-0006 | **Lab Sample ID:** AE01807-07 | **Received:** 03/15/21 12:15
Matrix: Soil | **Sampled:** 03/15/21 09:00 | **Work Order:** AE01807
Project: Pelican Coast Soil and Groundwater Sampling | **Sampled By:** Brandon Selph | **% Solids:** 97.92

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8]^	0.0016	U	mg/kg dry	2	0.0016	0.0035	1C19002	EPA 8081B	03/23/21 13:03	JJB	
4,4'-DDE [72-55-9]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 13:03	JJB	
4,4'-DDT [50-29-3]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 13:03	JJB	
Aldrin [309-00-2]^	0.0010	U	mg/kg dry	2	0.0010	0.0035	1C19002	EPA 8081B	03/23/21 13:03	JJB	
alpha-BHC [319-84-6]^	0.0011	U	mg/kg dry	2	0.0011	0.0035	1C19002	EPA 8081B	03/23/21 13:03	JJB	
beta-BHC [319-85-7]^	0.0025	U	mg/kg dry	2	0.0025	0.0035	1C19002	EPA 8081B	03/23/21 13:03	JJB	
Chlordane (tech) [12789-03-6]^	0.015	U	mg/kg dry	2	0.015	0.067	1C19002	EPA 8081B	03/23/21 13:03	JJB	
Chlordane-alpha [5103-71-9]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 13:03	JJB	
Chlordane-gamma [5103-74-2]^	0.0016	U	mg/kg dry	2	0.0016	0.0035	1C19002	EPA 8081B	03/23/21 13:03	JJB	
delta-BHC [319-86-8]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 13:03	JJB	
Dieldrin [60-57-1]^	0.00092	U	mg/kg dry	2	0.00092	0.0035	1C19002	EPA 8081B	03/23/21 13:03	JJB	
Endosulfan I [959-98-8]^	0.00082	U	mg/kg dry	2	0.00082	0.0035	1C19002	EPA 8081B	03/23/21 13:03	JJB	
Endosulfan II [33213-65-9]^	0.0018	U	mg/kg dry	2	0.0018	0.0035	1C19002	EPA 8081B	03/23/21 13:03	JJB	
Endosulfan sulfate [1031-07-8]^	0.0012	U	mg/kg dry	2	0.0012	0.0035	1C19002	EPA 8081B	03/23/21 13:03	JJB	
Endrin [72-20-8]^	0.0015	U	mg/kg dry	2	0.0015	0.0035	1C19002	EPA 8081B	03/23/21 13:03	JJB	
Endrin aldehyde [7421-93-4]^	0.0029	U	mg/kg dry	2	0.0029	0.0035	1C19002	EPA 8081B	03/23/21 13:03	JJB	
Endrin ketone [53494-70-5]^	0.0012	U	mg/kg dry	2	0.0012	0.0035	1C19002	EPA 8081B	03/23/21 13:03	JJB	
gamma-BHC [58-89-9]^	0.0012	U	mg/kg dry	2	0.0012	0.0035	1C19002	EPA 8081B	03/23/21 13:03	JJB	
Heptachlor [76-44-8]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 13:03	JJB	
Heptachlor epoxide [1024-57-3]^	0.0015	U	mg/kg dry	2	0.0015	0.0035	1C19002	EPA 8081B	03/23/21 13:03	JJB	
Isodrin [465-73-6]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 13:03	JJB	
Methoxychlor [72-43-5]^	0.0019	U	mg/kg dry	2	0.0019	0.0035	1C19002	EPA 8081B	03/23/21 13:03	JJB	
Mirex [2385-85-5]^	0.0022	U	mg/kg dry	2	0.0022	0.0035	1C19002	EPA 8081B	03/23/21 13:03	JJB	
Toxaphene [8001-35-2]^	0.035	U	mg/kg dry	2	0.035	0.067	1C19002	EPA 8081B	03/23/21 13:03	JJB	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.025*	*2*	*0.0339*	*74 %*	*20-137*	*1C19002*	*EPA 8081B*	*03/23/21 13:03*	*JJB*	
Decachlorobiphenyl	*0.027*	*2*	*0.0339*	*80 %*	*13-183*	*1C19002*	*EPA 8081B*	*03/23/21 13:03*	*JJB*	

ANALYTICAL RESULTS

Description: S9-0618 | **Lab Sample ID:** AE01807-08 | **Received:** 03/15/21 12:15
Matrix: Soil | **Sampled:** 03/15/21 09:05 | **Work Order:** AE01807
Project: Pelican Coast Soil and Groundwater Sampling | **Sampled By:** Brandon Selph | **% Solids:** 97.02

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8]^	0.0016	U	mg/kg dry	2	0.0016	0.0035	1C19002	EPA 8081B	03/23/21 13:16	JJB	
4,4'-DDE [72-55-9]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 13:16	JJB	
4,4'-DDT [50-29-3]^	0.0014	U	mg/kg dry	2	0.0014	0.0035	1C19002	EPA 8081B	03/23/21 13:16	JJB	
Aldrin [309-00-2]^	0.0011	U	mg/kg dry	2	0.0011	0.0035	1C19002	EPA 8081B	03/23/21 13:16	JJB	
alpha-BHC [319-84-6]^	0.0012	U	mg/kg dry	2	0.0012	0.0035	1C19002	EPA 8081B	03/23/21 13:16	JJB	
beta-BHC [319-85-7]^	0.0025	U	mg/kg dry	2	0.0025	0.0035	1C19002	EPA 8081B	03/23/21 13:16	JJB	
Chlordane (tech) [12789-03-6]^	0.015	U	mg/kg dry	2	0.015	0.068	1C19002	EPA 8081B	03/23/21 13:16	JJB	
Chlordane-alpha [5103-71-9]^	0.0014	U	mg/kg dry	2	0.0014	0.0035	1C19002	EPA 8081B	03/23/21 13:16	JJB	
Chlordane-gamma [5103-74-2]^	0.0016	U	mg/kg dry	2	0.0016	0.0035	1C19002	EPA 8081B	03/23/21 13:16	JJB	
delta-BHC [319-86-8]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 13:16	JJB	
Dieldrin [60-57-1]^	0.00093	U	mg/kg dry	2	0.00093	0.0035	1C19002	EPA 8081B	03/23/21 13:16	JJB	
Endosulfan I [959-98-8]^	0.00082	U	mg/kg dry	2	0.00082	0.0035	1C19002	EPA 8081B	03/23/21 13:16	JJB	
Endosulfan II [33213-65-9]^	0.0018	U	mg/kg dry	2	0.0018	0.0035	1C19002	EPA 8081B	03/23/21 13:16	JJB	
Endosulfan sulfate [1031-07-8]^	0.0012	U	mg/kg dry	2	0.0012	0.0035	1C19002	EPA 8081B	03/23/21 13:16	JJB	
Endrin [72-20-8]^	0.0015	U	mg/kg dry	2	0.0015	0.0035	1C19002	EPA 8081B	03/23/21 13:16	JJB	
Endrin aldehyde [7421-93-4]^	0.0029	U	mg/kg dry	2	0.0029	0.0035	1C19002	EPA 8081B	03/23/21 13:16	JJB	
Endrin ketone [53494-70-5]^	0.0012	U	mg/kg dry	2	0.0012	0.0035	1C19002	EPA 8081B	03/23/21 13:16	JJB	
gamma-BHC [58-89-9]^	0.0012	U	mg/kg dry	2	0.0012	0.0035	1C19002	EPA 8081B	03/23/21 13:16	JJB	
Heptachlor [76-44-8]^	0.0014	U	mg/kg dry	2	0.0014	0.0035	1C19002	EPA 8081B	03/23/21 13:16	JJB	
Heptachlor epoxide [1024-57-3]^	0.0015	U	mg/kg dry	2	0.0015	0.0035	1C19002	EPA 8081B	03/23/21 13:16	JJB	
Isodrin [465-73-6]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 13:16	JJB	
Methoxychlor [72-43-5]^	0.0019	U	mg/kg dry	2	0.0019	0.0035	1C19002	EPA 8081B	03/23/21 13:16	JJB	
Mirex [2385-85-5]^	0.0023	U	mg/kg dry	2	0.0023	0.0035	1C19002	EPA 8081B	03/23/21 13:16	JJB	
Toxaphene [8001-35-2]^	0.035	U	mg/kg dry	2	0.035	0.068	1C19002	EPA 8081B	03/23/21 13:16	JJB	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.027*	*2*	*0.0344*	*78 %*	*20-137*	*1C19002*	*EPA 8081B*	*03/23/21 13:16*	*JJB*	
Decachlorobiphenyl	*0.031*	*2*	*0.0344*	*90 %*	*13-183*	*1C19002*	*EPA 8081B*	*03/23/21 13:16*	*JJB*	

ANALYTICAL RESULTS

Description: S4-0006
Matrix: Soil
Project: Pelican Coast Soil and Groundwater Sampling

Lab Sample ID: AE01807-09
Sampled: 03/15/21 09:15
Sampled By: Brandon Selph

Received: 03/15/21 12:15
Work Order: AE01807
% Solids: 99.46

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8]^	**0.0067**		mg/kg dry	2	0.0016	0.0034	1C19002	EPA 8081B	03/23/21 11:33	JJB	
4,4'-DDE [72-55-9]^	**0.0067**		mg/kg dry	2	0.0013	0.0034	1C19002	EPA 8081B	03/23/21 11:33	JJB	
4,4'-DDT [50-29-3]^	**0.0040**		mg/kg dry	2	0.0013	0.0034	1C19002	EPA 8081B	03/23/21 11:33	JJB	
Aldrin [309-00-2]^	0.0010	U	mg/kg dry	2	0.0010	0.0034	1C19002	EPA 8081B	03/23/21 11:33	JJB	
alpha-BHC [319-84-6]^	0.0011	U	mg/kg dry	2	0.0011	0.0034	1C19002	EPA 8081B	03/23/21 11:33	JJB	
beta-BHC [319-85-7]^	0.0024	U	mg/kg dry	2	0.0024	0.0034	1C19002	EPA 8081B	03/23/21 11:33	JJB	
Chlordane (tech) [12789-03-6]^	0.014	U	mg/kg dry	2	0.014	0.066	1C19002	EPA 8081B	03/23/21 11:33	JJB	
Chlordane-alpha [5103-71-9]^	**0.0013**	I	mg/kg dry	2	0.0013	0.0034	1C19002	EPA 8081B	03/23/21 11:33	JJB	
Chlordane-gamma [5103-74-2]^	**0.0020**	I	mg/kg dry	2	0.0015	0.0034	1C19002	EPA 8081B	03/23/21 11:33	JJB	
delta-BHC [319-86-8]^	0.0012	U	mg/kg dry	2	0.0012	0.0034	1C19002	EPA 8081B	03/23/21 11:33	JJB	
Dieldrin [60-57-1]^	0.00090	U	mg/kg dry	2	0.00090	0.0034	1C19002	EPA 8081B	03/23/21 11:33	JJB	
Endosulfan I [959-98-8]^	0.00080	U	mg/kg dry	2	0.00080	0.0034	1C19002	EPA 8081B	03/23/21 11:33	JJB	
Endosulfan II [33213-65-9]^	0.0017	U	mg/kg dry	2	0.0017	0.0034	1C19002	EPA 8081B	03/23/21 11:33	JJB	
Endosulfan sulfate [1031-07-8]^	0.0012	U	mg/kg dry	2	0.0012	0.0034	1C19002	EPA 8081B	03/23/21 11:33	JJB	
Endrin [72-20-8]^	0.0015	U	mg/kg dry	2	0.0015	0.0034	1C19002	EPA 8081B	03/23/21 11:33	JJB	
Endrin aldehyde [7421-93-4]^	0.0028	U	mg/kg dry	2	0.0028	0.0034	1C19002	EPA 8081B	03/23/21 11:33	JJB	
Endrin ketone [53494-70-5]^	0.0012	U	mg/kg dry	2	0.0012	0.0034	1C19002	EPA 8081B	03/23/21 11:33	JJB	
gamma-BHC [58-89-9]^	0.0012	U	mg/kg dry	2	0.0012	0.0034	1C19002	EPA 8081B	03/23/21 11:33	JJB	
Heptachlor [76-44-8]^	0.0013	U	mg/kg dry	2	0.0013	0.0034	1C19002	EPA 8081B	03/23/21 11:33	JJB	
Heptachlor epoxide [1024-57-3]^	0.0015	U	mg/kg dry	2	0.0015	0.0034	1C19002	EPA 8081B	03/23/21 11:33	JJB	
Isodrin [465-73-6]^	0.0012	U	mg/kg dry	2	0.0012	0.0034	1C19002	EPA 8081B	03/23/21 11:33	JJB	
Methoxychlor [72-43-5]^	0.0019	U	mg/kg dry	2	0.0019	0.0034	1C19002	EPA 8081B	03/23/21 11:33	JJB	
Mirex [2385-85-5]^	0.0022	U	mg/kg dry	2	0.0022	0.0034	1C19002	EPA 8081B	03/23/21 11:33	JJB	
Toxaphene [8001-35-2]^	0.034	U	mg/kg dry	2	0.034	0.066	1C19002	EPA 8081B	03/23/21 11:33	JJB	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.019*	*2*	*0.0335*	*56 %*	*20-137*	*1C19002*	*EPA 8081B*	*03/23/21 11:33*	*JJB*	
Decachlorobiphenyl	*0.024*	*2*	*0.0335*	*72 %*	*13-183*	*1C19002*	*EPA 8081B*	*03/23/21 11:33*	*JJB*	

ANALYTICAL RESULTS

Description: S4-0618
Matrix: Soil
Project: Pelican Coast Soil and Groundwater Sampling

Lab Sample ID: AE01807-10
Sampled: 03/15/21 09:20
Sampled By: Brandon Selph

Received: 03/15/21 12:15
Work Order: AE01807
% Solids: 93.82

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8]^	**0.0021**	I	mg/kg dry	2	0.0017	0.0036	1C19002	EPA 8081B	03/23/21 13:28	JJB	
4,4'-DDE [72-55-9]^	**0.0021**	I	mg/kg dry	2	0.0014	0.0036	1C19002	EPA 8081B	03/23/21 13:28	JJB	
4,4'-DDT [50-29-3]^	**0.0028**	I	mg/kg dry	2	0.0014	0.0036	1C19002	EPA 8081B	03/23/21 13:28	JJB	
Aldrin [309-00-2]^	0.0011	U	mg/kg dry	2	0.0011	0.0036	1C19002	EPA 8081B	03/23/21 13:28	JJB	
alpha-BHC [319-84-6]^	0.0012	U	mg/kg dry	2	0.0012	0.0036	1C19002	EPA 8081B	03/23/21 13:28	JJB	
beta-BHC [319-85-7]^	0.0026	U	mg/kg dry	2	0.0026	0.0036	1C19002	EPA 8081B	03/23/21 13:28	JJB	
Chlordane (tech) [12789-03-6]^	0.015	U	mg/kg dry	2	0.015	0.070	1C19002	EPA 8081B	03/23/21 13:28	JJB	
Chlordane-alpha [5103-71-9]^	0.0014	U	mg/kg dry	2	0.0014	0.0036	1C19002	EPA 8081B	03/23/21 13:28	JJB	
Chlordane-gamma [5103-74-2]^	0.0016	U	mg/kg dry	2	0.0016	0.0036	1C19002	EPA 8081B	03/23/21 13:28	JJB	
delta-BHC [319-86-8]^	0.0013	U	mg/kg dry	2	0.0013	0.0036	1C19002	EPA 8081B	03/23/21 13:28	JJB	
Dieldrin [60-57-1]^	0.00096	U	mg/kg dry	2	0.00096	0.0036	1C19002	EPA 8081B	03/23/21 13:28	JJB	
Endosulfan I [959-98-8]^	0.00085	U	mg/kg dry	2	0.00085	0.0036	1C19002	EPA 8081B	03/23/21 13:28	JJB	
Endosulfan II [33213-65-9]^	0.0019	U	mg/kg dry	2	0.0019	0.0036	1C19002	EPA 8081B	03/23/21 13:28	JJB	
Endosulfan sulfate [1031-07-8]^	0.0013	U	mg/kg dry	2	0.0013	0.0036	1C19002	EPA 8081B	03/23/21 13:28	JJB	
Endrin [72-20-8]^	0.0016	U	mg/kg dry	2	0.0016	0.0036	1C19002	EPA 8081B	03/23/21 13:28	JJB	
Endrin aldehyde [7421-93-4]^	0.0030	U	mg/kg dry	2	0.0030	0.0036	1C19002	EPA 8081B	03/23/21 13:28	JJB	
Endrin ketone [53494-70-5]^	0.0013	U	mg/kg dry	2	0.0013	0.0036	1C19002	EPA 8081B	03/23/21 13:28	JJB	
gamma-BHC [58-89-9]^	0.0013	U	mg/kg dry	2	0.0013	0.0036	1C19002	EPA 8081B	03/23/21 13:28	JJB	
Heptachlor [76-44-8]^	0.0014	U	mg/kg dry	2	0.0014	0.0036	1C19002	EPA 8081B	03/23/21 13:28	JJB	
Heptachlor epoxide [1024-57-3]^	0.0016	U	mg/kg dry	2	0.0016	0.0036	1C19002	EPA 8081B	03/23/21 13:28	JJB	
Isodrin [465-73-6]^	0.0013	U	mg/kg dry	2	0.0013	0.0036	1C19002	EPA 8081B	03/23/21 13:28	JJB	
Methoxychlor [72-43-5]^	0.0020	U	mg/kg dry	2	0.0020	0.0036	1C19002	EPA 8081B	03/23/21 13:28	JJB	
Mirex [2385-85-5]^	0.0023	U	mg/kg dry	2	0.0023	0.0036	1C19002	EPA 8081B	03/23/21 13:28	JJB	
Toxaphene [8001-35-2]^	0.036	U	mg/kg dry	2	0.036	0.070	1C19002	EPA 8081B	03/23/21 13:28	JJB	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.020*	*2*	*0.0355*	*56 %*	*20-137*	*1C19002*	*EPA 8081B*	*03/23/21 13:28*	*JJB*	
Decachlorobiphenyl	*0.023*	*2*	*0.0355*	*66 %*	*13-183*	*1C19002*	*EPA 8081B*	*03/23/21 13:28*	*JJB*	

www.encolabs.com

ANALYTICAL RESULTS

Description: S5-0006	**Lab Sample ID:** AE01807-11	**Received:** 03/15/21 12:15
Matrix: Soil	**Sampled:** 03/15/21 09:30	**Work Order:** AE01807
Project: Pelican Coast Soil and Groundwater Sampling	**Sampled By:** Brandon Selph	**% Solids:** 98.80

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8]^	**0.0027**	I	mg/kg dry	2	0.0016	0.0034	1C19002	EPA 8081B	03/23/21 13:41	JJB	
4,4'-DDE [72-55-9]^	**0.0013**	I	mg/kg dry	2	0.0013	0.0034	1C19002	EPA 8081B	03/23/21 13:41	JJB	
4,4'-DDT [50-29-3]^	0.0013	U	mg/kg dry	2	0.0013	0.0034	1C19002	EPA 8081B	03/23/21 13:41	JJB	
Aldrin [309-00-2]^	0.0010	U	mg/kg dry	2	0.0010	0.0034	1C19002	EPA 8081B	03/23/21 13:41	JJB	
alpha-BHC [319-84-6]^	0.0011	U	mg/kg dry	2	0.0011	0.0034	1C19002	EPA 8081B	03/23/21 13:41	JJB	
beta-BHC [319-85-7]^	0.0024	U	mg/kg dry	2	0.0024	0.0034	1C19002	EPA 8081B	03/23/21 13:41	JJB	
Chlordane (tech) [12789-03-6]^	0.015	U	mg/kg dry	2	0.015	0.067	1C19002	EPA 8081B	03/23/21 13:41	JJB	
Chlordane-alpha [5103-71-9]^	0.0013	U	mg/kg dry	2	0.0013	0.0034	1C19002	EPA 8081B	03/23/21 13:41	JJB	
Chlordane-gamma [5103-74-2]^	0.0016	U	mg/kg dry	2	0.0016	0.0034	1C19002	EPA 8081B	03/23/21 13:41	JJB	
delta-BHC [319-86-8]^	0.0013	U	mg/kg dry	2	0.0013	0.0034	1C19002	EPA 8081B	03/23/21 13:41	JJB	
Dieldrin [60-57-1]^	0.00091	U	mg/kg dry	2	0.00091	0.0034	1C19002	EPA 8081B	03/23/21 13:41	JJB	
Endosulfan I [959-98-8]^	0.00081	U	mg/kg dry	2	0.00081	0.0034	1C19002	EPA 8081B	03/23/21 13:41	JJB	
Endosulfan II [33213-65-9]^	0.0018	U	mg/kg dry	2	0.0018	0.0034	1C19002	EPA 8081B	03/23/21 13:41	JJB	
Endosulfan sulfate [1031-07-8]^	0.0012	U	mg/kg dry	2	0.0012	0.0034	1C19002	EPA 8081B	03/23/21 13:41	JJB	
Endrin [72-20-8]^	0.0015	U	mg/kg dry	2	0.0015	0.0034	1C19002	EPA 8081B	03/23/21 13:41	JJB	
Endrin aldehyde [7421-93-4]^	0.0028	U	mg/kg dry	2	0.0028	0.0034	1C19002	EPA 8081B	03/23/21 13:41	JJB	
Endrin ketone [53494-70-5]^	0.0012	U	mg/kg dry	2	0.0012	0.0034	1C19002	EPA 8081B	03/23/21 13:41	JJB	
gamma-BHC [58-89-9]^	0.0012	U	mg/kg dry	2	0.0012	0.0034	1C19002	EPA 8081B	03/23/21 13:41	JJB	
Heptachlor [76-44-8]^	0.0013	U	mg/kg dry	2	0.0013	0.0034	1C19002	EPA 8081B	03/23/21 13:41	JJB	
Heptachlor epoxide [1024-57-3]^	0.0015	U	mg/kg dry	2	0.0015	0.0034	1C19002	EPA 8081B	03/23/21 13:41	JJB	
Isodrin [465-73-6]^	0.0013	U	mg/kg dry	2	0.0013	0.0034	1C19002	EPA 8081B	03/23/21 13:41	JJB	
Methoxychlor [72-43-5]^	0.0019	U	mg/kg dry	2	0.0019	0.0034	1C19002	EPA 8081B	03/23/21 13:41	JJB	
Mirex [2385-85-5]^	0.0022	U	mg/kg dry	2	0.0022	0.0034	1C19002	EPA 8081B	03/23/21 13:41	JJB	
Toxaphene [8001-35-2]^	0.034	U	mg/kg dry	2	0.034	0.067	1C19002	EPA 8081B	03/23/21 13:41	JJB	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.032*	*2*	*0.0334*	*96 %*	*20-137*	*1C19002*	*EPA 8081B*	*03/23/21 13:41*	*JJB*	
Decachlorobiphenyl	*0.027*	*2*	*0.0334*	*82 %*	*13-183*	*1C19002*	*EPA 8081B*	*03/23/21 13:41*	*JJB*	

ANALYTICAL RESULTS

Description: S5-0618 | **Lab Sample ID:** AE01807-12 | **Received:** 03/15/21 12:15
Matrix: Soil | **Sampled:** 03/15/21 09:35 | **Work Order:** AE01807
Project: Pelican Coast Soil and Groundwater Sampling | **Sampled By:** Brandon Selph | **% Solids:** 96.52

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8]^	0.0017	U	mg/kg dry	2	0.0017	0.0035	1C19002	EPA 8081B	03/23/21 13:53	JJB	
4,4'-DDE [72-55-9]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 13:53	JJB	
4,4'-DDT [50-29-3]^	0.0014	U	mg/kg dry	2	0.0014	0.0035	1C19002	EPA 8081B	03/23/21 13:53	JJB	
Aldrin [309-00-2]^	0.0011	U	mg/kg dry	2	0.0011	0.0035	1C19002	EPA 8081B	03/23/21 13:53	JJB	
alpha-BHC [319-84-6]^	0.0012	U	mg/kg dry	2	0.0012	0.0035	1C19002	EPA 8081B	03/23/21 13:53	JJB	
beta-BHC [319-85-7]^	0.0025	U	mg/kg dry	2	0.0025	0.0035	1C19002	EPA 8081B	03/23/21 13:53	JJB	
Chlordane (tech) [12789-03-6]^	0.015	U	mg/kg dry	2	0.015	0.068	1C19002	EPA 8081B	03/23/21 13:53	JJB	
Chlordane-alpha [5103-71-9]^	0.0014	U	mg/kg dry	2	0.0014	0.0035	1C19002	EPA 8081B	03/23/21 13:53	JJB	
Chlordane-gamma [5103-74-2]^	0.0016	U	mg/kg dry	2	0.0016	0.0035	1C19002	EPA 8081B	03/23/21 13:53	JJB	
delta-BHC [319-86-8]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 13:53	JJB	
Dieldrin [60-57-1]^	0.00093	U	mg/kg dry	2	0.00093	0.0035	1C19002	EPA 8081B	03/23/21 13:53	JJB	
Endosulfan I [959-98-8]^	0.00083	U	mg/kg dry	2	0.00083	0.0035	1C19002	EPA 8081B	03/23/21 13:53	JJB	
Endosulfan II [33213-65-9]^	0.0018	U	mg/kg dry	2	0.0018	0.0035	1C19002	EPA 8081B	03/23/21 13:53	JJB	
Endosulfan sulfate [1031-07-8]^	0.0012	U	mg/kg dry	2	0.0012	0.0035	1C19002	EPA 8081B	03/23/21 13:53	JJB	
Endrin [72-20-8]^	0.0015	U	mg/kg dry	2	0.0015	0.0035	1C19002	EPA 8081B	03/23/21 13:53	JJB	
Endrin aldehyde [7421-93-4]^	0.0029	U	mg/kg dry	2	0.0029	0.0035	1C19002	EPA 8081B	03/23/21 13:53	JJB	
Endrin ketone [53494-70-5]^	0.0012	U	mg/kg dry	2	0.0012	0.0035	1C19002	EPA 8081B	03/23/21 13:53	JJB	
gamma-BHC [58-89-9]^	0.0012	U	mg/kg dry	2	0.0012	0.0035	1C19002	EPA 8081B	03/23/21 13:53	JJB	
Heptachlor [76-44-8]^	0.0014	U	mg/kg dry	2	0.0014	0.0035	1C19002	EPA 8081B	03/23/21 13:53	JJB	
Heptachlor epoxide [1024-57-3]^	0.0015	U	mg/kg dry	2	0.0015	0.0035	1C19002	EPA 8081B	03/23/21 13:53	JJB	
Isodrin [465-73-6]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 13:53	JJB	
Methoxychlor [72-43-5]^	0.0019	U	mg/kg dry	2	0.0019	0.0035	1C19002	EPA 8081B	03/23/21 13:53	JJB	
Mirex [2385-85-5]^	0.0023	U	mg/kg dry	2	0.0023	0.0035	1C19002	EPA 8081B	03/23/21 13:53	JJB	
Toxaphene [8001-35-2]^	0.035	U	mg/kg dry	2	0.035	0.068	1C19002	EPA 8081B	03/23/21 13:53	JJB	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.034*	*2*	*0.0348*	*98 %*	*20-137*	*1C19002*	*EPA 8081B*	*03/23/21 13:53*	*JJB*	
Decachlorobiphenyl	*0.030*	*2*	*0.0348*	*86 %*	*13-183*	*1C19002*	*EPA 8081B*	*03/23/21 13:53*	*JJB*	

ANALYTICAL RESULTS

Description: S3-0006 | **Lab Sample ID:** AE01807-13 | **Received:** 03/15/21 12:15

Matrix: Soil | **Sampled:** 03/15/21 09:40 | **Work Order:** AE01807

Project: Pelican Coast Soil and Groundwater Sampling | **Sampled By:** Brandon Selph | **% Solids:** 98.72

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8]^	0.0016	U	mg/kg dry	2	0.0016	0.0034	1C19002	EPA 8081B	03/23/21 14:05	JJB	
4,4'-DDE [72-55-9]^	0.0013	U	mg/kg dry	2	0.0013	0.0034	1C19002	EPA 8081B	03/23/21 14:05	JJB	
4,4'-DDT [50-29-3]^	0.0013	U	mg/kg dry	2	0.0013	0.0034	1C19002	EPA 8081B	03/23/21 14:05	JJB	
Aldrin [309-00-2]^	0.0010	U	mg/kg dry	2	0.0010	0.0034	1C19002	EPA 8081B	03/23/21 14:05	JJB	
alpha-BHC [319-84-6]^	0.0011	U	mg/kg dry	2	0.0011	0.0034	1C19002	EPA 8081B	03/23/21 14:05	JJB	
beta-BHC [319-85-7]^	0.0024	U	mg/kg dry	2	0.0024	0.0034	1C19002	EPA 8081B	03/23/21 14:05	JJB	
Chlordane (tech) [12789-03-6]^	0.015	U	mg/kg dry	2	0.015	0.067	1C19002	EPA 8081B	03/23/21 14:05	JJB	
Chlordane-alpha [5103-71-9]^	0.0013	U	mg/kg dry	2	0.0013	0.0034	1C19002	EPA 8081B	03/23/21 14:05	JJB	
Chlordane-gamma [5103-74-2]^	0.0016	U	mg/kg dry	2	0.0016	0.0034	1C19002	EPA 8081B	03/23/21 14:05	JJB	
delta-BHC [319-86-8]^	0.0013	U	mg/kg dry	2	0.0013	0.0034	1C19002	EPA 8081B	03/23/21 14:05	JJB	
Dieldrin [60-57-1]^	0.00091	U	mg/kg dry	2	0.00091	0.0034	1C19002	EPA 8081B	03/23/21 14:05	JJB	
Endosulfan I [959-98-8]^	0.00081	U	mg/kg dry	2	0.00081	0.0034	1C19002	EPA 8081B	03/23/21 14:05	JJB	
Endosulfan II [33213-65-9]^	0.0018	U	mg/kg dry	2	0.0018	0.0034	1C19002	EPA 8081B	03/23/21 14:05	JJB	
Endosulfan sulfate [1031-07-8]^	0.0012	U	mg/kg dry	2	0.0012	0.0034	1C19002	EPA 8081B	03/23/21 14:05	JJB	
Endrin [72-20-8]^	0.0015	U	mg/kg dry	2	0.0015	0.0034	1C19002	EPA 8081B	03/23/21 14:05	JJB	
Endrin aldehyde [7421-93-4]^	0.0028	U	mg/kg dry	2	0.0028	0.0034	1C19002	EPA 8081B	03/23/21 14:05	JJB	
Endrin ketone [53494-70-5]^	0.0012	U	mg/kg dry	2	0.0012	0.0034	1C19002	EPA 8081B	03/23/21 14:05	JJB	
gamma-BHC [58-89-9]^	0.0012	U	mg/kg dry	2	0.0012	0.0034	1C19002	EPA 8081B	03/23/21 14:05	JJB	
Heptachlor [76-44-8]^	0.0013	U	mg/kg dry	2	0.0013	0.0034	1C19002	EPA 8081B	03/23/21 14:05	JJB	
Heptachlor epoxide [1024-57-3]^	0.0015	U	mg/kg dry	2	0.0015	0.0034	1C19002	EPA 8081B	03/23/21 14:05	JJB	
Isodrin [465-73-6]^	0.0013	U	mg/kg dry	2	0.0013	0.0034	1C19002	EPA 8081B	03/23/21 14:05	JJB	
Methoxychlor [72-43-5]^	0.0019	U	mg/kg dry	2	0.0019	0.0034	1C19002	EPA 8081B	03/23/21 14:05	JJB	
Mirex [2385-85-5]^	0.0022	U	mg/kg dry	2	0.0022	0.0034	1C19002	EPA 8081B	03/23/21 14:05	JJB	
Toxaphene [8001-35-2]^	0.034	U	mg/kg dry	2	0.034	0.067	1C19002	EPA 8081B	03/23/21 14:05	JJB	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.023*	*2*	*0.0338*	*68 %*	*20-137*	*1C19002*	*EPA 8081B*	*03/23/21 14:05*	*JJB*	
Decachlorobiphenyl	*0.025*	*2*	*0.0338*	*74 %*	*13-183*	*1C19002*	*EPA 8081B*	*03/23/21 14:05*	*JJB*	

ANALYTICAL RESULTS

Description: S3-0618
Matrix: Soil
Project: Pelican Coast Soil and Groundwater Sampling

Lab Sample ID: AE01807-14
Sampled: 03/15/21 09:45
Sampled By: Brandon Selph

Received: 03/15/21 12:15
Work Order: AE01807
% Solids: 96.58

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8]^	0.0017	U	mg/kg dry	2	0.0017	0.0035	1C19002	EPA 8081B	03/23/21 14:18	JJB	
4,4'-DDE [72-55-9]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 14:18	JJB	
4,4'-DDT [50-29-3]^	0.0014	U	mg/kg dry	2	0.0014	0.0035	1C19002	EPA 8081B	03/23/21 14:18	JJB	
Aldrin [309-00-2]^	0.0011	U	mg/kg dry	2	0.0011	0.0035	1C19002	EPA 8081B	03/23/21 14:18	JJB	
alpha-BHC [319-84-6]^	0.0012	U	mg/kg dry	2	0.0012	0.0035	1C19002	EPA 8081B	03/23/21 14:18	JJB	
beta-BHC [319-85-7]^	0.0025	U	mg/kg dry	2	0.0025	0.0035	1C19002	EPA 8081B	03/23/21 14:18	JJB	
Chlordane (tech) [12789-03-6]^	0.015	U	mg/kg dry	2	0.015	0.068	1C19002	EPA 8081B	03/23/21 14:18	JJB	
Chlordane-alpha [5103-71-9]^	0.0014	U	mg/kg dry	2	0.0014	0.0035	1C19002	EPA 8081B	03/23/21 14:18	JJB	
Chlordane-gamma [5103-74-2]^	0.0016	U	mg/kg dry	2	0.0016	0.0035	1C19002	EPA 8081B	03/23/21 14:18	JJB	
delta-BHC [319-86-8]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 14:18	JJB	
Dieldrin [60-57-1]^	0.00093	U	mg/kg dry	2	0.00093	0.0035	1C19002	EPA 8081B	03/23/21 14:18	JJB	
Endosulfan I [959-98-8]^	0.00083	U	mg/kg dry	2	0.00083	0.0035	1C19002	EPA 8081B	03/23/21 14:18	JJB	
Endosulfan II [33213-65-9]^	0.0018	U	mg/kg dry	2	0.0018	0.0035	1C19002	EPA 8081B	03/23/21 14:18	JJB	
Endosulfan sulfate [1031-07-8]^	0.0012	U	mg/kg dry	2	0.0012	0.0035	1C19002	EPA 8081B	03/23/21 14:18	JJB	
Endrin [72-20-8]^	0.0015	U	mg/kg dry	2	0.0015	0.0035	1C19002	EPA 8081B	03/23/21 14:18	JJB	
Endrin aldehyde [7421-93-4]^	0.0029	U	mg/kg dry	2	0.0029	0.0035	1C19002	EPA 8081B	03/23/21 14:18	JJB	
Endrin ketone [53494-70-5]^	0.0012	U	mg/kg dry	2	0.0012	0.0035	1C19002	EPA 8081B	03/23/21 14:18	JJB	
gamma-BHC [58-89-9]^	0.0012	U	mg/kg dry	2	0.0012	0.0035	1C19002	EPA 8081B	03/23/21 14:18	JJB	
Heptachlor [76-44-8]^	0.0014	U	mg/kg dry	2	0.0014	0.0035	1C19002	EPA 8081B	03/23/21 14:18	JJB	
Heptachlor epoxide [1024-57-3]^	0.0015	U	mg/kg dry	2	0.0015	0.0035	1C19002	EPA 8081B	03/23/21 14:18	JJB	
Isodrin [465-73-6]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 14:18	JJB	
Methoxychlor [72-43-5]^	0.0019	U	mg/kg dry	2	0.0019	0.0035	1C19002	EPA 8081B	03/23/21 14:18	JJB	
Mirex [2385-85-5]^	0.0023	U	mg/kg dry	2	0.0023	0.0035	1C19002	EPA 8081B	03/23/21 14:18	JJB	
Toxaphene [8001-35-2]^	0.035	U	mg/kg dry	2	0.035	0.068	1C19002	EPA 8081B	03/23/21 14:18	JJB	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.025*	*2*	*0.0343*	*72 %*	*20-137*	*1C19002*	*EPA 8081B*	*03/23/21 14:18*	*JJB*	
Decachlorobiphenyl	*0.027*	*2*	*0.0343*	*78 %*	*13-183*	*1C19002*	*EPA 8081B*	*03/23/21 14:18*	*JJB*	

ANALYTICAL RESULTS

Description: S2-0006 | **Lab Sample ID:** AE01807-15 | **Received:** 03/15/21 12:15

Matrix: Soil | **Sampled:** 03/15/21 09:50 | **Work Order:** AE01807

Project: Pelican Coast Soil and Groundwater Sampling | **Sampled By:** Brandon Selph | **% Solids:** 97.52

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8]^	0.0016	U	mg/kg dry	2	0.0016	0.0035	1C19002	EPA 8081B	03/23/21 14:30	JJB	
4,4'-DDE [72-55-9]^	**0.0020**	I	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 14:30	JJB	
4,4'-DDT [50-29-3]^	0.0014	U	mg/kg dry	2	0.0014	0.0035	1C19002	EPA 8081B	03/23/21 14:30	JJB	
Aldrin [309-00-2]^	0.0010	U	mg/kg dry	2	0.0010	0.0035	1C19002	EPA 8081B	03/23/21 14:30	JJB	
alpha-BHC [319-84-6]^	0.0011	U	mg/kg dry	2	0.0011	0.0035	1C19002	EPA 8081B	03/23/21 14:30	JJB	
beta-BHC [319-85-7]^	0.0025	U	mg/kg dry	2	0.0025	0.0035	1C19002	EPA 8081B	03/23/21 14:30	JJB	
Chlordane (tech) [12789-03-6]^	0.015	U	mg/kg dry	2	0.015	0.068	1C19002	EPA 8081B	03/23/21 14:30	JJB	
Chlordane-alpha [5103-71-9]^	0.0014	U	mg/kg dry	2	0.0014	0.0035	1C19002	EPA 8081B	03/23/21 14:30	JJB	
Chlordane-gamma [5103-74-2]^	0.0016	U	mg/kg dry	2	0.0016	0.0035	1C19002	EPA 8081B	03/23/21 14:30	JJB	
delta-BHC [319-86-8]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 14:30	JJB	
Dieldrin [60-57-1]^	0.00092	U	mg/kg dry	2	0.00092	0.0035	1C19002	EPA 8081B	03/23/21 14:30	JJB	
Endosulfan I [959-98-8]^	0.00082	U	mg/kg dry	2	0.00082	0.0035	1C19002	EPA 8081B	03/23/21 14:30	JJB	
Endosulfan II [33213-65-9]^	0.0018	U	mg/kg dry	2	0.0018	0.0035	1C19002	EPA 8081B	03/23/21 14:30	JJB	
Endosulfan sulfate [1031-07-8]^	0.0012	U	mg/kg dry	2	0.0012	0.0035	1C19002	EPA 8081B	03/23/21 14:30	JJB	
Endrin [72-20-8]^	0.0015	U	mg/kg dry	2	0.0015	0.0035	1C19002	EPA 8081B	03/23/21 14:30	JJB	
Endrin aldehyde [7421-93-4]^	0.0029	U	mg/kg dry	2	0.0029	0.0035	1C19002	EPA 8081B	03/23/21 14:30	JJB	
Endrin ketone [53494-70-5]^	0.0012	U	mg/kg dry	2	0.0012	0.0035	1C19002	EPA 8081B	03/23/21 14:30	JJB	
gamma-BHC [58-89-9]^	0.0012	U	mg/kg dry	2	0.0012	0.0035	1C19002	EPA 8081B	03/23/21 14:30	JJB	
Heptachlor [76-44-8]^	0.0014	U	mg/kg dry	2	0.0014	0.0035	1C19002	EPA 8081B	03/23/21 14:30	JJB	
Heptachlor epoxide [1024-57-3]^	0.0015	U	mg/kg dry	2	0.0015	0.0035	1C19002	EPA 8081B	03/23/21 14:30	JJB	
Isodrin [465-73-6]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 14:30	JJB	
Methoxychlor [72-43-5]^	0.0019	U	mg/kg dry	2	0.0019	0.0035	1C19002	EPA 8081B	03/23/21 14:30	JJB	
Mirex [2385-85-5]^	0.0023	U	mg/kg dry	2	0.0023	0.0035	1C19002	EPA 8081B	03/23/21 14:30	JJB	
Toxaphene [8001-35-2]^	0.035	U	mg/kg dry	2	0.035	0.068	1C19002	EPA 8081B	03/23/21 14:30	JJB	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.024*	*2*	*0.0338*	*70 %*	*20-137*	*1C19002*	*EPA 8081B*	*03/23/21 14:30*	*JJB*	
Decachlorobiphenyl	*0.028*	*2*	*0.0338*	*84 %*	*13-183*	*1C19002*	*EPA 8081B*	*03/23/21 14:30*	*JJB*	

ANALYTICAL RESULTS

Description: S2-0618 | **Lab Sample ID:** AE01807-16 | **Received:** 03/15/21 12:15

Matrix: Soil | **Sampled:** 03/15/21 09:55 | **Work Order:** AE01807

Project: Pelican Coast Soil and Groundwater Sampling | **Sampled By:** Brandon Selph | **% Solids:** 97.85

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8]^	0.0016	U	mg/kg dry	2	0.0016	0.0035	1C19002	EPA 8081B	03/23/21 14:43	JJB	
4,4'-DDE [72-55-9]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 14:43	JJB	
4,4'-DDT [50-29-3]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 14:43	JJB	
Aldrin [309-00-2]^	0.0010	U	mg/kg dry	2	0.0010	0.0035	1C19002	EPA 8081B	03/23/21 14:43	JJB	
alpha-BHC [319-84-6]^	0.0011	U	mg/kg dry	2	0.0011	0.0035	1C19002	EPA 8081B	03/23/21 14:43	JJB	
beta-BHC [319-85-7]^	0.0025	U	mg/kg dry	2	0.0025	0.0035	1C19002	EPA 8081B	03/23/21 14:43	JJB	
Chlordane (tech) [12789-03-6]^	0.015	U	mg/kg dry	2	0.015	0.067	1C19002	EPA 8081B	03/23/21 14:43	JJB	
Chlordane-alpha [5103-71-9]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 14:43	JJB	
Chlordane-gamma [5103-74-2]^	0.0016	U	mg/kg dry	2	0.0016	0.0035	1C19002	EPA 8081B	03/23/21 14:43	JJB	
delta-BHC [319-86-8]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 14:43	JJB	
Dieldrin [60-57-1]^	0.00092	U	mg/kg dry	2	0.00092	0.0035	1C19002	EPA 8081B	03/23/21 14:43	JJB	
Endosulfan I [959-98-8]^	0.00082	U	mg/kg dry	2	0.00082	0.0035	1C19002	EPA 8081B	03/23/21 14:43	JJB	
Endosulfan II [33213-65-9]^	0.0018	U	mg/kg dry	2	0.0018	0.0035	1C19002	EPA 8081B	03/23/21 14:43	JJB	
Endosulfan sulfate [1031-07-8]^	0.0012	U	mg/kg dry	2	0.0012	0.0035	1C19002	EPA 8081B	03/23/21 14:43	JJB	
Endrin [72-20-8]^	0.0015	U	mg/kg dry	2	0.0015	0.0035	1C19002	EPA 8081B	03/23/21 14:43	JJB	
Endrin aldehyde [7421-93-4]^	0.0029	U	mg/kg dry	2	0.0029	0.0035	1C19002	EPA 8081B	03/23/21 14:43	JJB	
Endrin ketone [53494-70-5]^	0.0012	U	mg/kg dry	2	0.0012	0.0035	1C19002	EPA 8081B	03/23/21 14:43	JJB	
gamma-BHC [58-89-9]^	0.0012	U	mg/kg dry	2	0.0012	0.0035	1C19002	EPA 8081B	03/23/21 14:43	JJB	
Heptachlor [76-44-8]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 14:43	JJB	
Heptachlor epoxide [1024-57-3]^	0.0015	U	mg/kg dry	2	0.0015	0.0035	1C19002	EPA 8081B	03/23/21 14:43	JJB	
Isodrin [465-73-6]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 14:43	JJB	
Methoxychlor [72-43-5]^	0.0019	U	mg/kg dry	2	0.0019	0.0035	1C19002	EPA 8081B	03/23/21 14:43	JJB	
Mirex [2385-85-5]^	0.0022	U	mg/kg dry	2	0.0022	0.0035	1C19002	EPA 8081B	03/23/21 14:43	JJB	
Toxaphene [8001-35-2]^	0.035	U	mg/kg dry	2	0.035	0.067	1C19002	EPA 8081B	03/23/21 14:43	JJB	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.020*	*2*	*0.0344*	*58 %*	*20-137*	*1C19002*	*EPA 8081B*	*03/23/21 14:43*	*JJB*	
Decachlorobiphenyl	*0.022*	*2*	*0.0344*	*64 %*	*13-183*	*1C19002*	*EPA 8081B*	*03/23/21 14:43*	*JJB*	

ANALYTICAL RESULTS

Description: S1-0006 | **Lab Sample ID:** AE01807-17 | **Received:** 03/15/21 12:15
Matrix: Soil | **Sampled:** 03/15/21 10:00 | **Work Order:** AE01807
Project: Pelican Coast Soil and Groundwater Sampling | **Sampled By:** Brandon Selph | **% Solids:** 98.94

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8]^	0.0016	U	mg/kg dry	2	0.0016	0.0034	1C19002	EPA 8081B	03/23/21 14:55	JJB	
4,4'-DDE [72-55-9]^	0.0013	U	mg/kg dry	2	0.0013	0.0034	1C19002	EPA 8081B	03/23/21 14:55	JJB	
4,4'-DDT [50-29-3]^	0.0013	U	mg/kg dry	2	0.0013	0.0034	1C19002	EPA 8081B	03/23/21 14:55	JJB	
Aldrin [309-00-2]^	0.0010	U	mg/kg dry	2	0.0010	0.0034	1C19002	EPA 8081B	03/23/21 14:55	JJB	
alpha-BHC [319-84-6]^	0.0011	U	mg/kg dry	2	0.0011	0.0034	1C19002	EPA 8081B	03/23/21 14:55	JJB	
beta-BHC [319-85-7]^	0.0024	U	mg/kg dry	2	0.0024	0.0034	1C19002	EPA 8081B	03/23/21 14:55	JJB	
Chlordane (tech) [12789-03-6]^	0.015	U	mg/kg dry	2	0.015	0.067	1C19002	EPA 8081B	03/23/21 14:55	JJB	
Chlordane-alpha [5103-71-9]^	0.0013	U	mg/kg dry	2	0.0013	0.0034	1C19002	EPA 8081B	03/23/21 14:55	JJB	
Chlordane-gamma [5103-74-2]^	0.0016	U	mg/kg dry	2	0.0016	0.0034	1C19002	EPA 8081B	03/23/21 14:55	JJB	
delta-BHC [319-86-8]^	0.0013	U	mg/kg dry	2	0.0013	0.0034	1C19002	EPA 8081B	03/23/21 14:55	JJB	
Dieldrin [60-57-1]^	0.00091	U	mg/kg dry	2	0.00091	0.0034	1C19002	EPA 8081B	03/23/21 14:55	JJB	
Endosulfan I [959-98-8]^	0.00081	U	mg/kg dry	2	0.00081	0.0034	1C19002	EPA 8081B	03/23/21 14:55	JJB	
Endosulfan II [33213-65-9]^	0.0018	U	mg/kg dry	2	0.0018	0.0034	1C19002	EPA 8081B	03/23/21 14:55	JJB	
Endosulfan sulfate [1031-07-8]^	0.0012	U	mg/kg dry	2	0.0012	0.0034	1C19002	EPA 8081B	03/23/21 14:55	JJB	
Endrin [72-20-8]^	0.0015	U	mg/kg dry	2	0.0015	0.0034	1C19002	EPA 8081B	03/23/21 14:55	JJB	
Endrin aldehyde [7421-93-4]^	0.0028	U	mg/kg dry	2	0.0028	0.0034	1C19002	EPA 8081B	03/23/21 14:55	JJB	
Endrin ketone [53494-70-5]^	0.0012	U	mg/kg dry	2	0.0012	0.0034	1C19002	EPA 8081B	03/23/21 14:55	JJB	
gamma-BHC [58-89-9]^	0.0012	U	mg/kg dry	2	0.0012	0.0034	1C19002	EPA 8081B	03/23/21 14:55	JJB	
Heptachlor [76-44-8]^	0.0013	U	mg/kg dry	2	0.0013	0.0034	1C19002	EPA 8081B	03/23/21 14:55	JJB	
Heptachlor epoxide [1024-57-3]^	0.0015	U	mg/kg dry	2	0.0015	0.0034	1C19002	EPA 8081B	03/23/21 14:55	JJB	
Isodrin [465-73-6]^	0.0013	U	mg/kg dry	2	0.0013	0.0034	1C19002	EPA 8081B	03/23/21 14:55	JJB	
Methoxychlor [72-43-5]^	0.0019	U	mg/kg dry	2	0.0019	0.0034	1C19002	EPA 8081B	03/23/21 14:55	JJB	
Mirex [2385-85-5]^	0.0022	U	mg/kg dry	2	0.0022	0.0034	1C19002	EPA 8081B	03/23/21 14:55	JJB	
Toxaphene [8001-35-2]^	0.034	U	mg/kg dry	2	0.034	0.067	1C19002	EPA 8081B	03/23/21 14:55	JJB	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.027*	*2*	*0.0335*	*80 %*	*20-137*	*1C19002*	*EPA 8081B*	*03/23/21 14:55*	*JJB*	
Decachlorobiphenyl	*0.025*	*2*	*0.0335*	*76 %*	*13-183*	*1C19002*	*EPA 8081B*	*03/23/21 14:55*	*JJB*	

ANALYTICAL RESULTS

Description: S1-0618 | **Lab Sample ID:** AE01807-18 | **Received:** 03/15/21 12:15
Matrix: Soil | **Sampled:** 03/15/21 10:05 | **Work Order:** AE01807
Project: Pelican Coast Soil and Groundwater Sampling | **Sampled By:** Brandon Selph | **% Solids:** 97.84

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8]^	0.0016	U	mg/kg dry	2	0.0016	0.0035	1C19002	EPA 8081B	03/23/21 15:07	JJB	
4,4'-DDE [72-55-9]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 15:07	JJB	
4,4'-DDT [50-29-3]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 15:07	JJB	
Aldrin [309-00-2]^	0.0010	U	mg/kg dry	2	0.0010	0.0035	1C19002	EPA 8081B	03/23/21 15:07	JJB	
alpha-BHC [319-84-6]^	0.0011	U	mg/kg dry	2	0.0011	0.0035	1C19002	EPA 8081B	03/23/21 15:07	JJB	
beta-BHC [319-85-7]^	0.0025	U	mg/kg dry	2	0.0025	0.0035	1C19002	EPA 8081B	03/23/21 15:07	JJB	
Chlordane (tech) [12789-03-6]^	0.015	U	mg/kg dry	2	0.015	0.067	1C19002	EPA 8081B	03/23/21 15:07	JJB	
Chlordane-alpha [5103-71-9]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 15:07	JJB	
Chlordane-gamma [5103-74-2]^	0.0016	U	mg/kg dry	2	0.0016	0.0035	1C19002	EPA 8081B	03/23/21 15:07	JJB	
delta-BHC [319-86-8]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 15:07	JJB	
Dieldrin [60-57-1]^	0.00092	U	mg/kg dry	2	0.00092	0.0035	1C19002	EPA 8081B	03/23/21 15:07	JJB	
Endosulfan I [959-98-8]^	0.00082	U	mg/kg dry	2	0.00082	0.0035	1C19002	EPA 8081B	03/23/21 15:07	JJB	
Endosulfan II [33213-65-9]^	0.0018	U	mg/kg dry	2	0.0018	0.0035	1C19002	EPA 8081B	03/23/21 15:07	JJB	
Endosulfan sulfate [1031-07-8]^	0.0012	U	mg/kg dry	2	0.0012	0.0035	1C19002	EPA 8081B	03/23/21 15:07	JJB	
Endrin [72-20-8]^	0.0015	U	mg/kg dry	2	0.0015	0.0035	1C19002	EPA 8081B	03/23/21 15:07	JJB	
Endrin aldehyde [7421-93-4]^	0.0029	U	mg/kg dry	2	0.0029	0.0035	1C19002	EPA 8081B	03/23/21 15:07	JJB	
Endrin ketone [53494-70-5]^	0.0012	U	mg/kg dry	2	0.0012	0.0035	1C19002	EPA 8081B	03/23/21 15:07	JJB	
gamma-BHC [58-89-9]^	0.0012	U	mg/kg dry	2	0.0012	0.0035	1C19002	EPA 8081B	03/23/21 15:07	JJB	
Heptachlor [76-44-8]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 15:07	JJB	
Heptachlor epoxide [1024-57-3]^	0.0015	U	mg/kg dry	2	0.0015	0.0035	1C19002	EPA 8081B	03/23/21 15:07	JJB	
Isodrin [465-73-6]^	0.0013	U	mg/kg dry	2	0.0013	0.0035	1C19002	EPA 8081B	03/23/21 15:07	JJB	
Methoxychlor [72-43-5]^	0.0019	U	mg/kg dry	2	0.0019	0.0035	1C19002	EPA 8081B	03/23/21 15:07	JJB	
Mirex [2385-85-5]^	0.0022	U	mg/kg dry	2	0.0022	0.0035	1C19002	EPA 8081B	03/23/21 15:07	JJB	
Toxaphene [8001-35-2]^	0.035	U	mg/kg dry	2	0.035	0.067	1C19002	EPA 8081B	03/23/21 15:07	JJB	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.022*	*2*	*0.0338*	*64 %*	*20-137*	*1C19002*	*EPA 8081B*	*03/23/21 15:07*	*JJB*	
Decachlorobiphenyl	*0.025*	*2*	*0.0338*	*74 %*	*13-183*	*1C19002*	*EPA 8081B*	*03/23/21 15:07*	*JJB*	

QUALITY CONTROL DATA

Organochlorine Pesticides by GC - Quality Control

Batch 1C19002 - SOP EXSV-33

Blank (1C19002-BLK1) Prepared: 03/19/2021 08:40 Analyzed: 03/23/2021 10:43

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.00080	U	0.0017	mg/kg wet							
4,4'-DDE	0.00065	U	0.0017	mg/kg wet							
4,4'-DDT	0.00066	U	0.0017	mg/kg wet							
Aldrin	0.00051	U	0.0017	mg/kg wet							
alpha-BHC	0.00056	U	0.0017	mg/kg wet							
beta-BHC	0.0012	U	0.0017	mg/kg wet							
Chlordane (tech)	0.0072	U	0.033	mg/kg wet							
Chlordane-alpha	0.00066	U	0.0017	mg/kg wet							
Chlordane-gamma	0.00077	U	0.0017	mg/kg wet							
delta-BHC	0.00062	U	0.0017	mg/kg wet							
Dieldrin	0.00045	U	0.0017	mg/kg wet							
Endosulfan I	0.00040	U	0.0017	mg/kg wet							
Endosulfan II	0.00087	U	0.0017	mg/kg wet							
Endosulfan sulfate	0.00060	U	0.0017	mg/kg wet							
Endrin	0.00074	U	0.0017	mg/kg wet							
Endrin aldehyde	0.0014	U	0.0017	mg/kg wet							
Endrin ketone	0.00060	U	0.0017	mg/kg wet							
gamma-BHC	0.00060	U	0.0017	mg/kg wet							
Heptachlor	0.00066	U	0.0017	mg/kg wet							
Heptachlor epoxide	0.00074	U	0.0017	mg/kg wet							
Isodrin	0.00062	U	0.0017	mg/kg wet							
Methoxychlor	0.00094	U	0.0017	mg/kg wet							
Mirex	0.0011	U	0.0017	mg/kg wet							
Toxaphene	0.017	U	0.033	mg/kg wet							
2,4,5,6-TCMX	*0.028*			*mg/kg wet*	*0.0333*		*83*	*20-137*			
Decachlorobiphenyl	*0.026*			*mg/kg wet*	*0.0333*		*79*	*13-183*			

LCS (1C19002-BS1) Prepared: 03/19/2021 08:40 Analyzed: 03/23/2021 10:55

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	0.028		0.0017	mg/kg wet	0.0333		85	37-125			
Dieldrin	0.031		0.0017	mg/kg wet	0.0333		92	46-127			
Endrin	0.025		0.0017	mg/kg wet	0.0333		75	28-143			
2,4,5,6-TCMX	*0.027*			*mg/kg wet*	*0.0333*		*81*	*20-137*			
Decachlorobiphenyl	*0.032*			*mg/kg wet*	*0.0333*		*96*	*13-183*			

Matrix Spike (1C19002-MS1) Prepared: 03/19/2021 08:40 Analyzed: 03/23/2021 11:08

Source: AE01807-09

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	0.037		0.0034	mg/kg dry	0.0333	0.0040	100	37-125			
Dieldrin	0.026		0.0034	mg/kg dry	0.0333	0.00090 U	78	46-127			
Endrin	0.027		0.0034	mg/kg dry	0.0333	0.0015 U	80	28-143			
2,4,5,6-TCMX	*0.021*			*mg/kg dry*	*0.0333*		*64*	*20-137*			
Decachlorobiphenyl	*0.024*			*mg/kg dry*	*0.0333*		*72*	*13-183*			

QUALITY CONTROL DATA

Organochlorine Pesticides by GC - Quality Control

Batch 1C19002 - SOP EXSV-33 - Continued

Matrix Spike Dup (1C19002-MSD1) Prepared: 03/19/2021 08:40 Analyzed: 03/23/2021 11:21

Source: AE01807-09

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	0.043		0.0034	mg/kg dry	0.0335	0.0040	116	37-125	14	24	
Dieldrin	0.030		0.0034	mg/kg dry	0.0335	0.00090 U	90	46-127	15	21	
Endrin	0.032		0.0034	mg/kg dry	0.0335	0.0015 U	94	28-143	17	22	
2,4,5,6-TCMX	*0.021*			*mg/kg dry*	*0.0335*		*62*	*20-137*			
Decachlorobiphenyl	*0.028*			*mg/kg dry*	*0.0335*		*84*	*13-183*			

FLAGS/NOTES AND DEFINITIONS

PQL	PQL: Practical Quantitation Limit. The PQL presented is the laboratory MRL.
B	Results are based upon membrane filter colony counts that are outside the method indicated ideal range.
I	The reported value is between the laboratory method detection limit (MDL) and the practical quantitation limit (PQL).
J	Estimated value.
K	Off-scale low; Actual value is known to be less than the value given.
L	Off-scale high; Actual value is known to be greater than value given.
M	Presence of analyte is verified but not quantified; the actual value is less than the MRL but greater than the MDL.
N	Presumptive evidence of presence of material.
O	Sampled, but analysis lost or not performed.
Q	Sample exceeded the accepted holding time.
T	Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only and shall not be used in statistical analysis.
U	Indicates that the compound was analyzed for but not detected.
V	Indicates that the analyte was detected in both the sample and the associated method blank.
Y	The laboratory analysis was from an improperly preserved sample. The data may not be accurate.
Z	Too many colonies were present (TNTC); the numeric value represents the filtration volume.
?	Data are rejected and should not be used. Some or all of the quality control data for the analyte were outside criteria, and the presence or absence of the analyte cannot be determined from the data.
*	Not reported due to interference.
[CALC]	Calculated analyte - MDL/MRL reported to the highest reporting limit of the component analyses.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

www.encolabs.com

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314

4810 Executive Park Court, Suite 111
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Page 1 of 2

Client Name: Universal Engineering Sciences ENV (UN004)	Project Number: 0340.2100012.0000
Address: 820 Brevard Ave.	Project Name/Desc: Pelican Coast Soil and Groundwater Sampling
City/ST/Zip: Rockledge, FL 32955	PO # / Billing Info:
Tel: (321) 638-0808 Fax: (321) 638-0978	Reporting Contact: Teresa Hardy
Sampler(s) Name, Affiliation (Print): Brandon Selph	Billing Contact: Teresa Hardy
Sampler(s) Signature: Brandon Selph	Site Location / Time Zone:

Requested Analyses

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due ___/___/___

Lab Workorder: AE01807

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	Preservation (See Codes) (Combine as necessary) 8260D	8081B	Sample Comments
	S8-0006	3/15/21	820	G	S	1	X	X	
	S8-0618	3/15/21	0830	G	S	1	X	X	
	S6-0006	3/15/21	0840	G	S	1	X	X	
	S6-0618	3/15/21	0845	G	S	1	X	X	
	S7-0006	3/15/21	0850	G	S	1	X	X	
	S7-0618	3/15/21	0855	G	S	1	X	X	
	S9-0006	3/15/21	0900	G	S	1	X	X	
	S9-0618	3/15/21	0905	G	S	1	X	X	
	S4-0006	3/15/21	0915	G	S	1		X	
	S4-0618	3/15/21	0920	G	S	1		X	
	S5-0006	3/15/21	0930	G	S	1		X	
	S5-0618	3/15/21	0935	G	S	1		X	

<-- Total # of Containers

Sample Kit Prepared By: CP	Date/Time: 3/5/21 13:50	Relinquished By: Charlene S. Pasipanki	Date/Time: 3/5/21 13:50	Received By:	Date/Time:
Comments/Special Reporting Requirements:		Relinquished By: Brandon Selph	Date/Time: 3/15/21 12:15	Received By:	Date/Time: 3/15/21 1215
		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Cooler #'s & Temps on Receipt: Med-330 2.4°C		Condition Upon Receipt: ✓ Acceptable ___ Unacceptable	

Matrix : **GW**-Groundwater **SO**-Soil **DW**-Drinking Water **SE**-Sediment **SW**-Surface Water **WW**-Wastewater **A**-Air **O**-Other (detail in comments)

Preservation: **I**-Ice **H**-HCl **N**-HNO3 **S**-H2SO4 **NO**-NaOH **O**-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314

4810 Executive Park Court, Suite 111
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

www.encolabs.com

Client Name	Project Number
Universal Engineering Sciences ENV (UN004)	0340.2100012.0000
Address	**Project Name/Desc**
820 Brevard Ave.	Pelican Coast Soil and Groundwater Sampling
City/ST/Zip	**PO # / Billing Info**
Rockledge, FL 32955	
Tel / **Fax**	**Reporting Contact**
(321) 638-0808 / (321) 638-0978	Teresa Hardy
Sampler(s) Name, Affiliation (Print)	**Billing Contact**
Brandon Sala	Teresa Hardy
Sampler(s) Signature	**Site Location / Time Zone**

Requested Analyses

8260B (14)	8081B								

Preservation (See Codes) (Combine as necessary)

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due ___/___/___

Lab Workorder

AE01807

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers										Sample Comments
	S3-0006	3/15/21	0940	G	S	1		X								
	S3-0618	3/15/21	0945	G	S	1		X								
	S2-0006	3/15/21	0950	G	S	1		X								
	S2-0618	3/15/21	0955	G	S	1		X								
	S1-0006	3/15/21	1000	G	S	1		X								
	S1-0618	3/15/21	1005	G	S	1		X								

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
CP	3/5/21 13:50	Caelene S. Pasipanki	3/5/21 13:50		
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Brandon Sala	3/15/21 12:15	[illegible]	3/15/21 1213
		Relinquished By	Date/Time	Received By	Date/Time

Cooler #'s & Temps on Receipt: Mid-330 2.4°C

Condition Upon Receipt: ✓ Acceptable ___ Unacceptable

Matrix : **GW**-Groundwater **SO**-Soil **DW**-Drinking Water **SE**-Sediment **SW**-Surface Water **WW**-Wastewater **A**-Air **O**-Other (detail in comments)

Preservation: **I**-Ice **H**-HCl **N**-HNO3 **S**-H2SO4 **NO**-NaOH **O**-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

ENCO Laboratories

Accurate. Timely. Responsive. Innovative.

10775 Central Port Drive
Orlando FL, 32824
Phone: 407.826.5314 FAX: 407.850.6945

Thursday, March 25, 2021
Universal Engineering Sciences ENV (UN004)
Attn: Teresa Hardy
820 Brevard Ave.
Rockledge, FL 32955

RE: Laboratory Results for
Project Number: 0340.2100012.0000, Project Name/Desc: Pelican Coast Soil and Groundwater Sampling
ENCO Workorder(s): AE02130

Dear Teresa Hardy,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Wednesday, March 17, 2021.

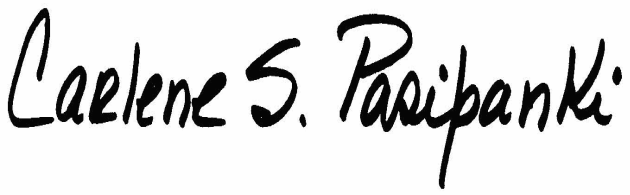
Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative if applicable. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Orlando. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,



Carlene S Pasipanki

Project Manager

Enclosure(s)

www.encolabs.com

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: GW1 **Lab ID: AE02130-01** **Sampled: 03/16/21 10:01** **Received: 03/17/21 11:00**

Parameter	Preparation	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	EPA 3510C	03/23/21	04/27/21	03/18/21	08:00	03/23/21 15:45
EPA 8260D	EPA 5030B_MS	03/30/21		03/19/21	00:00	03/19/21 18:24

Client ID: GW2 **Lab ID: AE02130-02** **Sampled: 03/16/21 10:49** **Received: 03/17/21 11:00**

Parameter	Preparation	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	EPA 3510C	03/23/21	04/27/21	03/18/21	08:00	03/23/21 15:57
EPA 8260D	EPA 5030B_MS	03/30/21		03/19/21	00:00	03/19/21 19:21

Client ID: Field Blank **Lab ID: AE02130-03** **Sampled: 03/16/21 11:26** **Received: 03/17/21 11:00**

Parameter	Preparation	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	EPA 3510C	03/23/21	04/27/21	03/18/21	08:00	03/23/21 16:09
EPA 8260D	EPA 5030B_MS	03/30/21		03/22/21	10:29	03/22/21 16:54

Client ID: GW-3 **Lab ID: AE02130-04** **Sampled: 03/16/21 11:48** **Received: 03/17/21 11:00**

Parameter	Preparation	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	EPA 3510C	03/23/21	04/27/21	03/18/21	08:00	03/23/21 16:22
EPA 8260D	EPA 5030B_MS	03/30/21		03/22/21	10:29	03/22/21 16:25

Client ID: GW-4 **Lab ID: AE02130-05** **Sampled: 03/16/21 12:44** **Received: 03/17/21 11:00**

Parameter	Preparation	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	EPA 3510C	03/23/21	04/27/21	03/18/21	08:00	03/23/21 16:34
EPA 8260D	EPA 5030B_MS	03/30/21		03/22/21	10:29	03/22/21 17:22

Client ID: GW-5 **Lab ID: AE02130-06** **Sampled: 03/16/21 13:36** **Received: 03/17/21 11:00**

Parameter	Preparation	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	EPA 3510C	03/23/21	04/27/21	03/18/21	08:00	03/23/21 16:47
EPA 8260D	EPA 5030B_MS	03/30/21		03/22/21	10:29	03/22/21 17:51

Client ID: GW6 **Lab ID: AE02130-07** **Sampled: 03/16/21 14:23** **Received: 03/17/21 11:00**

Parameter	Preparation	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	EPA 3510C	03/23/21	04/27/21	03/18/21	08:00	03/23/21 16:59
EPA 8260D	EPA 5030B_MS	03/30/21		03/22/21	10:29	03/22/21 18:19

Client ID: GW-7 **Lab ID: AE02130-08** **Sampled: 03/16/21 15:49** **Received: 03/17/21 11:00**

Parameter	Preparation	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	EPA 3510C	03/23/21	04/27/21	03/18/21	08:00	03/23/21 17:11
EPA 8260D	EPA 5030B_MS	03/30/21		03/22/21	10:29	03/22/21 18:48

Client ID: GW-8 **Lab ID: AE02130-09** **Sampled: 03/16/21 15:16** **Received: 03/17/21 11:00**

Parameter	Preparation	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8081B	EPA 3510C	03/23/21	04/27/21	03/18/21	08:00	03/23/21 17:24
EPA 8260D	EPA 5030B_MS	03/30/21		03/22/21	10:29	03/22/21 19:17

SAMPLE DETECTION SUMMARY

Client ID: GW1 **Lab ID:** AE02130-01

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
4-Isopropyltoluene	5.5		0.80	1.0	ug/L	EPA 8260D	

Client ID: GW2 **Lab ID:** AE02130-02

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
4-Isopropyltoluene	1.4		0.80	1.0	ug/L	EPA 8260D	

ANALYTICAL RESULTS

Description: GW1 **Lab Sample ID:** AE02130-01 **Received:** 03/17/21 11:00

Matrix: Ground Water **Sampled:** 03/16/21 10:01 **Work Order:** AE02130

Project: Pelican Coast Soil and Groundwater Sampling **Sampled By:** Brandon Selph

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.61	U	ug/L	1	0.61	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
1,1,1-Trichloroethane [71-55-6]^	0.80	U	ug/L	1	0.80	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
1,1,2,2-Tetrachloroethane [79-34-5]^	0.54	U	ug/L	1	0.54	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
1,1,2-Trichloroethane [79-00-5]^	0.76	U	ug/L	1	0.76	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
1,1-Dichloroethane [75-34-3]^	0.62	U	ug/L	1	0.62	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
1,1-Dichloroethene [75-35-4]^	0.94	U	ug/L	1	0.94	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
1,1-Dichloropropene [563-58-6]^	0.74	U	ug/L	1	0.74	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
1,2,3-Trichlorobenzene [87-61-6]^	0.86	U	ug/L	1	0.86	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
1,2,3-Trichloropropane [96-18-4]^	0.64	U	ug/L	1	0.64	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
1,2,4-Trichlorobenzene [120-82-1]^	0.70	U	ug/L	1	0.70	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
1,2,4-Trimethylbenzene [95-63-6]^	0.69	U	ug/L	1	0.69	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
1,2-Dibromo-3-chloropropane [96-12-8]^	0.96	U	ug/L	1	0.96	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
1,2-Dibromoethane [106-93-4]^	0.78	U	ug/L	1	0.78	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
1,2-Dichlorobenzene [95-50-1]^	0.73	U	ug/L	1	0.73	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
1,2-Dichloroethane [107-06-2]^	0.63	U	ug/L	1	0.63	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
1,2-Dichloropropane [78-87-5]^	0.80	U	ug/L	1	0.80	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
1,3,5-Trimethylbenzene [108-67-8]^	0.58	U	ug/L	1	0.58	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
1,3-Dichlorobenzene [541-73-1]^	0.77	U	ug/L	1	0.77	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
1,3-Dichloropropane [142-28-9]^	0.60	U	ug/L	1	0.60	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
1,4-Dichlorobenzene [106-46-7]^	0.76	U	ug/L	1	0.76	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
2,2-Dichloropropane [594-20-7]^	0.66	U	ug/L	1	0.66	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
2-Butanone [78-93-3]^	4.5	U	ug/L	1	4.5	5.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
2-Chloroethyl Vinyl Ether [110-75-8]^	2.5	U	ug/L	1	2.5	250	1C19004	EPA 8260D	03/19/21 18:24	KG	
2-Chlorotoluene [95-49-8]^	0.68	U	ug/L	1	0.68	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
2-Hexanone [591-78-6]^	2.5	U	ug/L	1	2.5	5.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
4-Chlorotoluene [106-43-4]^	0.65	U	ug/L	1	0.65	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
4-Isopropyltoluene [99-87-6]^	**5.5**		ug/L	1	0.80	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
4-Methyl-2-pentanone [108-10-1]^	2.5	U	ug/L	1	2.5	5.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
Acetone [67-64-1]^	10	U	ug/L	1	10	20	1C19004	EPA 8260D	03/19/21 18:24	KG	
Benzene [71-43-2]^	0.71	U	ug/L	1	0.71	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
Bromobenzene [108-86-1]^	0.77	U	ug/L	1	0.77	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
Bromochloromethane [74-97-5]^	0.94	U	ug/L	1	0.94	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
Bromodichloromethane [75-27-4]^	0.52	U	ug/L	1	0.52	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
Bromoform [75-25-2]^	0.75	U	ug/L	1	0.75	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
Bromomethane [74-83-9]^	0.95	U	ug/L	1	0.95	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	QV-01
Carbon disulfide [75-15-0]^	2.5	U	ug/L	1	2.5	5.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
Carbon tetrachloride [56-23-5]^	0.94	U	ug/L	1	0.94	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
Chlorobenzene [108-90-7]^	0.72	U	ug/L	1	0.72	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
Chloroethane [75-00-3]^	0.98	U	ug/L	1	0.98	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
Chloroform [67-66-3]^	0.80	U	ug/L	1	0.80	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
Chloromethane [74-87-3]^	0.82	U	ug/L	1	0.82	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
cis-1,2-Dichloroethene [156-59-2]^	0.53	U	ug/L	1	0.53	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
cis-1,3-Dichloropropene [10061-01-5]^	0.59	U	ug/L	1	0.59	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
Dibromochloromethane [124-48-1]^	0.50	U	ug/L	1	0.50	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
Dibromomethane [74-95-3]^	0.84	U	ug/L	1	0.84	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
Dichlorodifluoromethane [75-71-8]^	0.74	U	ug/L	1	0.74	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	

ANALYTICAL RESULTS

Description: GW1 **Lab Sample ID:** AE02130-01 **Received:** 03/17/21 11:00

Matrix: Ground Water **Sampled:** 03/16/21 10:01 **Work Order:** AE02130

Project: Pelican Coast Soil and Groundwater Sampling **Sampled By:** Brandon Selph

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ethylbenzene [100-41-4]^	0.69	U	ug/L	1	0.69	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
Hexachlorobutadiene [87-68-3]^	0.70	U	ug/L	1	0.70	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
Isopropylbenzene [98-82-8]^	0.67	U	ug/L	1	0.67	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
m,p-Xylenes [108-38-3/106-42-3]^	1.3	U	ug/L	1	1.3	2.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
Methylene chloride [75-09-2]^	2.5	U	ug/L	1	2.5	5.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
Methyl-tert-Butyl Ether [1634-04-4]^	0.60	U	ug/L	1	0.60	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
Naphthalene [91-20-3]^	0.82	U	ug/L	1	0.82	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
n-Butyl Benzene [104-51-8]^	0.70	U	ug/L	1	0.70	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
n-Propyl Benzene [103-65-1]^	0.50	U	ug/L	1	0.50	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
o-Xylene [95-47-6]^	0.53	U	ug/L	1	0.53	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
sec-Butylbenzene [135-98-8]^	0.74	U	ug/L	1	0.74	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
Styrene [100-42-5]^	0.61	U	ug/L	1	0.61	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
tert-Butylbenzene [98-06-6]^	0.64	U	ug/L	1	0.64	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
Tetrachloroethene [127-18-4]^	0.76	U	ug/L	1	0.76	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
Toluene [108-88-3]^	0.72	U	ug/L	1	0.72	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
trans-1,2-Dichloroethene [156-60-5]^	0.73	U	ug/L	1	0.73	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
trans-1,3-Dichloropropene [10061-02-6]^	0.73	U	ug/L	1	0.73	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
Trichloroethene [79-01-6]^	0.89	U	ug/L	1	0.89	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
Trichlorofluoromethane [75-69-4]^	0.94	U	ug/L	1	0.94	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
Vinyl chloride [75-01-4]^	0.71	U	ug/L	1	0.71	1.0	1C19004	EPA 8260D	03/19/21 18:24	KG	
Xylenes (Total) [1330-20-7]^	1.3	U	ug/L	1	1.3	2.0	1C19004	EPA 8260D	03/19/21 18:24	KG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*92 %*	*41-142*	*1C19004*	*EPA 8260D*	*03/19/21 18:24*	*KG*	
Dibromofluoromethane	*61*	*1*	*50.0*	*122 %*	*53-146*	*1C19004*	*EPA 8260D*	*03/19/21 18:24*	*KG*	
Toluene-d8	*54*	*1*	*50.0*	*109 %*	*41-146*	*1C19004*	*EPA 8260D*	*03/19/21 18:24*	*KG*	

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8]^	0.020	U	ug/L	1	0.020	0.050	1C17007	EPA 8081B	03/23/21 15:45	JJB	
4,4'-DDE [72-55-9]^	0.036	U	ug/L	1	0.036	0.050	1C17007	EPA 8081B	03/23/21 15:45	JJB	
4,4'-DDT [50-29-3]^	0.025	U	ug/L	1	0.025	0.050	1C17007	EPA 8081B	03/23/21 15:45	JJB	
Aldrin [309-00-2]^	0.032	U	ug/L	1	0.032	0.050	1C17007	EPA 8081B	03/23/21 15:45	JJB	
alpha-BHC [319-84-6]^	0.026	U	ug/L	1	0.026	0.050	1C17007	EPA 8081B	03/23/21 15:45	JJB	
beta-BHC [319-85-7]^	0.036	U	ug/L	1	0.036	0.050	1C17007	EPA 8081B	03/23/21 15:45	JJB	
Chlordane (tech) [12789-03-6]^	0.36	U	ug/L	1	0.36	0.50	1C17007	EPA 8081B	03/23/21 15:45	JJB	
Chlordane-alpha [5103-71-9]^	0.022	U	ug/L	1	0.022	0.050	1C17007	EPA 8081B	03/23/21 15:45	JJB	
Chlordane-gamma [5103-74-2]^	0.024	U	ug/L	1	0.024	0.050	1C17007	EPA 8081B	03/23/21 15:45	JJB	
delta-BHC [319-86-8]^	0.019	U	ug/L	1	0.019	0.050	1C17007	EPA 8081B	03/23/21 15:45	JJB	
Dieldrin [60-57-1]^	0.017	U	ug/L	1	0.017	0.050	1C17007	EPA 8081B	03/23/21 15:45	JJB	
Endosulfan I [959-98-8]^	0.016	U	ug/L	1	0.016	0.050	1C17007	EPA 8081B	03/23/21 15:45	JJB	
Endosulfan II [33213-65-9]^	0.017	U	ug/L	1	0.017	0.050	1C17007	EPA 8081B	03/23/21 15:45	JJB	
Endosulfan sulfate [1031-07-8]^	0.020	U	ug/L	1	0.020	0.050	1C17007	EPA 8081B	03/23/21 15:45	JJB	
Endrin [72-20-8]^	0.014	U	ug/L	1	0.014	0.050	1C17007	EPA 8081B	03/23/21 15:45	JJB	
Endrin aldehyde [7421-93-4]^	0.020	U	ug/L	1	0.020	0.050	1C17007	EPA 8081B	03/23/21 15:45	JJB	
Endrin ketone [53494-70-5]^	0.017	U	ug/L	1	0.017	0.050	1C17007	EPA 8081B	03/23/21 15:45	JJB	

ANALYTICAL RESULTS

Description: GW1 **Lab Sample ID:** AE02130-01 **Received:** 03/17/21 11:00

Matrix: Ground Water **Sampled:** 03/16/21 10:01 **Work Order:** AE02130

Project: Pelican Coast Soil and Groundwater Sampling **Sampled By:** Brandon Selph

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
gamma-BHC [58-89-9]^	0.021	U	ug/L	1	0.021	0.050	1C17007	EPA 8081B	03/23/21 15:45	JJB	
Heptachlor [76-44-8]^	0.026	U	ug/L	1	0.026	0.050	1C17007	EPA 8081B	03/23/21 15:45	JJB	
Heptachlor epoxide [1024-57-3]^	0.018	U	ug/L	1	0.018	0.050	1C17007	EPA 8081B	03/23/21 15:45	JJB	
Isodrin [465-73-6]^	0.030	U	ug/L	1	0.030	0.050	1C17007	EPA 8081B	03/23/21 15:45	JJB	
Methoxychlor [72-43-5]^	0.020	U	ug/L	1	0.020	0.050	1C17007	EPA 8081B	03/23/21 15:45	JJB	
Mirex [2385-85-5]^	0.034	U	ug/L	1	0.034	0.050	1C17007	EPA 8081B	03/23/21 15:45	JJB	
Toxaphene [8001-35-2]^	0.48	U	ug/L	1	0.48	0.50	1C17007	EPA 8081B	03/23/21 15:45	JJB	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.93*	*1*	*1.00*	*93 %*	*38-142*	*1C17007*	*EPA 8081B*	*03/23/21 15:45*	*JJB*	
Decachlorobiphenyl	*0.87*	*1*	*1.00*	*87 %*	*34-159*	*1C17007*	*EPA 8081B*	*03/23/21 15:45*	*JJB*	

ANALYTICAL RESULTS

Description: GW2 **Lab Sample ID:** AE02130-02 **Received:** 03/17/21 11:00

Matrix: Ground Water **Sampled:** 03/16/21 10:49 **Work Order:** AE02130

Project: Pelican Coast Soil and Groundwater Sampling **Sampled By:** Brandon Selph

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.61	U	ug/L	1	0.61	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
1,1,1-Trichloroethane [71-55-6]^	0.80	U	ug/L	1	0.80	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
1,1,2,2-Tetrachloroethane [79-34-5]^	0.54	U	ug/L	1	0.54	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
1,1,2-Trichloroethane [79-00-5]^	0.76	U	ug/L	1	0.76	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
1,1-Dichloroethane [75-34-3]^	0.62	U	ug/L	1	0.62	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
1,1-Dichloroethene [75-35-4]^	0.94	U	ug/L	1	0.94	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
1,1-Dichloropropene [563-58-6]^	0.74	U	ug/L	1	0.74	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
1,2,3-Trichlorobenzene [87-61-6]^	0.86	U	ug/L	1	0.86	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
1,2,3-Trichloropropane [96-18-4]^	0.64	U	ug/L	1	0.64	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
1,2,4-Trichlorobenzene [120-82-1]^	0.70	U	ug/L	1	0.70	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
1,2,4-Trimethylbenzene [95-63-6]^	0.69	U	ug/L	1	0.69	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
1,2-Dibromo-3-chloropropane [96-12-8]^	0.96	U	ug/L	1	0.96	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
1,2-Dibromoethane [106-93-4]^	0.78	U	ug/L	1	0.78	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
1,2-Dichlorobenzene [95-50-1]^	0.73	U	ug/L	1	0.73	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
1,2-Dichloroethane [107-06-2]^	0.63	U	ug/L	1	0.63	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
1,2-Dichloropropane [78-87-5]^	0.80	U	ug/L	1	0.80	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
1,3,5-Trimethylbenzene [108-67-8]^	0.58	U	ug/L	1	0.58	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
1,3-Dichlorobenzene [541-73-1]^	0.77	U	ug/L	1	0.77	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
1,3-Dichloropropane [142-28-9]^	0.60	U	ug/L	1	0.60	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
1,4-Dichlorobenzene [106-46-7]^	0.76	U	ug/L	1	0.76	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
2,2-Dichloropropane [594-20-7]^	0.66	U	ug/L	1	0.66	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
2-Butanone [78-93-3]^	4.5	U	ug/L	1	4.5	5.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
2-Chloroethyl Vinyl Ether [110-75-8]^	2.5	U	ug/L	1	2.5	250	1C19004	EPA 8260D	03/19/21 19:21	KG	
2-Chlorotoluene [95-49-8]^	0.68	U	ug/L	1	0.68	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
2-Hexanone [591-78-6]^	2.5	U	ug/L	1	2.5	5.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
4-Chlorotoluene [106-43-4]^	0.65	U	ug/L	1	0.65	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
4-Isopropyltoluene [99-87-6]^	**1.4**		ug/L	1	0.80	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
4-Methyl-2-pentanone [108-10-1]^	2.5	U	ug/L	1	2.5	5.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
Acetone [67-64-1]^	10	U	ug/L	1	10	20	1C19004	EPA 8260D	03/19/21 19:21	KG	
Benzene [71-43-2]^	0.71	U	ug/L	1	0.71	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
Bromobenzene [108-86-1]^	0.77	U	ug/L	1	0.77	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
Bromochloromethane [74-97-5]^	0.94	U	ug/L	1	0.94	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
Bromodichloromethane [75-27-4]^	0.52	U	ug/L	1	0.52	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
Bromoform [75-25-2]^	0.75	U	ug/L	1	0.75	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
Bromomethane [74-83-9]^	0.95	U	ug/L	1	0.95	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	QV-01
Carbon disulfide [75-15-0]^	2.5	U	ug/L	1	2.5	5.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
Carbon tetrachloride [56-23-5]^	0.94	U	ug/L	1	0.94	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
Chlorobenzene [108-90-7]^	0.72	U	ug/L	1	0.72	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
Chloroethane [75-00-3]^	0.98	U	ug/L	1	0.98	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
Chloroform [67-66-3]^	0.80	U	ug/L	1	0.80	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
Chloromethane [74-87-3]^	0.82	U	ug/L	1	0.82	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
cis-1,2-Dichloroethene [156-59-2]^	0.53	U	ug/L	1	0.53	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
cis-1,3-Dichloropropene [10061-01-5]^	0.59	U	ug/L	1	0.59	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
Dibromochloromethane [124-48-1]^	0.50	U	ug/L	1	0.50	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
Dibromomethane [74-95-3]^	0.84	U	ug/L	1	0.84	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
Dichlorodifluoromethane [75-71-8]^	0.74	U	ug/L	1	0.74	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	

ANALYTICAL RESULTS

Description: GW2 **Lab Sample ID:** AE02130-02 **Received:** 03/17/21 11:00

Matrix: Ground Water **Sampled:** 03/16/21 10:49 **Work Order:** AE02130

Project: Pelican Coast Soil and Groundwater Sampling **Sampled By:** Brandon Selph

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ethylbenzene [100-41-4]^	0.69	U	ug/L	1	0.69	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
Hexachlorobutadiene [87-68-3]^	0.70	U	ug/L	1	0.70	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
Isopropylbenzene [98-82-8]^	0.67	U	ug/L	1	0.67	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
m,p-Xylenes [108-38-3/106-42-3]^	1.3	U	ug/L	1	1.3	2.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
Methylene chloride [75-09-2]^	2.5	U	ug/L	1	2.5	5.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
Methyl-tert-Butyl Ether [1634-04-4]^	0.60	U	ug/L	1	0.60	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
Naphthalene [91-20-3]^	0.82	U	ug/L	1	0.82	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
n-Butyl Benzene [104-51-8]^	0.70	U	ug/L	1	0.70	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
n-Propyl Benzene [103-65-1]^	0.50	U	ug/L	1	0.50	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
o-Xylene [95-47-6]^	0.53	U	ug/L	1	0.53	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
sec-Butylbenzene [135-98-8]^	0.74	U	ug/L	1	0.74	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
Styrene [100-42-5]^	0.61	U	ug/L	1	0.61	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
tert-Butylbenzene [98-06-6]^	0.64	U	ug/L	1	0.64	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
Tetrachloroethene [127-18-4]^	0.76	U	ug/L	1	0.76	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
Toluene [108-88-3]^	0.72	U	ug/L	1	0.72	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
trans-1,2-Dichloroethene [156-60-5]^	0.73	U	ug/L	1	0.73	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
trans-1,3-Dichloropropene [10061-02-6]^	0.73	U	ug/L	1	0.73	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
Trichloroethene [79-01-6]^	0.89	U	ug/L	1	0.89	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
Trichlorofluoromethane [75-69-4]^	0.94	U	ug/L	1	0.94	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
Vinyl chloride [75-01-4]^	0.71	U	ug/L	1	0.71	1.0	1C19004	EPA 8260D	03/19/21 19:21	KG	
Xylenes (Total) [1330-20-7]^	1.3	U	ug/L	1	1.3	2.0	1C19004	EPA 8260D	03/19/21 19:21	KG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*43*	*1*	*50.0*	*86 %*	*41-142*	*1C19004*	*EPA 8260D*	*03/19/21 19:21*	*KG*	
Dibromofluoromethane	*61*	*1*	*50.0*	*123 %*	*53-146*	*1C19004*	*EPA 8260D*	*03/19/21 19:21*	*KG*	
Toluene-d8	*55*	*1*	*50.0*	*110 %*	*41-146*	*1C19004*	*EPA 8260D*	*03/19/21 19:21*	*KG*	

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8]^	0.020	U	ug/L	1	0.020	0.050	1C17007	EPA 8081B	03/23/21 15:57	JJB	
4,4'-DDE [72-55-9]^	0.036	U	ug/L	1	0.036	0.050	1C17007	EPA 8081B	03/23/21 15:57	JJB	
4,4'-DDT [50-29-3]^	0.025	U	ug/L	1	0.025	0.050	1C17007	EPA 8081B	03/23/21 15:57	JJB	
Aldrin [309-00-2]^	0.032	U	ug/L	1	0.032	0.050	1C17007	EPA 8081B	03/23/21 15:57	JJB	
alpha-BHC [319-84-6]^	0.026	U	ug/L	1	0.026	0.050	1C17007	EPA 8081B	03/23/21 15:57	JJB	
beta-BHC [319-85-7]^	0.036	U	ug/L	1	0.036	0.050	1C17007	EPA 8081B	03/23/21 15:57	JJB	
Chlordane (tech) [12789-03-6]^	0.36	U	ug/L	1	0.36	0.50	1C17007	EPA 8081B	03/23/21 15:57	JJB	
Chlordane-alpha [5103-71-9]^	0.022	U	ug/L	1	0.022	0.050	1C17007	EPA 8081B	03/23/21 15:57	JJB	
Chlordane-gamma [5103-74-2]^	0.024	U	ug/L	1	0.024	0.050	1C17007	EPA 8081B	03/23/21 15:57	JJB	
delta-BHC [319-86-8]^	0.019	U	ug/L	1	0.019	0.050	1C17007	EPA 8081B	03/23/21 15:57	JJB	
Dieldrin [60-57-1]^	0.017	U	ug/L	1	0.017	0.050	1C17007	EPA 8081B	03/23/21 15:57	JJB	
Endosulfan I [959-98-8]^	0.016	U	ug/L	1	0.016	0.050	1C17007	EPA 8081B	03/23/21 15:57	JJB	
Endosulfan II [33213-65-9]^	0.017	U	ug/L	1	0.017	0.050	1C17007	EPA 8081B	03/23/21 15:57	JJB	
Endosulfan sulfate [1031-07-8]^	0.020	U	ug/L	1	0.020	0.050	1C17007	EPA 8081B	03/23/21 15:57	JJB	
Endrin [72-20-8]^	0.014	U	ug/L	1	0.014	0.050	1C17007	EPA 8081B	03/23/21 15:57	JJB	
Endrin aldehyde [7421-93-4]^	0.020	U	ug/L	1	0.020	0.050	1C17007	EPA 8081B	03/23/21 15:57	JJB	
Endrin ketone [53494-70-5]^	0.017	U	ug/L	1	0.017	0.050	1C17007	EPA 8081B	03/23/21 15:57	JJB	

ANALYTICAL RESULTS

Description: GW2 **Lab Sample ID:** AE02130-02 **Received:** 03/17/21 11:00

Matrix: Ground Water **Sampled:** 03/16/21 10:49 **Work Order:** AE02130

Project: Pelican Coast Soil and Groundwater Sampling **Sampled By:** Brandon Selph

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
gamma-BHC [58-89-9]^	0.021	U	ug/L	1	0.021	0.050	1C17007	EPA 8081B	03/23/21 15:57	JJB	
Heptachlor [76-44-8]^	0.026	U	ug/L	1	0.026	0.050	1C17007	EPA 8081B	03/23/21 15:57	JJB	
Heptachlor epoxide [1024-57-3]^	0.018	U	ug/L	1	0.018	0.050	1C17007	EPA 8081B	03/23/21 15:57	JJB	
Isodrin [465-73-6]^	0.030	U	ug/L	1	0.030	0.050	1C17007	EPA 8081B	03/23/21 15:57	JJB	
Methoxychlor [72-43-5]^	0.020	U	ug/L	1	0.020	0.050	1C17007	EPA 8081B	03/23/21 15:57	JJB	
Mirex [2385-85-5]^	0.034	U	ug/L	1	0.034	0.050	1C17007	EPA 8081B	03/23/21 15:57	JJB	
Toxaphene [8001-35-2]^	0.48	U	ug/L	1	0.48	0.50	1C17007	EPA 8081B	03/23/21 15:57	JJB	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.68*	*1*	*1.00*	*68 %*	*38-142*	*1C17007*	*EPA 8081B*	*03/23/21 15:57*	*JJB*	
Decachlorobiphenyl	*0.76*	*1*	*1.00*	*76 %*	*34-159*	*1C17007*	*EPA 8081B*	*03/23/21 15:57*	*JJB*	

ANALYTICAL RESULTS

Description: Field Blank
Matrix: Ground Water
Project: Pelican Coast Soil and Groundwater Sampling

Lab Sample ID: AE02130-03
Sampled: 03/16/21 11:26
Sampled By: Brandon Selph

Received: 03/17/21 11:00
Work Order: AE02130

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.61	U	ug/L	1	0.61	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
1,1,1-Trichloroethane [71-55-6]^	0.80	U	ug/L	1	0.80	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
1,1,2,2-Tetrachloroethane [79-34-5]^	0.54	U	ug/L	1	0.54	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
1,1,2-Trichloroethane [79-00-5]^	0.76	U	ug/L	1	0.76	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
1,1-Dichloroethane [75-34-3]^	0.62	U	ug/L	1	0.62	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
1,1-Dichloroethene [75-35-4]^	0.94	U	ug/L	1	0.94	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
1,1-Dichloropropene [563-58-6]^	0.74	U	ug/L	1	0.74	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
1,2,3-Trichlorobenzene [87-61-6]^	0.86	U	ug/L	1	0.86	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
1,2,3-Trichloropropane [96-18-4]^	0.64	U	ug/L	1	0.64	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
1,2,4-Trichlorobenzene [120-82-1]^	0.70	U	ug/L	1	0.70	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
1,2,4-Trimethylbenzene [95-63-6]^	0.69	U	ug/L	1	0.69	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
1,2-Dibromo-3-chloropropane [96-12-8]^	0.96	U	ug/L	1	0.96	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
1,2-Dibromoethane [106-93-4]^	0.78	U	ug/L	1	0.78	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
1,2-Dichlorobenzene [95-50-1]^	0.73	U	ug/L	1	0.73	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
1,2-Dichloroethane [107-06-2]^	0.63	U	ug/L	1	0.63	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
1,2-Dichloropropane [78-87-5]^	0.80	U	ug/L	1	0.80	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
1,3,5-Trimethylbenzene [108-67-8]^	0.58	U	ug/L	1	0.58	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
1,3-Dichlorobenzene [541-73-1]^	0.77	U	ug/L	1	0.77	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
1,3-Dichloropropane [142-28-9]^	0.60	U	ug/L	1	0.60	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
1,4-Dichlorobenzene [106-46-7]^	0.76	U	ug/L	1	0.76	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
2,2-Dichloropropane [594-20-7]^	0.66	U	ug/L	1	0.66	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
2-Butanone [78-93-3]^	4.5	U	ug/L	1	4.5	5.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
2-Chloroethyl Vinyl Ether [110-75-8]^	2.5	U	ug/L	1	2.5	100	1C22014	EPA 8260D	03/22/21 16:54	KG	
2-Chlorotoluene [95-49-8]^	0.68	U	ug/L	1	0.68	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
2-Hexanone [591-78-6]^	2.5	U	ug/L	1	2.5	5.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
4-Chlorotoluene [106-43-4]^	0.65	U	ug/L	1	0.65	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
4-Isopropyltoluene [99-87-6]^	0.80	U	ug/L	1	0.80	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
4-Methyl-2-pentanone [108-10-1]^	2.5	U	ug/L	1	2.5	5.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
Acetone [67-64-1]^	10	U	ug/L	1	10	20	1C22014	EPA 8260D	03/22/21 16:54	KG	
Benzene [71-43-2]^	0.71	U	ug/L	1	0.71	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
Bromobenzene [108-86-1]^	0.77	U	ug/L	1	0.77	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
Bromochloromethane [74-97-5]^	0.94	U	ug/L	1	0.94	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
Bromodichloromethane [75-27-4]^	0.52	U	ug/L	1	0.52	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
Bromoform [75-25-2]^	0.75	U	ug/L	1	0.75	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	QV-01
Bromomethane [74-83-9]^	0.95	U	ug/L	1	0.95	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
Carbon disulfide [75-15-0]^	2.5	U	ug/L	1	2.5	5.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
Carbon tetrachloride [56-23-5]^	0.94	U	ug/L	1	0.94	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
Chlorobenzene [108-90-7]^	0.72	U	ug/L	1	0.72	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
Chloroethane [75-00-3]^	0.98	U	ug/L	1	0.98	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
Chloroform [67-66-3]^	0.80	U	ug/L	1	0.80	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
Chloromethane [74-87-3]^	0.82	U	ug/L	1	0.82	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
cis-1,2-Dichloroethene [156-59-2]^	0.53	U	ug/L	1	0.53	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
cis-1,3-Dichloropropene [10061-01-5]^	0.59	U	ug/L	1	0.59	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
Dibromochloromethane [124-48-1]^	0.50	U	ug/L	1	0.50	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
Dibromomethane [74-95-3]^	0.84	U	ug/L	1	0.84	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
Dichlorodifluoromethane [75-71-8]^	0.74	U	ug/L	1	0.74	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	

ANALYTICAL RESULTS

Description: Field Blank
Matrix: Ground Water
Project: Pelican Coast Soil and Groundwater Sampling

Lab Sample ID: AE02130-03
Sampled: 03/16/21 11:26
Sampled By: Brandon Selph

Received: 03/17/21 11:00
Work Order: AE02130

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ethylbenzene [100-41-4]^	0.69	U	ug/L	1	0.69	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
Hexachlorobutadiene [87-68-3]^	0.70	U	ug/L	1	0.70	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
Isopropylbenzene [98-82-8]^	0.67	U	ug/L	1	0.67	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
m,p-Xylenes [108-38-3/106-42-3]^	1.3	U	ug/L	1	1.3	2.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
Methylene chloride [75-09-2]^	2.5	U	ug/L	1	2.5	5.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
Methyl-tert-Butyl Ether [1634-04-4]^	0.60	U	ug/L	1	0.60	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
Naphthalene [91-20-3]^	0.82	U	ug/L	1	0.82	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
n-Butyl Benzene [104-51-8]^	0.70	U	ug/L	1	0.70	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
n-Propyl Benzene [103-65-1]^	0.50	U	ug/L	1	0.50	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
o-Xylene [95-47-6]^	0.53	U	ug/L	1	0.53	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
sec-Butylbenzene [135-98-8]^	0.74	U	ug/L	1	0.74	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
Styrene [100-42-5]^	0.61	U	ug/L	1	0.61	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
tert-Butylbenzene [98-06-6]^	0.64	U	ug/L	1	0.64	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
Tetrachloroethene [127-18-4]^	0.76	U	ug/L	1	0.76	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
Toluene [108-88-3]^	0.72	U	ug/L	1	0.72	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
trans-1,2-Dichloroethene [156-60-5]^	0.73	U	ug/L	1	0.73	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
trans-1,3-Dichloropropene [10061-02-6]^	0.73	U	ug/L	1	0.73	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
Trichloroethene [79-01-6]^	0.89	U	ug/L	1	0.89	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
Trichlorofluoromethane [75-69-4]^	0.94	U	ug/L	1	0.94	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
Vinyl chloride [75-01-4]^	0.71	U	ug/L	1	0.71	1.0	1C22014	EPA 8260D	03/22/21 16:54	KG	
Xylenes (Total) [1330-20-7]^	1.3	U	ug/L	1	1.3	2.0	1C22014	EPA 8260D	03/22/21 16:54	KG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*41-142*	*1C22014*	*EPA 8260D*	*03/22/21 16:54*	*KG*	
Dibromofluoromethane	*47*	*1*	*50.0*	*94 %*	*53-146*	*1C22014*	*EPA 8260D*	*03/22/21 16:54*	*KG*	
Toluene-d8	*47*	*1*	*50.0*	*95 %*	*41-146*	*1C22014*	*EPA 8260D*	*03/22/21 16:54*	*KG*	

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8]^	0.020	U	ug/L	1	0.020	0.050	1C17007	EPA 8081B	03/23/21 16:09	JJB	
4,4'-DDE [72-55-9]^	0.036	U	ug/L	1	0.036	0.050	1C17007	EPA 8081B	03/23/21 16:09	JJB	
4,4'-DDT [50-29-3]^	0.025	U	ug/L	1	0.025	0.050	1C17007	EPA 8081B	03/23/21 16:09	JJB	
Aldrin [309-00-2]^	0.032	U	ug/L	1	0.032	0.050	1C17007	EPA 8081B	03/23/21 16:09	JJB	
alpha-BHC [319-84-6]^	0.026	U	ug/L	1	0.026	0.050	1C17007	EPA 8081B	03/23/21 16:09	JJB	
beta-BHC [319-85-7]^	0.036	U	ug/L	1	0.036	0.050	1C17007	EPA 8081B	03/23/21 16:09	JJB	
Chlordane (tech) [12789-03-6]^	0.36	U	ug/L	1	0.36	0.50	1C17007	EPA 8081B	03/23/21 16:09	JJB	
Chlordane-alpha [5103-71-9]^	0.022	U	ug/L	1	0.022	0.050	1C17007	EPA 8081B	03/23/21 16:09	JJB	
Chlordane-gamma [5103-74-2]^	0.024	U	ug/L	1	0.024	0.050	1C17007	EPA 8081B	03/23/21 16:09	JJB	
delta-BHC [319-86-8]^	0.019	U	ug/L	1	0.019	0.050	1C17007	EPA 8081B	03/23/21 16:09	JJB	
Dieldrin [60-57-1]^	0.017	U	ug/L	1	0.017	0.050	1C17007	EPA 8081B	03/23/21 16:09	JJB	
Endosulfan I [959-98-8]^	0.016	U	ug/L	1	0.016	0.050	1C17007	EPA 8081B	03/23/21 16:09	JJB	
Endosulfan II [33213-65-9]^	0.017	U	ug/L	1	0.017	0.050	1C17007	EPA 8081B	03/23/21 16:09	JJB	
Endosulfan sulfate [1031-07-8]^	0.020	U	ug/L	1	0.020	0.050	1C17007	EPA 8081B	03/23/21 16:09	JJB	
Endrin [72-20-8]^	0.014	U	ug/L	1	0.014	0.050	1C17007	EPA 8081B	03/23/21 16:09	JJB	
Endrin aldehyde [7421-93-4]^	0.020	U	ug/L	1	0.020	0.050	1C17007	EPA 8081B	03/23/21 16:09	JJB	
Endrin ketone [53494-70-5]^	0.017	U	ug/L	1	0.017	0.050	1C17007	EPA 8081B	03/23/21 16:09	JJB	

ANALYTICAL RESULTS

Description: Field Blank
Matrix: Ground Water
Project: Pelican Coast Soil and Groundwater Sampling

Lab Sample ID: AE02130-03
Sampled: 03/16/21 11:26
Sampled By: Brandon Selph

Received: 03/17/21 11:00
Work Order: AE02130

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
gamma-BHC [58-89-9]^	0.021	U	ug/L	1	0.021	0.050	1C17007	EPA 8081B	03/23/21 16:09	JJB	
Heptachlor [76-44-8]^	0.026	U	ug/L	1	0.026	0.050	1C17007	EPA 8081B	03/23/21 16:09	JJB	
Heptachlor epoxide [1024-57-3]^	0.018	U	ug/L	1	0.018	0.050	1C17007	EPA 8081B	03/23/21 16:09	JJB	
Isodrin [465-73-6]^	0.030	U	ug/L	1	0.030	0.050	1C17007	EPA 8081B	03/23/21 16:09	JJB	
Methoxychlor [72-43-5]^	0.020	U	ug/L	1	0.020	0.050	1C17007	EPA 8081B	03/23/21 16:09	JJB	
Mirex [2385-85-5]^	0.034	U	ug/L	1	0.034	0.050	1C17007	EPA 8081B	03/23/21 16:09	JJB	
Toxaphene [8001-35-2]^	0.48	U	ug/L	1	0.48	0.50	1C17007	EPA 8081B	03/23/21 16:09	JJB	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.84*	*1*	*1.00*	*84 %*	*38-142*	*1C17007*	*EPA 8081B*	*03/23/21 16:09*	*JJB*	
Decachlorobiphenyl	*0.70*	*1*	*1.00*	*70 %*	*34-159*	*1C17007*	*EPA 8081B*	*03/23/21 16:09*	*JJB*	

ANALYTICAL RESULTS

Description: GW-3 **Lab Sample ID:** AE02130-04 **Received:** 03/17/21 11:00

Matrix: Ground Water **Sampled:** 03/16/21 11:48 **Work Order:** AE02130

Project: Pelican Coast Soil and Groundwater Sampling **Sampled By:** Brandon Selph

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.61	U	ug/L	1	0.61	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
1,1,1-Trichloroethane [71-55-6]^	0.80	U	ug/L	1	0.80	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
1,1,2,2-Tetrachloroethane [79-34-5]^	0.54	U	ug/L	1	0.54	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
1,1,2-Trichloroethane [79-00-5]^	0.76	U	ug/L	1	0.76	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
1,1-Dichloroethane [75-34-3]^	0.62	U	ug/L	1	0.62	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
1,1-Dichloroethene [75-35-4]^	0.94	U	ug/L	1	0.94	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
1,1-Dichloropropene [563-58-6]^	0.74	U	ug/L	1	0.74	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
1,2,3-Trichlorobenzene [87-61-6]^	0.86	U	ug/L	1	0.86	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
1,2,3-Trichloropropane [96-18-4]^	0.64	U	ug/L	1	0.64	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
1,2,4-Trichlorobenzene [120-82-1]^	0.70	U	ug/L	1	0.70	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
1,2,4-Trimethylbenzene [95-63-6]^	0.69	U	ug/L	1	0.69	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
1,2-Dibromo-3-chloropropane [96-12-8]^	0.96	U	ug/L	1	0.96	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
1,2-Dibromoethane [106-93-4]^	0.78	U	ug/L	1	0.78	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
1,2-Dichlorobenzene [95-50-1]^	0.73	U	ug/L	1	0.73	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
1,2-Dichloroethane [107-06-2]^	0.63	U	ug/L	1	0.63	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
1,2-Dichloropropane [78-87-5]^	0.80	U	ug/L	1	0.80	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
1,3,5-Trimethylbenzene [108-67-8]^	0.58	U	ug/L	1	0.58	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
1,3-Dichlorobenzene [541-73-1]^	0.77	U	ug/L	1	0.77	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
1,3-Dichloropropane [142-28-9]^	0.60	U	ug/L	1	0.60	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
1,4-Dichlorobenzene [106-46-7]^	0.76	U	ug/L	1	0.76	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
2,2-Dichloropropane [594-20-7]^	0.66	U	ug/L	1	0.66	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
2-Butanone [78-93-3]^	4.5	U	ug/L	1	4.5	5.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
2-Chloroethyl Vinyl Ether [110-75-8]^	2.5	U	ug/L	1	2.5	100	1C22014	EPA 8260D	03/22/21 16:25	KG	
2-Chlorotoluene [95-49-8]^	0.68	U	ug/L	1	0.68	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
2-Hexanone [591-78-6]^	2.5	U	ug/L	1	2.5	5.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
4-Chlorotoluene [106-43-4]^	0.65	U	ug/L	1	0.65	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
4-Isopropyltoluene [99-87-6]^	0.80	U	ug/L	1	0.80	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
4-Methyl-2-pentanone [108-10-1]^	2.5	U	ug/L	1	2.5	5.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
Acetone [67-64-1]^	10	U	ug/L	1	10	20	1C22014	EPA 8260D	03/22/21 16:25	KG	
Benzene [71-43-2]^	0.71	U	ug/L	1	0.71	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
Bromobenzene [108-86-1]^	0.77	U	ug/L	1	0.77	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
Bromochloromethane [74-97-5]^	0.94	U	ug/L	1	0.94	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
Bromodichloromethane [75-27-4]^	0.52	U	ug/L	1	0.52	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
Bromoform [75-25-2]^	0.75	U	ug/L	1	0.75	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	QV-01
Bromomethane [74-83-9]^	0.95	U	ug/L	1	0.95	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
Carbon disulfide [75-15-0]^	2.5	U	ug/L	1	2.5	5.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
Carbon tetrachloride [56-23-5]^	0.94	U	ug/L	1	0.94	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
Chlorobenzene [108-90-7]^	0.72	U	ug/L	1	0.72	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
Chloroethane [75-00-3]^	0.98	U	ug/L	1	0.98	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
Chloroform [67-66-3]^	0.80	U	ug/L	1	0.80	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
Chloromethane [74-87-3]^	0.82	U	ug/L	1	0.82	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
cis-1,2-Dichloroethene [156-59-2]^	0.53	U	ug/L	1	0.53	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
cis-1,3-Dichloropropene [10061-01-5]^	0.59	U	ug/L	1	0.59	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
Dibromochloromethane [124-48-1]^	0.50	U	ug/L	1	0.50	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
Dibromomethane [74-95-3]^	0.84	U	ug/L	1	0.84	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
Dichlorodifluoromethane [75-71-8]^	0.74	U	ug/L	1	0.74	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	

ANALYTICAL RESULTS

Description: GW-3 **Lab Sample ID:** AE02130-04 **Received:** 03/17/21 11:00

Matrix: Ground Water **Sampled:** 03/16/21 11:48 **Work Order:** AE02130

Project: Pelican Coast Soil and Groundwater Sampling **Sampled By:** Brandon Selph

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ethylbenzene [100-41-4]^	0.69	U	ug/L	1	0.69	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
Hexachlorobutadiene [87-68-3]^	0.70	U	ug/L	1	0.70	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
Isopropylbenzene [98-82-8]^	0.67	U	ug/L	1	0.67	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
m,p-Xylenes [108-38-3/106-42-3]^	1.3	U	ug/L	1	1.3	2.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
Methylene chloride [75-09-2]^	2.5	U	ug/L	1	2.5	5.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
Methyl-tert-Butyl Ether [1634-04-4]^	0.60	U	ug/L	1	0.60	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
Naphthalene [91-20-3]^	0.82	U	ug/L	1	0.82	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
n-Butyl Benzene [104-51-8]^	0.70	U	ug/L	1	0.70	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
n-Propyl Benzene [103-65-1]^	0.50	U	ug/L	1	0.50	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
o-Xylene [95-47-6]^	0.53	U	ug/L	1	0.53	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
sec-Butylbenzene [135-98-8]^	0.74	U	ug/L	1	0.74	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
Styrene [100-42-5]^	0.61	U	ug/L	1	0.61	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
tert-Butylbenzene [98-06-6]^	0.64	U	ug/L	1	0.64	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
Tetrachloroethene [127-18-4]^	0.76	U	ug/L	1	0.76	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
Toluene [108-88-3]^	0.72	U	ug/L	1	0.72	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
trans-1,2-Dichloroethene [156-60-5]^	0.73	U	ug/L	1	0.73	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
trans-1,3-Dichloropropene [10061-02-6]^	0.73	U	ug/L	1	0.73	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
Trichloroethene [79-01-6]^	0.89	U	ug/L	1	0.89	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
Trichlorofluoromethane [75-69-4]^	0.94	U	ug/L	1	0.94	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
Vinyl chloride [75-01-4]^	0.71	U	ug/L	1	0.71	1.0	1C22014	EPA 8260D	03/22/21 16:25	KG	
Xylenes (Total) [1330-20-7]^	1.3	U	ug/L	1	1.3	2.0	1C22014	EPA 8260D	03/22/21 16:25	KG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*92 %*	*41-142*	*1C22014*	*EPA 8260D*	*03/22/21 16:25*	*KG*	
Dibromofluoromethane	*47*	*1*	*50.0*	*95 %*	*53-146*	*1C22014*	*EPA 8260D*	*03/22/21 16:25*	*KG*	
Toluene-d8	*49*	*1*	*50.0*	*97 %*	*41-146*	*1C22014*	*EPA 8260D*	*03/22/21 16:25*	*KG*	

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8]^	0.020	U	ug/L	1	0.020	0.050	1C17007	EPA 8081B	03/23/21 16:22	JJB	
4,4'-DDE [72-55-9]^	0.036	U	ug/L	1	0.036	0.050	1C17007	EPA 8081B	03/23/21 16:22	JJB	
4,4'-DDT [50-29-3]^	0.025	U	ug/L	1	0.025	0.050	1C17007	EPA 8081B	03/23/21 16:22	JJB	
Aldrin [309-00-2]^	0.032	U	ug/L	1	0.032	0.050	1C17007	EPA 8081B	03/23/21 16:22	JJB	
alpha-BHC [319-84-6]^	0.026	U	ug/L	1	0.026	0.050	1C17007	EPA 8081B	03/23/21 16:22	JJB	
beta-BHC [319-85-7]^	0.036	U	ug/L	1	0.036	0.050	1C17007	EPA 8081B	03/23/21 16:22	JJB	
Chlordane (tech) [12789-03-6]^	0.36	U	ug/L	1	0.36	0.50	1C17007	EPA 8081B	03/23/21 16:22	JJB	
Chlordane-alpha [5103-71-9]^	0.022	U	ug/L	1	0.022	0.050	1C17007	EPA 8081B	03/23/21 16:22	JJB	
Chlordane-gamma [5103-74-2]^	0.024	U	ug/L	1	0.024	0.050	1C17007	EPA 8081B	03/23/21 16:22	JJB	
delta-BHC [319-86-8]^	0.019	U	ug/L	1	0.019	0.050	1C17007	EPA 8081B	03/23/21 16:22	JJB	
Dieldrin [60-57-1]^	0.017	U	ug/L	1	0.017	0.050	1C17007	EPA 8081B	03/23/21 16:22	JJB	
Endosulfan I [959-98-8]^	0.016	U	ug/L	1	0.016	0.050	1C17007	EPA 8081B	03/23/21 16:22	JJB	
Endosulfan II [33213-65-9]^	0.017	U	ug/L	1	0.017	0.050	1C17007	EPA 8081B	03/23/21 16:22	JJB	
Endosulfan sulfate [1031-07-8]^	0.020	U	ug/L	1	0.020	0.050	1C17007	EPA 8081B	03/23/21 16:22	JJB	
Endrin [72-20-8]^	0.014	U	ug/L	1	0.014	0.050	1C17007	EPA 8081B	03/23/21 16:22	JJB	
Endrin aldehyde [7421-93-4]^	0.020	U	ug/L	1	0.020	0.050	1C17007	EPA 8081B	03/23/21 16:22	JJB	
Endrin ketone [53494-70-5]^	0.017	U	ug/L	1	0.017	0.050	1C17007	EPA 8081B	03/23/21 16:22	JJB	

ANALYTICAL RESULTS

Description: GW-3 **Lab Sample ID:** AE02130-04 **Received:** 03/17/21 11:00

Matrix: Ground Water **Sampled:** 03/16/21 11:48 **Work Order:** AE02130

Project: Pelican Coast Soil and Groundwater Sampling **Sampled By:** Brandon Selph

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
gamma-BHC [58-89-9]^	0.021	U	ug/L	1	0.021	0.050	1C17007	EPA 8081B	03/23/21 16:22	JJB	
Heptachlor [76-44-8]^	0.026	U	ug/L	1	0.026	0.050	1C17007	EPA 8081B	03/23/21 16:22	JJB	
Heptachlor epoxide [1024-57-3]^	0.018	U	ug/L	1	0.018	0.050	1C17007	EPA 8081B	03/23/21 16:22	JJB	
Isodrin [465-73-6]^	0.030	U	ug/L	1	0.030	0.050	1C17007	EPA 8081B	03/23/21 16:22	JJB	
Methoxychlor [72-43-5]^	0.020	U	ug/L	1	0.020	0.050	1C17007	EPA 8081B	03/23/21 16:22	JJB	
Mirex [2385-85-5]^	0.034	U	ug/L	1	0.034	0.050	1C17007	EPA 8081B	03/23/21 16:22	JJB	
Toxaphene [8001-35-2]^	0.48	U	ug/L	1	0.48	0.50	1C17007	EPA 8081B	03/23/21 16:22	JJB	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.73*	*1*	*1.00*	*73 %*	*38-142*	*1C17007*	*EPA 8081B*	*03/23/21 16:22*	*JJB*	
Decachlorobiphenyl	*0.78*	*1*	*1.00*	*78 %*	*34-159*	*1C17007*	*EPA 8081B*	*03/23/21 16:22*	*JJB*	

ANALYTICAL RESULTS

Description: GW-4 **Lab Sample ID:** AE02130-05 **Received:** 03/17/21 11:00

Matrix: Ground Water **Sampled:** 03/16/21 12:44 **Work Order:** AE02130

Project: Pelican Coast Soil and Groundwater Sampling **Sampled By:** Brandon Selph

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.61	U	ug/L	1	0.61	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
1,1,1-Trichloroethane [71-55-6]^	0.80	U	ug/L	1	0.80	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
1,1,2,2-Tetrachloroethane [79-34-5]^	0.54	U	ug/L	1	0.54	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
1,1,2-Trichloroethane [79-00-5]^	0.76	U	ug/L	1	0.76	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
1,1-Dichloroethane [75-34-3]^	0.62	U	ug/L	1	0.62	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
1,1-Dichloroethene [75-35-4]^	0.94	U	ug/L	1	0.94	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
1,1-Dichloropropene [563-58-6]^	0.74	U	ug/L	1	0.74	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
1,2,3-Trichlorobenzene [87-61-6]^	0.86	U	ug/L	1	0.86	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
1,2,3-Trichloropropane [96-18-4]^	0.64	U	ug/L	1	0.64	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
1,2,4-Trichlorobenzene [120-82-1]^	0.70	U	ug/L	1	0.70	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
1,2,4-Trimethylbenzene [95-63-6]^	0.69	U	ug/L	1	0.69	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
1,2-Dibromo-3-chloropropane [96-12-8]^	0.96	U	ug/L	1	0.96	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
1,2-Dibromoethane [106-93-4]^	0.78	U	ug/L	1	0.78	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
1,2-Dichlorobenzene [95-50-1]^	0.73	U	ug/L	1	0.73	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
1,2-Dichloroethane [107-06-2]^	0.63	U	ug/L	1	0.63	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
1,2-Dichloropropane [78-87-5]^	0.80	U	ug/L	1	0.80	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
1,3,5-Trimethylbenzene [108-67-8]^	0.58	U	ug/L	1	0.58	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
1,3-Dichlorobenzene [541-73-1]^	0.77	U	ug/L	1	0.77	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
1,3-Dichloropropane [142-28-9]^	0.60	U	ug/L	1	0.60	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
1,4-Dichlorobenzene [106-46-7]^	0.76	U	ug/L	1	0.76	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
2,2-Dichloropropane [594-20-7]^	0.66	U	ug/L	1	0.66	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
2-Butanone [78-93-3]^	4.5	U	ug/L	1	4.5	5.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
2-Chloroethyl Vinyl Ether [110-75-8]^	2.5	U	ug/L	1	2.5	100	1C22014	EPA 8260D	03/22/21 17:22	KG	
2-Chlorotoluene [95-49-8]^	0.68	U	ug/L	1	0.68	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
2-Hexanone [591-78-6]^	2.5	U	ug/L	1	2.5	5.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
4-Chlorotoluene [106-43-4]^	0.65	U	ug/L	1	0.65	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
4-Isopropyltoluene [99-87-6]^	0.80	U	ug/L	1	0.80	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
4-Methyl-2-pentanone [108-10-1]^	2.5	U	ug/L	1	2.5	5.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
Acetone [67-64-1]^	10	U	ug/L	1	10	20	1C22014	EPA 8260D	03/22/21 17:22	KG	
Benzene [71-43-2]^	0.71	U	ug/L	1	0.71	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
Bromobenzene [108-86-1]^	0.77	U	ug/L	1	0.77	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
Bromochloromethane [74-97-5]^	0.94	U	ug/L	1	0.94	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
Bromodichloromethane [75-27-4]^	0.52	U	ug/L	1	0.52	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
Bromoform [75-25-2]^	0.75	U	ug/L	1	0.75	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	QV-01
Bromomethane [74-83-9]^	0.95	U	ug/L	1	0.95	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
Carbon disulfide [75-15-0]^	2.5	U	ug/L	1	2.5	5.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
Carbon tetrachloride [56-23-5]^	0.94	U	ug/L	1	0.94	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
Chlorobenzene [108-90-7]^	0.72	U	ug/L	1	0.72	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
Chloroethane [75-00-3]^	0.98	U	ug/L	1	0.98	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
Chloroform [67-66-3]^	0.80	U	ug/L	1	0.80	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
Chloromethane [74-87-3]^	0.82	U	ug/L	1	0.82	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
cis-1,2-Dichloroethene [156-59-2]^	0.53	U	ug/L	1	0.53	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
cis-1,3-Dichloropropene [10061-01-5]^	0.59	U	ug/L	1	0.59	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
Dibromochloromethane [124-48-1]^	0.50	U	ug/L	1	0.50	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
Dibromomethane [74-95-3]^	0.84	U	ug/L	1	0.84	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
Dichlorodifluoromethane [75-71-8]^	0.74	U	ug/L	1	0.74	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	

ANALYTICAL RESULTS

Description: GW-4 **Lab Sample ID:** AE02130-05 **Received:** 03/17/21 11:00

Matrix: Ground Water **Sampled:** 03/16/21 12:44 **Work Order:** AE02130

Project: Pelican Coast Soil and Groundwater Sampling **Sampled By:** Brandon Selph

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ethylbenzene [100-41-4]^	0.69	U	ug/L	1	0.69	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
Hexachlorobutadiene [87-68-3]^	0.70	U	ug/L	1	0.70	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
Isopropylbenzene [98-82-8]^	0.67	U	ug/L	1	0.67	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
m,p-Xylenes [108-38-3/106-42-3]^	1.3	U	ug/L	1	1.3	2.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
Methylene chloride [75-09-2]^	2.5	U	ug/L	1	2.5	5.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
Methyl-tert-Butyl Ether [1634-04-4]^	0.60	U	ug/L	1	0.60	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
Naphthalene [91-20-3]^	0.82	U	ug/L	1	0.82	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
n-Butyl Benzene [104-51-8]^	0.70	U	ug/L	1	0.70	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
n-Propyl Benzene [103-65-1]^	0.50	U	ug/L	1	0.50	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
o-Xylene [95-47-6]^	0.53	U	ug/L	1	0.53	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
sec-Butylbenzene [135-98-8]^	0.74	U	ug/L	1	0.74	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
Styrene [100-42-5]^	0.61	U	ug/L	1	0.61	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
tert-Butylbenzene [98-06-6]^	0.64	U	ug/L	1	0.64	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
Tetrachloroethene [127-18-4]^	0.76	U	ug/L	1	0.76	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
Toluene [108-88-3]^	0.72	U	ug/L	1	0.72	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
trans-1,2-Dichloroethene [156-60-5]^	0.73	U	ug/L	1	0.73	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
trans-1,3-Dichloropropene [10061-02-6]^	0.73	U	ug/L	1	0.73	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
Trichloroethene [79-01-6]^	0.89	U	ug/L	1	0.89	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
Trichlorofluoromethane [75-69-4]^	0.94	U	ug/L	1	0.94	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
Vinyl chloride [75-01-4]^	0.71	U	ug/L	1	0.71	1.0	1C22014	EPA 8260D	03/22/21 17:22	KG	
Xylenes (Total) [1330-20-7]^	1.3	U	ug/L	1	1.3	2.0	1C22014	EPA 8260D	03/22/21 17:22	KG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*92 %*	*41-142*	*1C22014*	*EPA 8260D*	*03/22/21 17:22*	*KG*	
Dibromofluoromethane	*47*	*1*	*50.0*	*94 %*	*53-146*	*1C22014*	*EPA 8260D*	*03/22/21 17:22*	*KG*	
Toluene-d8	*48*	*1*	*50.0*	*97 %*	*41-146*	*1C22014*	*EPA 8260D*	*03/22/21 17:22*	*KG*	

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8]^	0.020	U	ug/L	1	0.020	0.050	1C17007	EPA 8081B	03/23/21 16:34	JJB	
4,4'-DDE [72-55-9]^	0.036	U	ug/L	1	0.036	0.050	1C17007	EPA 8081B	03/23/21 16:34	JJB	
4,4'-DDT [50-29-3]^	0.025	U	ug/L	1	0.025	0.050	1C17007	EPA 8081B	03/23/21 16:34	JJB	
Aldrin [309-00-2]^	0.032	U	ug/L	1	0.032	0.050	1C17007	EPA 8081B	03/23/21 16:34	JJB	
alpha-BHC [319-84-6]^	0.026	U	ug/L	1	0.026	0.050	1C17007	EPA 8081B	03/23/21 16:34	JJB	
beta-BHC [319-85-7]^	0.036	U	ug/L	1	0.036	0.050	1C17007	EPA 8081B	03/23/21 16:34	JJB	
Chlordane (tech) [12789-03-6]^	0.36	U	ug/L	1	0.36	0.50	1C17007	EPA 8081B	03/23/21 16:34	JJB	
Chlordane-alpha [5103-71-9]^	0.022	U	ug/L	1	0.022	0.050	1C17007	EPA 8081B	03/23/21 16:34	JJB	
Chlordane-gamma [5103-74-2]^	0.024	U	ug/L	1	0.024	0.050	1C17007	EPA 8081B	03/23/21 16:34	JJB	
delta-BHC [319-86-8]^	0.019	U	ug/L	1	0.019	0.050	1C17007	EPA 8081B	03/23/21 16:34	JJB	
Dieldrin [60-57-1]^	0.017	U	ug/L	1	0.017	0.050	1C17007	EPA 8081B	03/23/21 16:34	JJB	
Endosulfan I [959-98-8]^	0.016	U	ug/L	1	0.016	0.050	1C17007	EPA 8081B	03/23/21 16:34	JJB	
Endosulfan II [33213-65-9]^	0.017	U	ug/L	1	0.017	0.050	1C17007	EPA 8081B	03/23/21 16:34	JJB	
Endosulfan sulfate [1031-07-8]^	0.020	U	ug/L	1	0.020	0.050	1C17007	EPA 8081B	03/23/21 16:34	JJB	
Endrin [72-20-8]^	0.014	U	ug/L	1	0.014	0.050	1C17007	EPA 8081B	03/23/21 16:34	JJB	
Endrin aldehyde [7421-93-4]^	0.020	U	ug/L	1	0.020	0.050	1C17007	EPA 8081B	03/23/21 16:34	JJB	
Endrin ketone [53494-70-5]^	0.017	U	ug/L	1	0.017	0.050	1C17007	EPA 8081B	03/23/21 16:34	JJB	

ANALYTICAL RESULTS

Description: GW-4
Matrix: Ground Water
Project: Pelican Coast Soil and Groundwater Sampling

Lab Sample ID: AE02130-05
Sampled: 03/16/21 12:44
Sampled By: Brandon Selph

Received: 03/17/21 11:00
Work Order: AE02130

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
gamma-BHC [58-89-9]^	0.021	U	ug/L	1	0.021	0.050	1C17007	EPA 8081B	03/23/21 16:34	JJB	
Heptachlor [76-44-8]^	0.026	U	ug/L	1	0.026	0.050	1C17007	EPA 8081B	03/23/21 16:34	JJB	
Heptachlor epoxide [1024-57-3]^	0.018	U	ug/L	1	0.018	0.050	1C17007	EPA 8081B	03/23/21 16:34	JJB	
Isodrin [465-73-6]^	0.030	U	ug/L	1	0.030	0.050	1C17007	EPA 8081B	03/23/21 16:34	JJB	
Methoxychlor [72-43-5]^	0.020	U	ug/L	1	0.020	0.050	1C17007	EPA 8081B	03/23/21 16:34	JJB	
Mirex [2385-85-5]^	0.034	U	ug/L	1	0.034	0.050	1C17007	EPA 8081B	03/23/21 16:34	JJB	
Toxaphene [8001-35-2]^	0.48	U	ug/L	1	0.48	0.50	1C17007	EPA 8081B	03/23/21 16:34	JJB	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.87*	*1*	*1.00*	*87 %*	*38-142*	*1C17007*	*EPA 8081B*	*03/23/21 16:34*	*JJB*	
Decachlorobiphenyl	*0.80*	*1*	*1.00*	*80 %*	*34-159*	*1C17007*	*EPA 8081B*	*03/23/21 16:34*	*JJB*	

ANALYTICAL RESULTS

Description: GW-5 **Lab Sample ID:** AE02130-06 **Received:** 03/17/21 11:00

Matrix: Ground Water **Sampled:** 03/16/21 13:36 **Work Order:** AE02130

Project: Pelican Coast Soil and Groundwater Sampling **Sampled By:** Brandon Selph

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.61	U	ug/L	1	0.61	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
1,1,1-Trichloroethane [71-55-6]^	0.80	U	ug/L	1	0.80	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
1,1,2,2-Tetrachloroethane [79-34-5]^	0.54	U	ug/L	1	0.54	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
1,1,2-Trichloroethane [79-00-5]^	0.76	U	ug/L	1	0.76	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
1,1-Dichloroethane [75-34-3]^	0.62	U	ug/L	1	0.62	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
1,1-Dichloroethene [75-35-4]^	0.94	U	ug/L	1	0.94	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
1,1-Dichloropropene [563-58-6]^	0.74	U	ug/L	1	0.74	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
1,2,3-Trichlorobenzene [87-61-6]^	0.86	U	ug/L	1	0.86	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
1,2,3-Trichloropropane [96-18-4]^	0.64	U	ug/L	1	0.64	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
1,2,4-Trichlorobenzene [120-82-1]^	0.70	U	ug/L	1	0.70	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
1,2,4-Trimethylbenzene [95-63-6]^	0.69	U	ug/L	1	0.69	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
1,2-Dibromo-3-chloropropane [96-12-8]^	0.96	U	ug/L	1	0.96	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
1,2-Dibromoethane [106-93-4]^	0.78	U	ug/L	1	0.78	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
1,2-Dichlorobenzene [95-50-1]^	0.73	U	ug/L	1	0.73	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
1,2-Dichloroethane [107-06-2]^	0.63	U	ug/L	1	0.63	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
1,2-Dichloropropane [78-87-5]^	0.80	U	ug/L	1	0.80	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
1,3,5-Trimethylbenzene [108-67-8]^	0.58	U	ug/L	1	0.58	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
1,3-Dichlorobenzene [541-73-1]^	0.77	U	ug/L	1	0.77	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
1,3-Dichloropropane [142-28-9]^	0.60	U	ug/L	1	0.60	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
1,4-Dichlorobenzene [106-46-7]^	0.76	U	ug/L	1	0.76	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
2,2-Dichloropropane [594-20-7]^	0.66	U	ug/L	1	0.66	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
2-Butanone [78-93-3]^	4.5	U	ug/L	1	4.5	5.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
2-Chloroethyl Vinyl Ether [110-75-8]^	2.5	U	ug/L	1	2.5	100	1C22014	EPA 8260D	03/22/21 17:51	KG	
2-Chlorotoluene [95-49-8]^	0.68	U	ug/L	1	0.68	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
2-Hexanone [591-78-6]^	2.5	U	ug/L	1	2.5	5.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
4-Chlorotoluene [106-43-4]^	0.65	U	ug/L	1	0.65	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
4-Isopropyltoluene [99-87-6]^	0.80	U	ug/L	1	0.80	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
4-Methyl-2-pentanone [108-10-1]^	2.5	U	ug/L	1	2.5	5.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
Acetone [67-64-1]^	10	U	ug/L	1	10	20	1C22014	EPA 8260D	03/22/21 17:51	KG	
Benzene [71-43-2]^	0.71	U	ug/L	1	0.71	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
Bromobenzene [108-86-1]^	0.77	U	ug/L	1	0.77	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
Bromochloromethane [74-97-5]^	0.94	U	ug/L	1	0.94	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
Bromodichloromethane [75-27-4]^	0.52	U	ug/L	1	0.52	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
Bromoform [75-25-2]^	0.75	U	ug/L	1	0.75	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	QV-01
Bromomethane [74-83-9]^	0.95	U	ug/L	1	0.95	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
Carbon disulfide [75-15-0]^	2.5	U	ug/L	1	2.5	5.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
Carbon tetrachloride [56-23-5]^	0.94	U	ug/L	1	0.94	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
Chlorobenzene [108-90-7]^	0.72	U	ug/L	1	0.72	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
Chloroethane [75-00-3]^	0.98	U	ug/L	1	0.98	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
Chloroform [67-66-3]^	0.80	U	ug/L	1	0.80	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
Chloromethane [74-87-3]^	0.82	U	ug/L	1	0.82	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
cis-1,2-Dichloroethene [156-59-2]^	0.53	U	ug/L	1	0.53	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
cis-1,3-Dichloropropene [10061-01-5]^	0.59	U	ug/L	1	0.59	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
Dibromochloromethane [124-48-1]^	0.50	U	ug/L	1	0.50	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
Dibromomethane [74-95-3]^	0.84	U	ug/L	1	0.84	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
Dichlorodifluoromethane [75-71-8]^	0.74	U	ug/L	1	0.74	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	

ANALYTICAL RESULTS

Description: GW-5 **Lab Sample ID:** AE02130-06 **Received:** 03/17/21 11:00

Matrix: Ground Water **Sampled:** 03/16/21 13:36 **Work Order:** AE02130

Project: Pelican Coast Soil and Groundwater Sampling **Sampled By:** Brandon Selph

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ethylbenzene [100-41-4]^	0.69	U	ug/L	1	0.69	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
Hexachlorobutadiene [87-68-3]^	0.70	U	ug/L	1	0.70	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
Isopropylbenzene [98-82-8]^	0.67	U	ug/L	1	0.67	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
m,p-Xylenes [108-38-3/106-42-3]^	1.3	U	ug/L	1	1.3	2.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
Methylene chloride [75-09-2]^	2.5	U	ug/L	1	2.5	5.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
Methyl-tert-Butyl Ether [1634-04-4]^	0.60	U	ug/L	1	0.60	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
Naphthalene [91-20-3]^	0.82	U	ug/L	1	0.82	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
n-Butyl Benzene [104-51-8]^	0.70	U	ug/L	1	0.70	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
n-Propyl Benzene [103-65-1]^	0.50	U	ug/L	1	0.50	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
o-Xylene [95-47-6]^	0.53	U	ug/L	1	0.53	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
sec-Butylbenzene [135-98-8]^	0.74	U	ug/L	1	0.74	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
Styrene [100-42-5]^	0.61	U	ug/L	1	0.61	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
tert-Butylbenzene [98-06-6]^	0.64	U	ug/L	1	0.64	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
Tetrachloroethene [127-18-4]^	0.76	U	ug/L	1	0.76	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
Toluene [108-88-3]^	0.72	U	ug/L	1	0.72	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
trans-1,2-Dichloroethene [156-60-5]^	0.73	U	ug/L	1	0.73	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
trans-1,3-Dichloropropene [10061-02-6]^	0.73	U	ug/L	1	0.73	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
Trichloroethene [79-01-6]^	0.89	U	ug/L	1	0.89	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
Trichlorofluoromethane [75-69-4]^	0.94	U	ug/L	1	0.94	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
Vinyl chloride [75-01-4]^	0.71	U	ug/L	1	0.71	1.0	1C22014	EPA 8260D	03/22/21 17:51	KG	
Xylenes (Total) [1330-20-7]^	1.3	U	ug/L	1	1.3	2.0	1C22014	EPA 8260D	03/22/21 17:51	KG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*93 %*	*41-142*	*1C22014*	*EPA 8260D*	*03/22/21 17:51*	*KG*	
Dibromofluoromethane	*48*	*1*	*50.0*	*95 %*	*53-146*	*1C22014*	*EPA 8260D*	*03/22/21 17:51*	*KG*	
Toluene-d8	*48*	*1*	*50.0*	*96 %*	*41-146*	*1C22014*	*EPA 8260D*	*03/22/21 17:51*	*KG*	

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8]^	0.020	U	ug/L	1	0.020	0.050	1C17007	EPA 8081B	03/23/21 16:47	JJB	
4,4'-DDE [72-55-9]^	0.036	U	ug/L	1	0.036	0.050	1C17007	EPA 8081B	03/23/21 16:47	JJB	
4,4'-DDT [50-29-3]^	0.025	U	ug/L	1	0.025	0.050	1C17007	EPA 8081B	03/23/21 16:47	JJB	
Aldrin [309-00-2]^	0.032	U	ug/L	1	0.032	0.050	1C17007	EPA 8081B	03/23/21 16:47	JJB	
alpha-BHC [319-84-6]^	0.026	U	ug/L	1	0.026	0.050	1C17007	EPA 8081B	03/23/21 16:47	JJB	
beta-BHC [319-85-7]^	0.036	U	ug/L	1	0.036	0.050	1C17007	EPA 8081B	03/23/21 16:47	JJB	
Chlordane (tech) [12789-03-6]^	0.36	U	ug/L	1	0.36	0.50	1C17007	EPA 8081B	03/23/21 16:47	JJB	
Chlordane-alpha [5103-71-9]^	0.022	U	ug/L	1	0.022	0.050	1C17007	EPA 8081B	03/23/21 16:47	JJB	
Chlordane-gamma [5103-74-2]^	0.024	U	ug/L	1	0.024	0.050	1C17007	EPA 8081B	03/23/21 16:47	JJB	
delta-BHC [319-86-8]^	0.019	U	ug/L	1	0.019	0.050	1C17007	EPA 8081B	03/23/21 16:47	JJB	
Dieldrin [60-57-1]^	0.017	U	ug/L	1	0.017	0.050	1C17007	EPA 8081B	03/23/21 16:47	JJB	
Endosulfan I [959-98-8]^	0.016	U	ug/L	1	0.016	0.050	1C17007	EPA 8081B	03/23/21 16:47	JJB	
Endosulfan II [33213-65-9]^	0.017	U	ug/L	1	0.017	0.050	1C17007	EPA 8081B	03/23/21 16:47	JJB	
Endosulfan sulfate [1031-07-8]^	0.020	U	ug/L	1	0.020	0.050	1C17007	EPA 8081B	03/23/21 16:47	JJB	
Endrin [72-20-8]^	0.014	U	ug/L	1	0.014	0.050	1C17007	EPA 8081B	03/23/21 16:47	JJB	
Endrin aldehyde [7421-93-4]^	0.020	U	ug/L	1	0.020	0.050	1C17007	EPA 8081B	03/23/21 16:47	JJB	
Endrin ketone [53494-70-5]^	0.017	U	ug/L	1	0.017	0.050	1C17007	EPA 8081B	03/23/21 16:47	JJB	

ANALYTICAL RESULTS

Description: GW-5 **Lab Sample ID:** AE02130-06 **Received:** 03/17/21 11:00

Matrix: Ground Water **Sampled:** 03/16/21 13:36 **Work Order:** AE02130

Project: Pelican Coast Soil and Groundwater Sampling **Sampled By:** Brandon Selph

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
gamma-BHC [58-89-9]^	0.021	U	ug/L	1	0.021	0.050	1C17007	EPA 8081B	03/23/21 16:47	JJB	
Heptachlor [76-44-8]^	0.026	U	ug/L	1	0.026	0.050	1C17007	EPA 8081B	03/23/21 16:47	JJB	
Heptachlor epoxide [1024-57-3]^	0.018	U	ug/L	1	0.018	0.050	1C17007	EPA 8081B	03/23/21 16:47	JJB	
Isodrin [465-73-6]^	0.030	U	ug/L	1	0.030	0.050	1C17007	EPA 8081B	03/23/21 16:47	JJB	
Methoxychlor [72-43-5]^	0.020	U	ug/L	1	0.020	0.050	1C17007	EPA 8081B	03/23/21 16:47	JJB	
Mirex [2385-85-5]^	0.034	U	ug/L	1	0.034	0.050	1C17007	EPA 8081B	03/23/21 16:47	JJB	
Toxaphene [8001-35-2]^	0.48	U	ug/L	1	0.48	0.50	1C17007	EPA 8081B	03/23/21 16:47	JJB	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.72*	*1*	*1.00*	*72 %*	*38-142*	*1C17007*	*EPA 8081B*	*03/23/21 16:47*	*JJB*	
Decachlorobiphenyl	*0.71*	*1*	*1.00*	*71 %*	*34-159*	*1C17007*	*EPA 8081B*	*03/23/21 16:47*	*JJB*	

ANALYTICAL RESULTS

Description: GW6 **Lab Sample ID:** AE02130-07 **Received:** 03/17/21 11:00

Matrix: Ground Water **Sampled:** 03/16/21 14:23 **Work Order:** AE02130

Project: Pelican Coast Soil and Groundwater Sampling **Sampled By:** Brandon Selph

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.61	U	ug/L	1	0.61	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
1,1,1-Trichloroethane [71-55-6]^	0.80	U	ug/L	1	0.80	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
1,1,2,2-Tetrachloroethane [79-34-5]^	0.54	U	ug/L	1	0.54	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
1,1,2-Trichloroethane [79-00-5]^	0.76	U	ug/L	1	0.76	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
1,1-Dichloroethane [75-34-3]^	0.62	U	ug/L	1	0.62	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
1,1-Dichloroethene [75-35-4]^	0.94	U	ug/L	1	0.94	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
1,1-Dichloropropene [563-58-6]^	0.74	U	ug/L	1	0.74	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
1,2,3-Trichlorobenzene [87-61-6]^	0.86	U	ug/L	1	0.86	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
1,2,3-Trichloropropane [96-18-4]^	0.64	U	ug/L	1	0.64	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
1,2,4-Trichlorobenzene [120-82-1]^	0.70	U	ug/L	1	0.70	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
1,2,4-Trimethylbenzene [95-63-6]^	0.69	U	ug/L	1	0.69	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
1,2-Dibromo-3-chloropropane [96-12-8]^	0.96	U	ug/L	1	0.96	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
1,2-Dibromoethane [106-93-4]^	0.78	U	ug/L	1	0.78	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
1,2-Dichlorobenzene [95-50-1]^	0.73	U	ug/L	1	0.73	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
1,2-Dichloroethane [107-06-2]^	0.63	U	ug/L	1	0.63	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
1,2-Dichloropropane [78-87-5]^	0.80	U	ug/L	1	0.80	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
1,3,5-Trimethylbenzene [108-67-8]^	0.58	U	ug/L	1	0.58	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
1,3-Dichlorobenzene [541-73-1]^	0.77	U	ug/L	1	0.77	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
1,3-Dichloropropane [142-28-9]^	0.60	U	ug/L	1	0.60	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
1,4-Dichlorobenzene [106-46-7]^	0.76	U	ug/L	1	0.76	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
2,2-Dichloropropane [594-20-7]^	0.66	U	ug/L	1	0.66	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
2-Butanone [78-93-3]^	4.5	U	ug/L	1	4.5	5.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
2-Chloroethyl Vinyl Ether [110-75-8]^	2.5	U	ug/L	1	2.5	100	1C22014	EPA 8260D	03/22/21 18:19	KG	
2-Chlorotoluene [95-49-8]^	0.68	U	ug/L	1	0.68	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
2-Hexanone [591-78-6]^	2.5	U	ug/L	1	2.5	5.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
4-Chlorotoluene [106-43-4]^	0.65	U	ug/L	1	0.65	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
4-Isopropyltoluene [99-87-6]^	0.80	U	ug/L	1	0.80	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
4-Methyl-2-pentanone [108-10-1]^	2.5	U	ug/L	1	2.5	5.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
Acetone [67-64-1]^	10	U	ug/L	1	10	20	1C22014	EPA 8260D	03/22/21 18:19	KG	
Benzene [71-43-2]^	0.71	U	ug/L	1	0.71	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
Bromobenzene [108-86-1]^	0.77	U	ug/L	1	0.77	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
Bromochloromethane [74-97-5]^	0.94	U	ug/L	1	0.94	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
Bromodichloromethane [75-27-4]^	0.52	U	ug/L	1	0.52	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
Bromoform [75-25-2]^	0.75	U	ug/L	1	0.75	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	QV-01
Bromomethane [74-83-9]^	0.95	U	ug/L	1	0.95	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
Carbon disulfide [75-15-0]^	2.5	U	ug/L	1	2.5	5.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
Carbon tetrachloride [56-23-5]^	0.94	U	ug/L	1	0.94	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
Chlorobenzene [108-90-7]^	0.72	U	ug/L	1	0.72	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
Chloroethane [75-00-3]^	0.98	U	ug/L	1	0.98	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
Chloroform [67-66-3]^	0.80	U	ug/L	1	0.80	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
Chloromethane [74-87-3]^	0.82	U	ug/L	1	0.82	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
cis-1,2-Dichloroethene [156-59-2]^	0.53	U	ug/L	1	0.53	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
cis-1,3-Dichloropropene [10061-01-5]^	0.59	U	ug/L	1	0.59	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
Dibromochloromethane [124-48-1]^	0.50	U	ug/L	1	0.50	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
Dibromomethane [74-95-3]^	0.84	U	ug/L	1	0.84	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
Dichlorodifluoromethane [75-71-8]^	0.74	U	ug/L	1	0.74	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	

ANALYTICAL RESULTS

Description: GW6 **Lab Sample ID:** AE02130-07 **Received:** 03/17/21 11:00

Matrix: Ground Water **Sampled:** 03/16/21 14:23 **Work Order:** AE02130

Project: Pelican Coast Soil and Groundwater Sampling **Sampled By:** Brandon Selph

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ethylbenzene [100-41-4]^	0.69	U	ug/L	1	0.69	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
Hexachlorobutadiene [87-68-3]^	0.70	U	ug/L	1	0.70	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
Isopropylbenzene [98-82-8]^	0.67	U	ug/L	1	0.67	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
m,p-Xylenes [108-38-3/106-42-3]^	1.3	U	ug/L	1	1.3	2.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
Methylene chloride [75-09-2]^	2.5	U	ug/L	1	2.5	5.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
Methyl-tert-Butyl Ether [1634-04-4]^	0.60	U	ug/L	1	0.60	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
Naphthalene [91-20-3]^	0.82	U	ug/L	1	0.82	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
n-Butyl Benzene [104-51-8]^	0.70	U	ug/L	1	0.70	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
n-Propyl Benzene [103-65-1]^	0.50	U	ug/L	1	0.50	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
o-Xylene [95-47-6]^	0.53	U	ug/L	1	0.53	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
sec-Butylbenzene [135-98-8]^	0.74	U	ug/L	1	0.74	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
Styrene [100-42-5]^	0.61	U	ug/L	1	0.61	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
tert-Butylbenzene [98-06-6]^	0.64	U	ug/L	1	0.64	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
Tetrachloroethene [127-18-4]^	0.76	U	ug/L	1	0.76	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
Toluene [108-88-3]^	0.72	U	ug/L	1	0.72	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
trans-1,2-Dichloroethene [156-60-5]^	0.73	U	ug/L	1	0.73	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
trans-1,3-Dichloropropene [10061-02-6]^	0.73	U	ug/L	1	0.73	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
Trichloroethene [79-01-6]^	0.89	U	ug/L	1	0.89	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
Trichlorofluoromethane [75-69-4]^	0.94	U	ug/L	1	0.94	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
Vinyl chloride [75-01-4]^	0.71	U	ug/L	1	0.71	1.0	1C22014	EPA 8260D	03/22/21 18:19	KG	
Xylenes (Total) [1330-20-7]^	1.3	U	ug/L	1	1.3	2.0	1C22014	EPA 8260D	03/22/21 18:19	KG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*94 %*	*41-142*	*1C22014*	*EPA 8260D*	*03/22/21 18:19*	*KG*	
Dibromofluoromethane	*48*	*1*	*50.0*	*97 %*	*53-146*	*1C22014*	*EPA 8260D*	*03/22/21 18:19*	*KG*	
Toluene-d8	*47*	*1*	*50.0*	*95 %*	*41-146*	*1C22014*	*EPA 8260D*	*03/22/21 18:19*	*KG*	

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8]^	0.020	U	ug/L	1	0.020	0.050	1C17007	EPA 8081B	03/23/21 16:59	JJB	
4,4'-DDE [72-55-9]^	0.036	U	ug/L	1	0.036	0.050	1C17007	EPA 8081B	03/23/21 16:59	JJB	
4,4'-DDT [50-29-3]^	0.025	U	ug/L	1	0.025	0.050	1C17007	EPA 8081B	03/23/21 16:59	JJB	
Aldrin [309-00-2]^	0.032	U	ug/L	1	0.032	0.050	1C17007	EPA 8081B	03/23/21 16:59	JJB	
alpha-BHC [319-84-6]^	0.026	U	ug/L	1	0.026	0.050	1C17007	EPA 8081B	03/23/21 16:59	JJB	
beta-BHC [319-85-7]^	0.036	U	ug/L	1	0.036	0.050	1C17007	EPA 8081B	03/23/21 16:59	JJB	
Chlordane (tech) [12789-03-6]^	0.36	U	ug/L	1	0.36	0.50	1C17007	EPA 8081B	03/23/21 16:59	JJB	
Chlordane-alpha [5103-71-9]^	0.022	U	ug/L	1	0.022	0.050	1C17007	EPA 8081B	03/23/21 16:59	JJB	
Chlordane-gamma [5103-74-2]^	0.024	U	ug/L	1	0.024	0.050	1C17007	EPA 8081B	03/23/21 16:59	JJB	
delta-BHC [319-86-8]^	0.019	U	ug/L	1	0.019	0.050	1C17007	EPA 8081B	03/23/21 16:59	JJB	
Dieldrin [60-57-1]^	0.017	U	ug/L	1	0.017	0.050	1C17007	EPA 8081B	03/23/21 16:59	JJB	
Endosulfan I [959-98-8]^	0.016	U	ug/L	1	0.016	0.050	1C17007	EPA 8081B	03/23/21 16:59	JJB	
Endosulfan II [33213-65-9]^	0.017	U	ug/L	1	0.017	0.050	1C17007	EPA 8081B	03/23/21 16:59	JJB	
Endosulfan sulfate [1031-07-8]^	0.020	U	ug/L	1	0.020	0.050	1C17007	EPA 8081B	03/23/21 16:59	JJB	
Endrin [72-20-8]^	0.014	U	ug/L	1	0.014	0.050	1C17007	EPA 8081B	03/23/21 16:59	JJB	
Endrin aldehyde [7421-93-4]^	0.020	U	ug/L	1	0.020	0.050	1C17007	EPA 8081B	03/23/21 16:59	JJB	
Endrin ketone [53494-70-5]^	0.017	U	ug/L	1	0.017	0.050	1C17007	EPA 8081B	03/23/21 16:59	JJB	

ANALYTICAL RESULTS

Description: GW6 **Lab Sample ID:** AE02130-07 **Received:** 03/17/21 11:00

Matrix: Ground Water **Sampled:** 03/16/21 14:23 **Work Order:** AE02130

Project: Pelican Coast Soil and Groundwater Sampling **Sampled By:** Brandon Selph

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
gamma-BHC [58-89-9]^	0.021	U	ug/L	1	0.021	0.050	1C17007	EPA 8081B	03/23/21 16:59	JJB	
Heptachlor [76-44-8]^	0.026	U	ug/L	1	0.026	0.050	1C17007	EPA 8081B	03/23/21 16:59	JJB	
Heptachlor epoxide [1024-57-3]^	0.018	U	ug/L	1	0.018	0.050	1C17007	EPA 8081B	03/23/21 16:59	JJB	
Isodrin [465-73-6]^	0.030	U	ug/L	1	0.030	0.050	1C17007	EPA 8081B	03/23/21 16:59	JJB	
Methoxychlor [72-43-5]^	0.020	U	ug/L	1	0.020	0.050	1C17007	EPA 8081B	03/23/21 16:59	JJB	
Mirex [2385-85-5]^	0.034	U	ug/L	1	0.034	0.050	1C17007	EPA 8081B	03/23/21 16:59	JJB	
Toxaphene [8001-35-2]^	0.48	U	ug/L	1	0.48	0.50	1C17007	EPA 8081B	03/23/21 16:59	JJB	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.67*	*1*	*1.00*	*67 %*	*38-142*	*1C17007*	*EPA 8081B*	*03/23/21 16:59*	*JJB*	
Decachlorobiphenyl	*0.80*	*1*	*1.00*	*80 %*	*34-159*	*1C17007*	*EPA 8081B*	*03/23/21 16:59*	*JJB*	

ANALYTICAL RESULTS

Description: GW-7 **Lab Sample ID:** AE02130-08 **Received:** 03/17/21 11:00

Matrix: Ground Water **Sampled:** 03/16/21 15:49 **Work Order:** AE02130

Project: Pelican Coast Soil and Groundwater Sampling **Sampled By:** Brandon Selph

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.61	U	ug/L	1	0.61	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
1,1,1-Trichloroethane [71-55-6]^	0.80	U	ug/L	1	0.80	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
1,1,2,2-Tetrachloroethane [79-34-5]^	0.54	U	ug/L	1	0.54	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
1,1,2-Trichloroethane [79-00-5]^	0.76	U	ug/L	1	0.76	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
1,1-Dichloroethane [75-34-3]^	0.62	U	ug/L	1	0.62	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
1,1-Dichloroethene [75-35-4]^	0.94	U	ug/L	1	0.94	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
1,1-Dichloropropene [563-58-6]^	0.74	U	ug/L	1	0.74	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
1,2,3-Trichlorobenzene [87-61-6]^	0.86	U	ug/L	1	0.86	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
1,2,3-Trichloropropane [96-18-4]^	0.64	U	ug/L	1	0.64	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
1,2,4-Trichlorobenzene [120-82-1]^	0.70	U	ug/L	1	0.70	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
1,2,4-Trimethylbenzene [95-63-6]^	0.69	U	ug/L	1	0.69	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
1,2-Dibromo-3-chloropropane [96-12-8]^	0.96	U	ug/L	1	0.96	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
1,2-Dibromoethane [106-93-4]^	0.78	U	ug/L	1	0.78	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
1,2-Dichlorobenzene [95-50-1]^	0.73	U	ug/L	1	0.73	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
1,2-Dichloroethane [107-06-2]^	0.63	U	ug/L	1	0.63	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
1,2-Dichloropropane [78-87-5]^	0.80	U	ug/L	1	0.80	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
1,3,5-Trimethylbenzene [108-67-8]^	0.58	U	ug/L	1	0.58	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
1,3-Dichlorobenzene [541-73-1]^	0.77	U	ug/L	1	0.77	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
1,3-Dichloropropane [142-28-9]^	0.60	U	ug/L	1	0.60	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
1,4-Dichlorobenzene [106-46-7]^	0.76	U	ug/L	1	0.76	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
2,2-Dichloropropane [594-20-7]^	0.66	U	ug/L	1	0.66	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
2-Butanone [78-93-3]^	4.5	U	ug/L	1	4.5	5.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
2-Chloroethyl Vinyl Ether [110-75-8]^	2.5	U	ug/L	1	2.5	100	1C22014	EPA 8260D	03/22/21 18:48	KG	
2-Chlorotoluene [95-49-8]^	0.68	U	ug/L	1	0.68	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
2-Hexanone [591-78-6]^	2.5	U	ug/L	1	2.5	5.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
4-Chlorotoluene [106-43-4]^	0.65	U	ug/L	1	0.65	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
4-Isopropyltoluene [99-87-6]^	0.80	U	ug/L	1	0.80	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
4-Methyl-2-pentanone [108-10-1]^	2.5	U	ug/L	1	2.5	5.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
Acetone [67-64-1]^	10	U	ug/L	1	10	20	1C22014	EPA 8260D	03/22/21 18:48	KG	
Benzene [71-43-2]^	0.71	U	ug/L	1	0.71	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
Bromobenzene [108-86-1]^	0.77	U	ug/L	1	0.77	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
Bromochloromethane [74-97-5]^	0.94	U	ug/L	1	0.94	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
Bromodichloromethane [75-27-4]^	0.52	U	ug/L	1	0.52	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
Bromoform [75-25-2]^	0.75	U	ug/L	1	0.75	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	QV-01
Bromomethane [74-83-9]^	0.95	U	ug/L	1	0.95	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
Carbon disulfide [75-15-0]^	2.5	U	ug/L	1	2.5	5.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
Carbon tetrachloride [56-23-5]^	0.94	U	ug/L	1	0.94	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
Chlorobenzene [108-90-7]^	0.72	U	ug/L	1	0.72	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
Chloroethane [75-00-3]^	0.98	U	ug/L	1	0.98	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
Chloroform [67-66-3]^	0.80	U	ug/L	1	0.80	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
Chloromethane [74-87-3]^	0.82	U	ug/L	1	0.82	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
cis-1,2-Dichloroethene [156-59-2]^	0.53	U	ug/L	1	0.53	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
cis-1,3-Dichloropropene [10061-01-5]^	0.59	U	ug/L	1	0.59	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
Dibromochloromethane [124-48-1]^	0.50	U	ug/L	1	0.50	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
Dibromomethane [74-95-3]^	0.84	U	ug/L	1	0.84	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
Dichlorodifluoromethane [75-71-8]^	0.74	U	ug/L	1	0.74	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	

ANALYTICAL RESULTS

Description: GW-7 **Lab Sample ID:** AE02130-08 **Received:** 03/17/21 11:00

Matrix: Ground Water **Sampled:** 03/16/21 15:49 **Work Order:** AE02130

Project: Pelican Coast Soil and Groundwater Sampling **Sampled By:** Brandon Selph

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ethylbenzene [100-41-4]^	0.69	U	ug/L	1	0.69	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
Hexachlorobutadiene [87-68-3]^	0.70	U	ug/L	1	0.70	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
Isopropylbenzene [98-82-8]^	0.67	U	ug/L	1	0.67	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
m,p-Xylenes [108-38-3/106-42-3]^	1.3	U	ug/L	1	1.3	2.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
Methylene chloride [75-09-2]^	2.5	U	ug/L	1	2.5	5.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
Methyl-tert-Butyl Ether [1634-04-4]^	0.60	U	ug/L	1	0.60	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
Naphthalene [91-20-3]^	0.82	U	ug/L	1	0.82	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
n-Butyl Benzene [104-51-8]^	0.70	U	ug/L	1	0.70	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
n-Propyl Benzene [103-65-1]^	0.50	U	ug/L	1	0.50	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
o-Xylene [95-47-6]^	0.53	U	ug/L	1	0.53	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
sec-Butylbenzene [135-98-8]^	0.74	U	ug/L	1	0.74	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
Styrene [100-42-5]^	0.61	U	ug/L	1	0.61	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
tert-Butylbenzene [98-06-6]^	0.64	U	ug/L	1	0.64	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
Tetrachloroethene [127-18-4]^	0.76	U	ug/L	1	0.76	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
Toluene [108-88-3]^	0.72	U	ug/L	1	0.72	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
trans-1,2-Dichloroethene [156-60-5]^	0.73	U	ug/L	1	0.73	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
trans-1,3-Dichloropropene [10061-02-6]^	0.73	U	ug/L	1	0.73	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
Trichloroethene [79-01-6]^	0.89	U	ug/L	1	0.89	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
Trichlorofluoromethane [75-69-4]^	0.94	U	ug/L	1	0.94	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
Vinyl chloride [75-01-4]^	0.71	U	ug/L	1	0.71	1.0	1C22014	EPA 8260D	03/22/21 18:48	KG	
Xylenes (Total) [1330-20-7]^	1.3	U	ug/L	1	1.3	2.0	1C22014	EPA 8260D	03/22/21 18:48	KG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*92 %*	*41-142*	*1C22014*	*EPA 8260D*	*03/22/21 18:48*	*KG*	
Dibromofluoromethane	*47*	*1*	*50.0*	*94 %*	*53-146*	*1C22014*	*EPA 8260D*	*03/22/21 18:48*	*KG*	
Toluene-d8	*47*	*1*	*50.0*	*95 %*	*41-146*	*1C22014*	*EPA 8260D*	*03/22/21 18:48*	*KG*	

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8]^	0.020	U	ug/L	1	0.020	0.050	1C17007	EPA 8081B	03/23/21 17:11	JJB	
4,4'-DDE [72-55-9]^	0.036	U	ug/L	1	0.036	0.050	1C17007	EPA 8081B	03/23/21 17:11	JJB	
4,4'-DDT [50-29-3]^	0.025	U	ug/L	1	0.025	0.050	1C17007	EPA 8081B	03/23/21 17:11	JJB	
Aldrin [309-00-2]^	0.032	U	ug/L	1	0.032	0.050	1C17007	EPA 8081B	03/23/21 17:11	JJB	
alpha-BHC [319-84-6]^	0.026	U	ug/L	1	0.026	0.050	1C17007	EPA 8081B	03/23/21 17:11	JJB	
beta-BHC [319-85-7]^	0.036	U	ug/L	1	0.036	0.050	1C17007	EPA 8081B	03/23/21 17:11	JJB	
Chlordane (tech) [12789-03-6]^	0.36	U	ug/L	1	0.36	0.50	1C17007	EPA 8081B	03/23/21 17:11	JJB	
Chlordane-alpha [5103-71-9]^	0.022	U	ug/L	1	0.022	0.050	1C17007	EPA 8081B	03/23/21 17:11	JJB	
Chlordane-gamma [5103-74-2]^	0.024	U	ug/L	1	0.024	0.050	1C17007	EPA 8081B	03/23/21 17:11	JJB	
delta-BHC [319-86-8]^	0.019	U	ug/L	1	0.019	0.050	1C17007	EPA 8081B	03/23/21 17:11	JJB	
Dieldrin [60-57-1]^	0.017	U	ug/L	1	0.017	0.050	1C17007	EPA 8081B	03/23/21 17:11	JJB	
Endosulfan I [959-98-8]^	0.016	U	ug/L	1	0.016	0.050	1C17007	EPA 8081B	03/23/21 17:11	JJB	
Endosulfan II [33213-65-9]^	0.017	U	ug/L	1	0.017	0.050	1C17007	EPA 8081B	03/23/21 17:11	JJB	
Endosulfan sulfate [1031-07-8]^	0.020	U	ug/L	1	0.020	0.050	1C17007	EPA 8081B	03/23/21 17:11	JJB	
Endrin [72-20-8]^	0.014	U	ug/L	1	0.014	0.050	1C17007	EPA 8081B	03/23/21 17:11	JJB	
Endrin aldehyde [7421-93-4]^	0.020	U	ug/L	1	0.020	0.050	1C17007	EPA 8081B	03/23/21 17:11	JJB	
Endrin ketone [53494-70-5]^	0.017	U	ug/L	1	0.017	0.050	1C17007	EPA 8081B	03/23/21 17:11	JJB	

ANALYTICAL RESULTS

Description: GW-7
Matrix: Ground Water
Project: Pelican Coast Soil and Groundwater Sampling

Lab Sample ID: AE02130-08
Sampled: 03/16/21 15:49
Sampled By: Brandon Selph

Received: 03/17/21 11:00
Work Order: AE02130

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
gamma-BHC [58-89-9]^	0.021	U	ug/L	1	0.021	0.050	1C17007	EPA 8081B	03/23/21 17:11	JJB	
Heptachlor [76-44-8]^	0.026	U	ug/L	1	0.026	0.050	1C17007	EPA 8081B	03/23/21 17:11	JJB	
Heptachlor epoxide [1024-57-3]^	0.018	U	ug/L	1	0.018	0.050	1C17007	EPA 8081B	03/23/21 17:11	JJB	
Isodrin [465-73-6]^	0.030	U	ug/L	1	0.030	0.050	1C17007	EPA 8081B	03/23/21 17:11	JJB	
Methoxychlor [72-43-5]^	0.020	U	ug/L	1	0.020	0.050	1C17007	EPA 8081B	03/23/21 17:11	JJB	
Mirex [2385-85-5]^	0.034	U	ug/L	1	0.034	0.050	1C17007	EPA 8081B	03/23/21 17:11	JJB	
Toxaphene [8001-35-2]^	0.48	U	ug/L	1	0.48	0.50	1C17007	EPA 8081B	03/23/21 17:11	JJB	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.67*	*1*	*1.00*	*67 %*	*38-142*	*1C17007*	*EPA 8081B*	*03/23/21 17:11*	*JJB*	
Decachlorobiphenyl	*0.62*	*1*	*1.00*	*62 %*	*34-159*	*1C17007*	*EPA 8081B*	*03/23/21 17:11*	*JJB*	

ANALYTICAL RESULTS

Description: GW-8 **Lab Sample ID:** AE02130-09 **Received:** 03/17/21 11:00

Matrix: Ground Water **Sampled:** 03/16/21 15:16 **Work Order:** AE02130

Project: Pelican Coast Soil and Groundwater Sampling **Sampled By:** Brandon Selph

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6]^	0.61	U	ug/L	1	0.61	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
1,1,1-Trichloroethane [71-55-6]^	0.80	U	ug/L	1	0.80	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
1,1,2,2-Tetrachloroethane [79-34-5]^	0.54	U	ug/L	1	0.54	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
1,1,2-Trichloroethane [79-00-5]^	0.76	U	ug/L	1	0.76	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
1,1-Dichloroethane [75-34-3]^	0.62	U	ug/L	1	0.62	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
1,1-Dichloroethene [75-35-4]^	0.94	U	ug/L	1	0.94	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
1,1-Dichloropropene [563-58-6]^	0.74	U	ug/L	1	0.74	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
1,2,3-Trichlorobenzene [87-61-6]^	0.86	U	ug/L	1	0.86	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
1,2,3-Trichloropropane [96-18-4]^	0.64	U	ug/L	1	0.64	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
1,2,4-Trichlorobenzene [120-82-1]^	0.70	U	ug/L	1	0.70	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
1,2,4-Trimethylbenzene [95-63-6]^	0.69	U	ug/L	1	0.69	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
1,2-Dibromo-3-chloropropane [96-12-8]^	0.96	U	ug/L	1	0.96	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
1,2-Dibromoethane [106-93-4]^	0.78	U	ug/L	1	0.78	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
1,2-Dichlorobenzene [95-50-1]^	0.73	U	ug/L	1	0.73	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
1,2-Dichloroethane [107-06-2]^	0.63	U	ug/L	1	0.63	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
1,2-Dichloropropane [78-87-5]^	0.80	U	ug/L	1	0.80	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
1,3,5-Trimethylbenzene [108-67-8]^	0.58	U	ug/L	1	0.58	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
1,3-Dichlorobenzene [541-73-1]^	0.77	U	ug/L	1	0.77	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
1,3-Dichloropropane [142-28-9]^	0.60	U	ug/L	1	0.60	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
1,4-Dichlorobenzene [106-46-7]^	0.76	U	ug/L	1	0.76	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
2,2-Dichloropropane [594-20-7]^	0.66	U	ug/L	1	0.66	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
2-Butanone [78-93-3]^	4.5	U	ug/L	1	4.5	5.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
2-Chloroethyl Vinyl Ether [110-75-8]^	2.5	U	ug/L	1	2.5	100	1C22014	EPA 8260D	03/22/21 19:17	KG	
2-Chlorotoluene [95-49-8]^	0.68	U	ug/L	1	0.68	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
2-Hexanone [591-78-6]^	2.5	U	ug/L	1	2.5	5.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
4-Chlorotoluene [106-43-4]^	0.65	U	ug/L	1	0.65	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
4-Isopropyltoluene [99-87-6]^	0.80	U	ug/L	1	0.80	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
4-Methyl-2-pentanone [108-10-1]^	2.5	U	ug/L	1	2.5	5.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
Acetone [67-64-1]^	10	U	ug/L	1	10	20	1C22014	EPA 8260D	03/22/21 19:17	KG	
Benzene [71-43-2]^	0.71	U	ug/L	1	0.71	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
Bromobenzene [108-86-1]^	0.77	U	ug/L	1	0.77	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
Bromochloromethane [74-97-5]^	0.94	U	ug/L	1	0.94	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
Bromodichloromethane [75-27-4]^	0.52	U	ug/L	1	0.52	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
Bromoform [75-25-2]^	0.75	U	ug/L	1	0.75	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	QV-01
Bromomethane [74-83-9]^	0.95	U	ug/L	1	0.95	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
Carbon disulfide [75-15-0]^	2.5	U	ug/L	1	2.5	5.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
Carbon tetrachloride [56-23-5]^	0.94	U	ug/L	1	0.94	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
Chlorobenzene [108-90-7]^	0.72	U	ug/L	1	0.72	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
Chloroethane [75-00-3]^	0.98	U	ug/L	1	0.98	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
Chloroform [67-66-3]^	0.80	U	ug/L	1	0.80	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
Chloromethane [74-87-3]^	0.82	U	ug/L	1	0.82	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
cis-1,2-Dichloroethene [156-59-2]^	0.53	U	ug/L	1	0.53	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
cis-1,3-Dichloropropene [10061-01-5]^	0.59	U	ug/L	1	0.59	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
Dibromochloromethane [124-48-1]^	0.50	U	ug/L	1	0.50	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
Dibromomethane [74-95-3]^	0.84	U	ug/L	1	0.84	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
Dichlorodifluoromethane [75-71-8]^	0.74	U	ug/L	1	0.74	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	

ANALYTICAL RESULTS

Description: GW-8 **Lab Sample ID:** AE02130-09 **Received:** 03/17/21 11:00

Matrix: Ground Water **Sampled:** 03/16/21 15:16 **Work Order:** AE02130

Project: Pelican Coast Soil and Groundwater Sampling **Sampled By:** Brandon Selph

Volatile Organic Compounds by GCMS

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ethylbenzene [100-41-4]^	0.69	U	ug/L	1	0.69	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
Hexachlorobutadiene [87-68-3]^	0.70	U	ug/L	1	0.70	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
Isopropylbenzene [98-82-8]^	0.67	U	ug/L	1	0.67	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
m,p-Xylenes [108-38-3/106-42-3]^	1.3	U	ug/L	1	1.3	2.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
Methylene chloride [75-09-2]^	2.5	U	ug/L	1	2.5	5.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
Methyl-tert-Butyl Ether [1634-04-4]^	0.60	U	ug/L	1	0.60	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
Naphthalene [91-20-3]^	0.82	U	ug/L	1	0.82	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
n-Butyl Benzene [104-51-8]^	0.70	U	ug/L	1	0.70	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
n-Propyl Benzene [103-65-1]^	0.50	U	ug/L	1	0.50	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
o-Xylene [95-47-6]^	0.53	U	ug/L	1	0.53	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
sec-Butylbenzene [135-98-8]^	0.74	U	ug/L	1	0.74	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
Styrene [100-42-5]^	0.61	U	ug/L	1	0.61	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
tert-Butylbenzene [98-06-6]^	0.64	U	ug/L	1	0.64	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
Tetrachloroethene [127-18-4]^	0.76	U	ug/L	1	0.76	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
Toluene [108-88-3]^	0.72	U	ug/L	1	0.72	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
trans-1,2-Dichloroethene [156-60-5]^	0.73	U	ug/L	1	0.73	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
trans-1,3-Dichloropropene [10061-02-6]^	0.73	U	ug/L	1	0.73	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
Trichloroethene [79-01-6]^	0.89	U	ug/L	1	0.89	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
Trichlorofluoromethane [75-69-4]^	0.94	U	ug/L	1	0.94	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
Vinyl chloride [75-01-4]^	0.71	U	ug/L	1	0.71	1.0	1C22014	EPA 8260D	03/22/21 19:17	KG	
Xylenes (Total) [1330-20-7]^	1.3	U	ug/L	1	1.3	2.0	1C22014	EPA 8260D	03/22/21 19:17	KG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*94 %*	*41-142*	*1C22014*	*EPA 8260D*	*03/22/21 19:17*	*KG*	
Dibromofluoromethane	*49*	*1*	*50.0*	*98 %*	*53-146*	*1C22014*	*EPA 8260D*	*03/22/21 19:17*	*KG*	
Toluene-d8	*49*	*1*	*50.0*	*97 %*	*41-146*	*1C22014*	*EPA 8260D*	*03/22/21 19:17*	*KG*	

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8]^	0.020	U	ug/L	1	0.020	0.050	1C17007	EPA 8081B	03/23/21 17:24	JJB	
4,4'-DDE [72-55-9]^	0.036	U	ug/L	1	0.036	0.050	1C17007	EPA 8081B	03/23/21 17:24	JJB	
4,4'-DDT [50-29-3]^	0.025	U	ug/L	1	0.025	0.050	1C17007	EPA 8081B	03/23/21 17:24	JJB	
Aldrin [309-00-2]^	0.032	U	ug/L	1	0.032	0.050	1C17007	EPA 8081B	03/23/21 17:24	JJB	
alpha-BHC [319-84-6]^	0.026	U	ug/L	1	0.026	0.050	1C17007	EPA 8081B	03/23/21 17:24	JJB	
beta-BHC [319-85-7]^	0.036	U	ug/L	1	0.036	0.050	1C17007	EPA 8081B	03/23/21 17:24	JJB	
Chlordane (tech) [12789-03-6]^	0.36	U	ug/L	1	0.36	0.50	1C17007	EPA 8081B	03/23/21 17:24	JJB	
Chlordane-alpha [5103-71-9]^	0.022	U	ug/L	1	0.022	0.050	1C17007	EPA 8081B	03/23/21 17:24	JJB	
Chlordane-gamma [5103-74-2]^	0.024	U	ug/L	1	0.024	0.050	1C17007	EPA 8081B	03/23/21 17:24	JJB	
delta-BHC [319-86-8]^	0.019	U	ug/L	1	0.019	0.050	1C17007	EPA 8081B	03/23/21 17:24	JJB	
Dieldrin [60-57-1]^	0.017	U	ug/L	1	0.017	0.050	1C17007	EPA 8081B	03/23/21 17:24	JJB	
Endosulfan I [959-98-8]^	0.016	U	ug/L	1	0.016	0.050	1C17007	EPA 8081B	03/23/21 17:24	JJB	
Endosulfan II [33213-65-9]^	0.017	U	ug/L	1	0.017	0.050	1C17007	EPA 8081B	03/23/21 17:24	JJB	
Endosulfan sulfate [1031-07-8]^	0.020	U	ug/L	1	0.020	0.050	1C17007	EPA 8081B	03/23/21 17:24	JJB	
Endrin [72-20-8]^	0.014	U	ug/L	1	0.014	0.050	1C17007	EPA 8081B	03/23/21 17:24	JJB	
Endrin aldehyde [7421-93-4]^	0.020	U	ug/L	1	0.020	0.050	1C17007	EPA 8081B	03/23/21 17:24	JJB	
Endrin ketone [53494-70-5]^	0.017	U	ug/L	1	0.017	0.050	1C17007	EPA 8081B	03/23/21 17:24	JJB	

ANALYTICAL RESULTS

Description: GW-8
Matrix: Ground Water
Project: Pelican Coast Soil and Groundwater Sampling

Lab Sample ID: AE02130-09
Sampled: 03/16/21 15:16
Sampled By: Brandon Selph

Received: 03/17/21 11:00
Work Order: AE02130

Organochlorine Pesticides by GC

^ - ENCO Orlando certified analyte [NELAC E83182]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
gamma-BHC [58-89-9]^	0.021	U	ug/L	1	0.021	0.050	1C17007	EPA 8081B	03/23/21 17:24	JJB	
Heptachlor [76-44-8]^	0.026	U	ug/L	1	0.026	0.050	1C17007	EPA 8081B	03/23/21 17:24	JJB	
Heptachlor epoxide [1024-57-3]^	0.018	U	ug/L	1	0.018	0.050	1C17007	EPA 8081B	03/23/21 17:24	JJB	
Isodrin [465-73-6]^	0.030	U	ug/L	1	0.030	0.050	1C17007	EPA 8081B	03/23/21 17:24	JJB	
Methoxychlor [72-43-5]^	0.020	U	ug/L	1	0.020	0.050	1C17007	EPA 8081B	03/23/21 17:24	JJB	
Mirex [2385-85-5]^	0.034	U	ug/L	1	0.034	0.050	1C17007	EPA 8081B	03/23/21 17:24	JJB	
Toxaphene [8001-35-2]^	0.48	U	ug/L	1	0.48	0.50	1C17007	EPA 8081B	03/23/21 17:24	JJB	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.73*	*1*	*1.00*	*73 %*	*38-142*	*1C17007*	*EPA 8081B*	*03/23/21 17:24*	*JJB*	
Decachlorobiphenyl	*0.79*	*1*	*1.00*	*79 %*	*34-159*	*1C17007*	*EPA 8081B*	*03/23/21 17:24*	*JJB*	

QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 1C19004 - EPA 5030B_MS

Blank (1C19004-BLK1) Prepared: 03/19/2021 00:00 Analyzed: 03/19/2021 12:12

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.61	U	1.0	ug/L							
1,1,1-Trichloroethane	0.80	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.54	U	1.0	ug/L							
1,1,2-Trichloroethane	0.76	U	1.0	ug/L							
1,1-Dichloroethane	0.62	U	1.0	ug/L							
1,1-Dichloroethene	0.94	U	1.0	ug/L							
1,1-Dichloropropene	0.74	U	1.0	ug/L							
1,2,3-Trichlorobenzene	0.86	U	1.0	ug/L							
1,2,3-Trichloropropane	0.64	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.70	U	1.0	ug/L							
1,2,4-Trimethylbenzene	0.69	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.96	U	1.0	ug/L							
1,2-Dibromoethane	0.78	U	1.0	ug/L							
1,2-Dichlorobenzene	0.73	U	1.0	ug/L							
1,2-Dichloroethane	0.63	U	1.0	ug/L							
1,2-Dichloropropane	0.80	U	1.0	ug/L							
1,3,5-Trimethylbenzene	0.58	U	1.0	ug/L							
1,3-Dichlorobenzene	0.77	U	1.0	ug/L							
1,3-Dichloropropane	0.60	U	1.0	ug/L							
1,4-Dichlorobenzene	0.76	U	1.0	ug/L							
2,2-Dichloropropane	0.66	U	1.0	ug/L							
2-Butanone	4.5	U	5.0	ug/L							
2-Chloroethyl Vinyl Ether	2.5	U	250	ug/L							
2-Chlorotoluene	0.68	U	1.0	ug/L							
2-Hexanone	2.5	U	5.0	ug/L							
4-Chlorotoluene	0.65	U	1.0	ug/L							
4-Isopropyltoluene	0.80	U	1.0	ug/L							
4-Methyl-2-pentanone	2.5	U	5.0	ug/L							
Acetone	10	U	20	ug/L							
Benzene	0.71	U	1.0	ug/L							
Bromobenzene	0.77	U	1.0	ug/L							
Bromochloromethane	0.94	U	1.0	ug/L							
Bromodichloromethane	0.52	U	1.0	ug/L							
Bromoform	0.75	U	1.0	ug/L							
Bromomethane	0.95	U	1.0	ug/L							
Carbon disulfide	2.5	U	5.0	ug/L							
Carbon tetrachloride	0.94	U	1.0	ug/L							
Chlorobenzene	0.72	U	1.0	ug/L							
Chloroethane	0.98	U	1.0	ug/L							
Chloroform	0.80	U	1.0	ug/L							
Chloromethane	0.82	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.53	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.59	U	1.0	ug/L							
Dibromochloromethane	0.50	U	1.0	ug/L							
Dibromomethane	0.84	U	1.0	ug/L							
Dichlorodifluoromethane	0.74	U	1.0	ug/L							
Ethylbenzene	0.69	U	1.0	ug/L							
Hexachlorobutadiene	0.70	U	1.0	ug/L							
Isopropylbenzene	0.67	U	1.0	ug/L							

QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 1C19004 - EPA 5030B_MS - Continued

Blank (1C19004-BLK1) Continued Prepared: 03/19/2021 00:00 Analyzed: 03/19/2021 12:12

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
m,p-Xylenes	1.3	U	2.0	ug/L							
Methylene chloride	2.5	U	5.0	ug/L							
Methyl-tert-Butyl Ether	0.60	U	1.0	ug/L							
Naphthalene	0.82	U	1.0	ug/L							
n-Butyl Benzene	0.70	U	1.0	ug/L							
n-Propyl Benzene	0.50	U	1.0	ug/L							
o-Xylene	0.53	U	1.0	ug/L							
sec-Butylbenzene	0.74	U	1.0	ug/L							
Styrene	0.61	U	1.0	ug/L							
tert-Butylbenzene	0.64	U	1.0	ug/L							
Tetrachloroethene	0.76	U	1.0	ug/L							
Toluene	0.72	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.73	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.73	U	1.0	ug/L							
Trichloroethene	0.89	U	1.0	ug/L							
Trichlorofluoromethane	0.94	U	1.0	ug/L							
Vinyl chloride	0.71	U	1.0	ug/L							
Xylenes (Total)	1.3	U	2.0	ug/L							
4-Bromofluorobenzene	*43*			*ug/L*	*50.0*		*87*	*41-142*			
Dibromofluoromethane	*58*			*ug/L*	*50.0*		*117*	*53-146*			
Toluene-d8	*54*			*ug/L*	*50.0*		*107*	*41-146*			

LCS (1C19004-BS1) Prepared: 03/19/2021 00:00 Analyzed: 03/19/2021 08:45

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0		109	47-139			
Benzene	23		1.0	ug/L	20.0		116	56-136			
Chlorobenzene	21		1.0	ug/L	20.0		105	51-139			
Toluene	21		1.0	ug/L	20.0		104	64-131			
Trichloroethene	23		1.0	ug/L	20.0		115	62-135			
4-Bromofluorobenzene	*46*			*ug/L*	*50.0*		*91*	*41-142*			
Dibromofluoromethane	*58*			*ug/L*	*50.0*		*116*	*53-146*			
Toluene-d8	*55*			*ug/L*	*50.0*		*110*	*41-146*			

Matrix Spike (1C19004-MS1) Prepared: 03/19/2021 00:00 Analyzed: 03/19/2021 09:21

Source: AE01201-03

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	25		1.0	ug/L	20.0	0.94 U	124	47-139			
Benzene	26		1.0	ug/L	20.0	0.71 U	128	56-136			
Chlorobenzene	23		1.0	ug/L	20.0	0.72 U	113	51-139			
Toluene	23		1.0	ug/L	20.0	0.72 U	115	64-131			
Trichloroethene	25		1.0	ug/L	20.0	0.89 U	127	62-135			
4-Bromofluorobenzene	*46*			*ug/L*	*50.0*		*92*	*41-142*			
Dibromofluoromethane	*57*			*ug/L*	*50.0*		*115*	*53-146*			
Toluene-d8	*55*			*ug/L*	*50.0*		*110*	*41-146*			

QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 1C19004 - EPA 5030B_MS - Continued

Matrix Spike Dup (1C19004-MSD1) Prepared: 03/19/2021 00:00 Analyzed: 03/19/2021 09:49

Source: AE01201-03

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	24		1.0	ug/L	20.0	0.94 U	119	47-139	4	16	
Benzene	25		1.0	ug/L	20.0	0.71 U	125	56-136	3	14	
Chlorobenzene	22		1.0	ug/L	20.0	0.72 U	109	51-139	3	13	
Toluene	22		1.0	ug/L	20.0	0.72 U	112	64-131	3	16	
Trichloroethene	24		1.0	ug/L	20.0	0.89 U	121	62-135	5	20	
4-Bromofluorobenzene	*45*			*ug/L*	*50.0*		*91*	*41-142*			
Dibromofluoromethane	*58*			*ug/L*	*50.0*		*116*	*53-146*			
Toluene-d8	*55*			*ug/L*	*50.0*		*110*	*41-146*			

Batch 1C22014 - EPA 5030B_MS

Blank (1C22014-BLK1) Prepared: 03/22/2021 00:00 Analyzed: 03/22/2021 13:34

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.61	U	1.0	ug/L							
1,1,1-Trichloroethane	0.80	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.54	U	1.0	ug/L							
1,1,2-Trichloroethane	0.76	U	1.0	ug/L							
1,1-Dichloroethane	0.62	U	1.0	ug/L							
1,1-Dichloroethene	0.94	U	1.0	ug/L							
1,1-Dichloropropene	0.74	U	1.0	ug/L							
1,2,3-Trichlorobenzene	0.86	U	1.0	ug/L							
1,2,3-Trichloropropane	0.64	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.70	U	1.0	ug/L							
1,2,4-Trimethylbenzene	0.69	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.96	U	1.0	ug/L							
1,2-Dibromoethane	0.78	U	1.0	ug/L							
1,2-Dichlorobenzene	0.73	U	1.0	ug/L							
1,2-Dichloroethane	0.63	U	1.0	ug/L							
1,2-Dichloropropane	0.80	U	1.0	ug/L							
1,3,5-Trimethylbenzene	0.58	U	1.0	ug/L							
1,3-Dichlorobenzene	0.77	U	1.0	ug/L							
1,3-Dichloropropane	0.60	U	1.0	ug/L							
1,4-Dichlorobenzene	0.76	U	1.0	ug/L							
2,2-Dichloropropane	0.66	U	1.0	ug/L							
2-Butanone	4.5	U	5.0	ug/L							
2-Chloroethyl Vinyl Ether	2.5	U	100	ug/L							
2-Chlorotoluene	0.68	U	1.0	ug/L							
2-Hexanone	2.5	U	5.0	ug/L							
4-Chlorotoluene	0.65	U	1.0	ug/L							
4-Isopropyltoluene	0.80	U	1.0	ug/L							
4-Methyl-2-pentanone	2.5	U	5.0	ug/L							
Acetone	10	U	20	ug/L							
Benzene	0.71	U	1.0	ug/L							
Bromobenzene	0.77	U	1.0	ug/L							
Bromochloromethane	0.94	U	1.0	ug/L							
Bromodichloromethane	0.52	U	1.0	ug/L							
Bromoform	0.75	U	1.0	ug/L							
Bromomethane	0.95	U	1.0	ug/L							

QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 1C22014 - EPA 5030B_MS - Continued

Blank (1C22014-BLK1) Continued Prepared: 03/22/2021 00:00 Analyzed: 03/22/2021 13:34

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Carbon disulfide	2.5	U	5.0	ug/L							
Carbon tetrachloride	0.94	U	1.0	ug/L							
Chlorobenzene	0.72	U	1.0	ug/L							
Chloroethane	0.98	U	1.0	ug/L							
Chloroform	0.80	U	1.0	ug/L							
Chloromethane	0.82	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.53	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.59	U	1.0	ug/L							
Dibromochloromethane	0.50	U	1.0	ug/L							
Dibromomethane	0.84	U	1.0	ug/L							
Dichlorodifluoromethane	0.74	U	1.0	ug/L							
Ethylbenzene	0.69	U	1.0	ug/L							
Hexachlorobutadiene	0.70	U	1.0	ug/L							
Isopropylbenzene	0.67	U	1.0	ug/L							
m,p-Xylenes	1.3	U	2.0	ug/L							
Methylene chloride	2.5	U	5.0	ug/L							
Methyl-tert-Butyl Ether	0.60	U	1.0	ug/L							
Naphthalene	0.82	U	1.0	ug/L							
n-Butyl Benzene	0.70	U	1.0	ug/L							
n-Propyl Benzene	0.50	U	1.0	ug/L							
o-Xylene	0.53	U	1.0	ug/L							
sec-Butylbenzene	0.74	U	1.0	ug/L							
Styrene	0.61	U	1.0	ug/L							
tert-Butylbenzene	0.64	U	1.0	ug/L							
Tetrachloroethene	0.76	U	1.0	ug/L							
Toluene	0.72	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.73	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.73	U	1.0	ug/L							
Trichloroethene	0.89	U	1.0	ug/L							
Trichlorofluoromethane	0.94	U	1.0	ug/L							
Vinyl chloride	0.71	U	1.0	ug/L							
Xylenes (Total)	1.3	U	2.0	ug/L							
4-Bromofluorobenzene	*46*			*ug/L*	*50.0*		*93*	*41-142*			
Dibromofluoromethane	*47*			*ug/L*	*50.0*		*94*	*53-146*			
Toluene-d8	*49*			*ug/L*	*50.0*		*97*	*41-146*			

LCS (1C22014-BS1) Prepared: 03/22/2021 00:00 Analyzed: 03/22/2021 10:05

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	17		1.0	ug/L	20.0		86	47-139			
Benzene	20		1.0	ug/L	20.0		102	56-136			
Chlorobenzene	22		1.0	ug/L	20.0		108	51-139			
Toluene	21		1.0	ug/L	20.0		107	64-131			
Trichloroethene	20		1.0	ug/L	20.0		99	62-135			
4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*95*	*41-142*			
Dibromofluoromethane	*46*			*ug/L*	*50.0*		*92*	*53-146*			
Toluene-d8	*49*			*ug/L*	*50.0*		*97*	*41-146*			

QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 1C22014 - EPA 5030B_MS - Continued

Matrix Spike (1C22014-MS1) Prepared: 03/22/2021 00:00 Analyzed: 03/22/2021 10:42

Source: AE01430-01

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0	0.94 U	96	47-139			
Benzene	21		1.0	ug/L	20.0	0.71 U	107	56-136			
Chlorobenzene	23		1.0	ug/L	20.0	0.72 U	113	51-139			
Toluene	23		1.0	ug/L	20.0	0.72 U	115	64-131			
Trichloroethene	22		1.0	ug/L	20.0	0.89 U	108	62-135			
4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*97*	*41-142*			
Dibromofluoromethane	*46*			*ug/L*	*50.0*		*91*	*53-146*			
Toluene-d8	*49*			*ug/L*	*50.0*		*98*	*41-146*			

Matrix Spike Dup (1C22014-MSD1) Prepared: 03/22/2021 00:00 Analyzed: 03/22/2021 11:11

Source: AE01430-01

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	18		1.0	ug/L	20.0	0.94 U	90	47-139	6	16	
Benzene	21		1.0	ug/L	20.0	0.71 U	106	56-136	1	14	
Chlorobenzene	22		1.0	ug/L	20.0	0.72 U	110	51-139	3	13	
Toluene	22		1.0	ug/L	20.0	0.72 U	110	64-131	5	16	
Trichloroethene	21		1.0	ug/L	20.0	0.89 U	106	62-135	2	20	
4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*94*	*41-142*			
Dibromofluoromethane	*45*			*ug/L*	*50.0*		*90*	*53-146*			
Toluene-d8	*50*			*ug/L*	*50.0*		*99*	*41-146*			

Organochlorine Pesticides by GC - Quality Control

Batch 1C17007 - EPA 3510C

Blank (1C17007-BLK1) Prepared: 03/17/2021 09:35 Analyzed: 03/17/2021 14:11

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.020	U	0.050	ug/L							
4,4'-DDE	0.036	U	0.050	ug/L							
4,4'-DDT	0.025	U	0.050	ug/L							
Aldrin	0.032	U	0.050	ug/L							
alpha-BHC	0.026	U	0.050	ug/L							
beta-BHC	0.036	U	0.050	ug/L							
Chlordane (tech)	0.36	U	0.50	ug/L							
Chlordane-alpha	0.022	U	0.050	ug/L							
Chlordane-gamma	0.024	U	0.050	ug/L							
delta-BHC	0.019	U	0.050	ug/L							
Dieldrin	0.017	U	0.050	ug/L							
Endosulfan I	0.016	U	0.050	ug/L							
Endosulfan II	0.017	U	0.050	ug/L							
Endosulfan sulfate	0.020	U	0.050	ug/L							
Endrin	0.014	U	0.050	ug/L							
Endrin aldehyde	0.020	U	0.050	ug/L							
Endrin ketone	0.017	U	0.050	ug/L							
gamma-BHC	0.021	U	0.050	ug/L							
Heptachlor	0.026	U	0.050	ug/L							
Heptachlor epoxide	0.018	U	0.050	ug/L							

QUALITY CONTROL DATA

Organochlorine Pesticides by GC - Quality Control

Batch 1C17007 - EPA 3510C - Continued

Blank (1C17007-BLK1) Continued Prepared: 03/17/2021 09:35 Analyzed: 03/17/2021 14:11

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Isodrin	0.030	U	0.050	ug/L							
Methoxychlor	0.020	U	0.050	ug/L							
Mirex	0.034	U	0.050	ug/L							
Toxaphene	0.48	U	0.50	ug/L							
2,4,5,6-TCMX	*1.0*			*ug/L*	*1.00*		*103*	*38-142*			
Decachlorobiphenyl	*0.95*			*ug/L*	*1.00*		*95*	*34-159*			

LCS (1C17007-BS1) Prepared: 03/17/2021 09:35 Analyzed: 03/17/2021 15:00

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	0.79		0.050	ug/L	1.00		79	37-125			
Dieldrin	0.96		0.050	ug/L	1.00		96	46-127			
Endrin	0.95		0.050	ug/L	1.00		95	28-143			
2,4,5,6-TCMX	*1.0*			*ug/L*	*1.00*		*100*	*38-142*			
Decachlorobiphenyl	*0.94*			*ug/L*	*1.00*		*94*	*34-159*			

Matrix Spike (1C17007-MS1) Prepared: 03/17/2021 09:35 Analyzed: 03/17/2021 15:13

Source: AE01638-02

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	7.6		0.25	ug/L	5.00	0.12 U	153	37-125			QM-07
Dieldrin	5.3		0.25	ug/L	5.00	0.085 U	106	46-127			
Endrin	8.3		0.25	ug/L	5.00	0.070 U	166	28-143			QM-07
2,4,5,6-TCMX	*5.4*			*ug/L*	*5.00*		*108*	*38-142*			
Decachlorobiphenyl	*3.4*			*ug/L*	*5.00*		*68*	*34-159*			

Matrix Spike Dup (1C17007-MSD1) Prepared: 03/17/2021 09:35 Analyzed: 03/17/2021 15:25

Source: AE01638-02

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	4.1		0.25	ug/L	5.00	0.12 U	82	37-125	60	24	QM-11
Dieldrin	3.8		0.25	ug/L	5.00	0.085 U	76	46-127	33	21	QM-11
Endrin	5.0		0.25	ug/L	5.00	0.070 U	100	28-143	50	22	QM-11
2,4,5,6-TCMX	*4.2*			*ug/L*	*5.00*		*85*	*38-142*			
Decachlorobiphenyl	*2.6*			*ug/L*	*5.00*		*51*	*34-159*			

FLAGS/NOTES AND DEFINITIONS

PQL	PQL: Practical Quantitation Limit. The PQL presented is the laboratory MRL.
B	Results are based upon membrane filter colony counts that are outside the method indicated ideal range.
I	The reported value is between the laboratory method detection limit (MDL) and the practical quantitation limit (PQL).
J	Estimated value.
K	Off-scale low; Actual value is known to be less than the value given.
L	Off-scale high; Actual value is known to be greater than value given.
M	Presence of analyte is verified but not quantified; the actual value is less than the MRL but greater than the MDL.
N	Presumptive evidence of presence of material.
O	Sampled, but analysis lost or not performed.
Q	Sample exceeded the accepted holding time.
T	Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only and shall not be used in statistical analysis.
U	Indicates that the compound was analyzed for but not detected.
V	Indicates that the analyte was detected in both the sample and the associated method blank.
Y	The laboratory analysis was from an improperly preserved sample. The data may not be accurate.
Z	Too many colonies were present (TNTC); the numeric value represents the filtration volume.
?	Data are rejected and should not be used. Some or all of the quality control data for the analyte were outside criteria, and the presence or absence of the analyte cannot be determined from the data.
*****	Not reported due to interference.
[CALC]	Calculated analyte - MDL/MRL reported to the highest reporting limit of the component analyses.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-11	Precision between duplicate matrix spikes of the same sample was outside acceptance limits.
QV-01	The associated continuing calibration verification standard exhibited high bias; since the result is ND, there is no impact.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

www.encolabs.com

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314

4810 Executive Park Court, Suite 111
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Client Name	Project Number
Universal Engineering Sciences ENV (UN004)	0340.2100012.0000
Address	**Project Name/Desc**
820 Brevard Ave.	Pelican Coast Soil and Groundwater Sampling
City/ST/Zip	**PO # / Billing Info**
Rockledge, FL 32955	
Tel (321) 638-0808 **Fax** (321) 638-0978	**Reporting Contact** Teresa Hardy
Sampler(s) Name, Affiliation (Print) Brandon Selph	**Billing Contact** Teresa Hardy
Sampler(s) Signature	**Site Location / Time Zone** Satellite Beach EST

Requested Analyses

8260D	8081B								

Preservation (See Codes) (Combine as necessary)

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due ___/___/___

Lab Workorder AE02130

~~AE01807~~

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers										Sample Comments
	GW1	3/16/21	10:01	G	GW	4	X	X								
	GW2	3/16/21	10:49	G	GW	4	X	X								
	Field Blank	3/16/21	11:26	G	FB	4	X	X								
	GW-3	↓	11:48	G	GW	4	X	X								
	GW-4	↓	12:44	G	GW	4	X	X								
	GW-5	↓	1336	G	GW	4	X	X								
	GW-6	↓	1423	G	GW	4	X	X								
	GW-7	↓	1549	G	GW	4	X	X								
	GW-8	↓	1516	G	GW	4	X	X								

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
	3/5/21 13:50	Clarence S. Rasipanki	3/5/21 13:50		
Comments/Special Reporting Requirements		**Relinquished By**	**Date/Time**	**Received By**	**Date/Time**
			3/17/21 11:00	M Bryd	3/17/21 1100
		Relinquished By	**Date/Time**	**Received By**	**Date/Time**

Cooler #'s & Temps on Receipt C-2104 4.0°C, C-2214 1.3°C

Condition Upon Receipt ___ Acceptable ___ Unacceptable

Matrix : **GW**-Groundwater **SO**-Soil **DW**-Drinking Water **SE**-Sediment **SW**-Surface Water **WW**-Wastewater **A**-Air **O**-Other (detail in comments)

Preservation: **I**-Ice **H**-HCl **N**-HNO3 **S**-H2SO4 **NO**-NaOH **O**-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

www.encolabs.com

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314

4810 Executive Park Court, Suite 111
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Client Name: Universal Engineering Sciences ENV (UN004)	Project Number: 0340.2100012.0000
Address: 820 Brevard Ave.	Project Name/Desc: Pelican Coast Soil and Groundwater Sampling
City/ST/Zip: Rockledge, FL 32955	PO # / Billing Info:
Tel: (321) 638-0808 Fax: (321) 638-0978	Reporting Contact: Teresa Hardy
Sampler(s) Name, Affiliation (Print): Brandon Self	Billing Contact: Teresa Hardy
Sampler(s) Signature:	Site Location / Time Zone:

Requested Analyses

PFAS

Preservation (See Codes) (Combine as necessary)

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due ___/___/___

Lab Workorder ~~AE01807~~ AE02130

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	PFAS	Sample Comments
1	GW1	3/16/21	1001	G	GW	3	X	
2	GW2	3/16/21	10:49	G	GW	3	X	
3	Field Blank	3/16/21	11:25	G	FB	2	X	
4	GW-3	↓	11:48	G	GW	3	X	
5	GW-4	↓	12:44	G	GW	3	X	
6	GW-5 MS/MSD	↓	1336	G	GW	6	X	
7	GW-5	↓	1336	G	GW	3	X	
8	GW-6	↓	1423	G	GW	3	X	
	GW-7	↓	1546	G	GW	3	X	
	GW-8	↓	1516	G	GW	3	X	

<-- Total # of Containers

Sample Kit Prepared By: CP	Date/Time: 3/5/21 13:50	Relinquished By: Carlene S. Pasipanki	Date/Time: 3/5/21 13:50	Received By:	Date/Time:
Comments/Special Reporting Requirements:		Relinquished By:	Date/Time: 3/17/21 11:00	Received By: N Boyd	Date/Time: 3/17/21 1100
		Relinquished By:	Date/Time:	Received By:	Date/Time:

Cooler #'s & Temps on Receipt: C-2104 4.0°C, C-2214 1.3°C

Condition Upon Receipt: ___ Acceptable ___ Unacceptable

Matrix : **GW**-Groundwater **SO**-Soil **DW**-Drinking Water **SE**-Sediment **SW**-Surface Water **WW**-Wastewater **A**-Air **O**-Other (detail in comments)

Preservation: **I**-Ice **H**-HCl **N**-HNO3 **S**-H2SO4 **NO**-NaOH **O**-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

GEL Laboratories LLC
a member of The GEL Group INC

PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

April 09, 2021

Russ Erickson
Environmental Conservation Laboratories, Inc.
10775 Central Port Drive
Orlando, Florida 32824

Re: PFAS-Erickson
Work Order: 538254
SDG: AE02130

Dear Russ Erickson:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on March 18, 2021. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures. Rev01: This report is revised to include the correct matrix.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4443.

Sincerely,

Lindsay Fabra

Lindsay Fabra
Project Manager

Purchase Order: GELP20-0372
Enclosures

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 − (843) 556−8171 − www.gel.com

Certificate of Analysis Report
for

ENCL001 Environmental Conservation Laboratories

Client SDG: AE02130 GEL Work Order: 538254

The Qualifiers in this report are defined as follows:

* A quality control analyte recovery is outside of specified acceptance criteria

** Analyte is a Tracer compound

** Analyte is a surrogate compound

J See case narrative for an explanation

J Value is estimated

U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Lindsay Fabra.

Reviewed by Lindsay Fabra

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: April 9, 2021

Company : Environmental Conservation Laboratories, Inc.
Address : 10775 Central Port Drive

Orlando, Florida 32824
Contact: Russ Erickson
Project: PFAS-Erickson

Client Sample ID: GW-1
Sample ID: 538254001
Matrix: Ground Water
Collect Date: 16-MAR-21 10:01
Receive Date: 18-MAR-21
Collector: Client

Project: ENCL00120
Client ID: ENCL001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
LCMSMS PFCs												
EPA 537Mod PFCs by LC-MS/MS "As Received"												
1H, 1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2 FTS)	U	ND	5.72	16.3	ng/L	0.0173	5	JLS	03/23/21	1743	2105790	1
1H, 1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2 FTS)	U	ND	5.72	16.5	ng/L	0.0173	5					
1H, 1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2 FTS)	U	ND	5.72	16.6	ng/L	0.0173	5					
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	U	ND	5.72	17.3	ng/L	0.0173	5					
N-Methylperfluorooctane sulfonamide (NMeFOSA)	U	ND	5.72	17.3	ng/L	0.0173	5					
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	U	ND	5.72	17.3	ng/L	0.0173	5					
Perfluorobutane sulfonic acid (PFBS)	U	ND	2.86	7.71	ng/L	0.0173	5					
Perfluorobutanoic acid (PFBA)	U	ND	3.47	8.66	ng/L	0.0173	5					
Perfluorodecane sulfonic acid (PFDS)	U	ND	2.86	8.40	ng/L	0.0173	5					
Perfluorodecanoic acid (PFDA)	U	ND	3.38	8.66	ng/L	0.0173	5					
Perfluorododecanoic acid (PFDOA)	U	ND	2.86	8.66	ng/L	0.0173	5					
Perfluoroheptane sulfonic acid (PFHpS)	U	ND	2.86	8.23	ng/L	0.0173	5					
Perfluoroheptanoic acid (PFHpA)	U	ND	2.86	8.66	ng/L	0.0173	5					
Perfluorohexane sulfonic acid (PFHxS)	U	ND	2.86	7.88	ng/L	0.0173	5					
Perfluorohexanoic acid (PFHxA)	U	ND	3.47	8.66	ng/L	0.0173	5					
Perfluorononane sulfonic acid (PFNS)	U	ND	3.03	8.32	ng/L	0.0173	5					
Perfluorononanoic acid (PFNA)	U	ND	2.86	8.66	ng/L	0.0173	5					
Perfluorooctane sulfonamide (PFOSAm)	U	ND	2.86	8.66	ng/L	0.0173	5					
Perfluorooctane sulfonic acid (PFOS)		16.2	3.47	8.66	ng/L	0.0173	5					
Perfluorooctanoic acid (PFOA)	U	ND	3.47	8.66	ng/L	0.0173	5					
Perfluoropentane sulfonic acid (PFPeS)	U	ND	2.86	8.14	ng/L	0.0173	5					
Perfluoropentanoic acid (PFPeA)	U	ND	2.86	8.66	ng/L	0.0173	5					
Perfluorotetradecanoic acid (PFTDA)	U	ND	3.47	8.66	ng/L	0.0173	5					

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: April 9, 2021

Company : Environmental Conservation Laboratories, Inc.
Address : 10775 Central Port Drive

Orlando, Florida 32824
Contact: Russ Erickson
Project: PFAS-Erickson

Client Sample ID: GW-1 Project: ENCL00120
Sample ID: 538254001 Client ID: ENCL001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst Date	Time	Batch	Method
LCMSMS PFCs											
EPA 537Mod PFCs by LC-MS/MS "As Received"											
Perfluorotridecanoic acid (PFTrDA)	U	ND	2.86	8.66	ng/L	0.0173	5				
Perfluoroundecanoic acid (PFUnDA)	U	ND	2.86	8.66	ng/L	0.0173	5				

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 537.1 Mod, PFAS, Compl	PFCs Extraction in Liquid	TC2	03/22/21	1018	2105730

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 537.1 Mod, PFAS, Compliant with QSM Table B-15	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: April 9, 2021

Company : Environmental Conservation Laboratories, Inc.
Address : 10775 Central Port Drive

Orlando, Florida 32824
Contact: Russ Erickson
Project: PFAS-Erickson

Client Sample ID: GW-2
Sample ID: 538254002
Matrix: Ground Water
Collect Date: 16-MAR-21 10:49
Receive Date: 18-MAR-21
Collector: Client

Project: ENCL00120
Client ID: ENCL001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
LCMSMS PFCs												
EPA 537Mod PFCs by LC-MS/MS "As Received"												
1H, 1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2 FTS)	U	ND	1.14	3.26	ng/L	0.0173	1	JLS	03/23/21	1454	2105790	1
1H, 1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2 FTS)	U	ND	1.14	3.30	ng/L	0.0173	1					
1H, 1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2 FTS)	U	ND	1.14	3.33	ng/L	0.0173	1					
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	U	ND	1.14	3.47	ng/L	0.0173	1					
N-Methylperfluorooctane sulfonamide (NMeFOSA)	U	ND	1.14	3.47	ng/L	0.0173	1					
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	U	ND	1.14	3.47	ng/L	0.0173	1					
Perfluorobutane sulfonic acid (PFBS)	U	ND	0.572	1.54	ng/L	0.0173	1					
Perfluorodecane sulfonic acid (PFDS)	U	ND	0.572	1.68	ng/L	0.0173	1					
Perfluorodecanoic acid (PFDA)	U	ND	0.676	1.73	ng/L	0.0173	1					
Perfluorododecanoic acid (PFDOA)	U	ND	0.572	1.73	ng/L	0.0173	1					
Perfluoroheptane sulfonic acid (PFHpS)	U	ND	0.572	1.65	ng/L	0.0173	1					
Perfluoroheptanoic acid (PFHpA)	U	ND	0.572	1.73	ng/L	0.0173	1					
Perfluorohexane sulfonic acid (PFHxS)	U	ND	0.572	1.58	ng/L	0.0173	1					
Perfluorohexanoic acid (PFHxA)	U	ND	0.694	1.73	ng/L	0.0173	1					
Perfluorononane sulfonic acid (PFNS)	U	ND	0.607	1.66	ng/L	0.0173	1					
Perfluorononanoic acid (PFNA)	U	ND	0.572	1.73	ng/L	0.0173	1					
Perfluorooctane sulfonamide (PFOSAm)	U	ND	0.572	1.73	ng/L	0.0173	1					
Perfluorooctane sulfonic acid (PFOS)	J	0.793	0.694	1.73	ng/L	0.0173	1					
Perfluorooctanoic acid (PFOA)	U	ND	0.694	1.73	ng/L	0.0173	1					
Perfluoropentane sulfonic acid (PFPeS)	U	ND	0.572	1.63	ng/L	0.0173	1					
Perfluoropentanoic acid (PFPeA)	U	ND	0.572	1.73	ng/L	0.0173	1					
Perfluorotetradecanoic acid (PFTDA)	U	ND	0.694	1.73	ng/L	0.0173	1					
Perfluorotridecanoic acid (PFTrDA)	U	ND	0.572	1.73	ng/L	0.0173	1					

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: April 9, 2021

Company : Environmental Conservation Laboratories, Inc.
Address : 10775 Central Port Drive

Orlando, Florida 32824
Contact: Russ Erickson
Project: PFAS-Erickson

Client Sample ID: GW-2 Project: ENCL00120
Sample ID: 538254002 Client ID: ENCL001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
LCMSMS PFCs												
EPA 537Mod PFCs by LC-MS/MS "As Received"												
Perfluoroundecanoic acid (PFUnDA)	U	ND	0.572	1.73	ng/L	0.0173	1					
Perfluorobutanoic acid (PFBA)	U	ND	3.47	8.67	ng/L	0.0173	5	JLS	03/23/21	1756	2105790	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 537.1 Mod, PFAS, Compl	PFCs Extraction in Liquid	TC2	03/22/21	1018	2105730

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 537.1 Mod, PFAS, Compliant with QSM Table B-15	
2	EPA 537.1 Mod, PFAS, Compliant with QSM Table B-15	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: April 9, 2021

Company : Environmental Conservation Laboratories, Inc.
Address : 10775 Central Port Drive

Orlando, Florida 32824
Contact: Russ Erickson
Project: PFAS-Erickson

Client Sample ID: FIELD BLANK
Sample ID: 538254003
Matrix: Water
Collect Date: 16-MAR-21 11:26
Receive Date: 18-MAR-21
Collector: Client

Project: ENCL00120
Client ID: ENCL001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
LCMSMS PFCs												
EPA 537Mod PFCs by LC-MS/MS "As Received"												
1H, 1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2 FTS)	U	ND	1.18	3.36	ng/L	0.0179	1	JLS	03/23/21	1507	2105790	1
1H, 1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2 FTS)	U	ND	1.18	3.39	ng/L	0.0179	1					
1H, 1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2 FTS)	U	ND	1.18	3.43	ng/L	0.0179	1					
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	U	ND	1.18	3.57	ng/L	0.0179	1					
N-Methylperfluorooctane sulfonamide (NMeFOSA)	U	ND	1.18	3.57	ng/L	0.0179	1					
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	U	ND	1.18	3.57	ng/L	0.0179	1					
Perfluorobutane sulfonic acid (PFBS)	U	ND	0.589	1.59	ng/L	0.0179	1					
Perfluorobutanoic acid (PFBA)	U	ND	0.714	1.79	ng/L	0.0179	1					
Perfluorodecane sulfonic acid (PFDS)	U	ND	0.589	1.73	ng/L	0.0179	1					
Perfluorodecanoic acid (PFDA)	U	ND	0.696	1.79	ng/L	0.0179	1					
Perfluorododecanoic acid (PFDOA)	U	ND	0.589	1.79	ng/L	0.0179	1					
Perfluoroheptane sulfonic acid (PFHpS)	U	ND	0.589	1.70	ng/L	0.0179	1					
Perfluoroheptanoic acid (PFHpA)	U	ND	0.589	1.79	ng/L	0.0179	1					
Perfluorohexane sulfonic acid (PFHxS)	U	ND	0.589	1.62	ng/L	0.0179	1					
Perfluorohexanoic acid (PFHxA)	U	ND	0.714	1.79	ng/L	0.0179	1					
Perfluorononane sulfonic acid (PFNS)	U	ND	0.625	1.71	ng/L	0.0179	1					
Perfluorononanoic acid (PFNA)	U	ND	0.589	1.79	ng/L	0.0179	1					
Perfluorooctane sulfonamide (PFOSAm)	U	ND	0.589	1.79	ng/L	0.0179	1					
Perfluorooctane sulfonic acid (PFOS)	U	ND	0.714	1.79	ng/L	0.0179	1					
Perfluorooctanoic acid (PFOA)	U	ND	0.714	1.79	ng/L	0.0179	1					
Perfluoropentane sulfonic acid (PFPeS)	U	ND	0.589	1.68	ng/L	0.0179	1					
Perfluoropentanoic acid (PFPeA)	U	ND	0.589	1.79	ng/L	0.0179	1					
Perfluorotetradecanoic acid (PFTDA)	U	ND	0.714	1.79	ng/L	0.0179	1					

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: April 9, 2021

Company : Environmental Conservation Laboratories, Inc.
Address : 10775 Central Port Drive

Orlando, Florida 32824
Contact: Russ Erickson
Project: PFAS-Erickson

Client Sample ID: FIELD BLANK
Sample ID: 538254003

Project: ENCL00120
Client ID: ENCL001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst Date	Time	Batch	Method
LCMSMS PFCs											
EPA 537Mod PFCs by LC-MS/MS "As Received"											
Perfluorotridecanoic acid (PFTrDA)	U	ND	0.589	1.79	ng/L	0.0179	1				
Perfluoroundecanoic acid (PFUnDA)	U	ND	0.589	1.79	ng/L	0.0179	1				

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 537.1 Mod, PFAS, Compl	PFCs Extraction in Liquid	TC2	03/22/21	1018	2105730

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 537.1 Mod, PFAS, Compliant with QSM Table B-15	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: April 9, 2021

Company : Environmental Conservation Laboratories, Inc.
Address : 10775 Central Port Drive

Orlando, Florida 32824
Contact: Russ Erickson
Project: PFAS-Erickson

Client Sample ID: GW-3
Sample ID: 538254004
Matrix: Ground Water
Collect Date: 16-MAR-21 11:48
Receive Date: 18-MAR-21
Collector: Client

Project: ENCL00120
Client ID: ENCL001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
LCMSMS PFCs												
EPA 537Mod PFCs by LC-MS/MS "As Received"												
1H, 1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2 FTS)	U	ND	1.15	3.27	ng/L	0.0174	1	JLS	03/23/21	1520	2105790	1
1H, 1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2 FTS)	U	ND	1.15	3.30	ng/L	0.0174	1					
1H, 1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2 FTS)	U	ND	1.15	3.34	ng/L	0.0174	1					
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	U	ND	1.15	3.48	ng/L	0.0174	1					
N-Methylperfluorooctane sulfonamide (NMeFOSA)	U	ND	1.15	3.48	ng/L	0.0174	1					
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	U	ND	1.15	3.48	ng/L	0.0174	1					
Perfluorobutane sulfonic acid (PFBS)		2.24	0.574	1.55	ng/L	0.0174	1					
Perfluorobutanoic acid (PFBA)		1.91	0.695	1.74	ng/L	0.0174	1					
Perfluorodecane sulfonic acid (PFDS)	U	ND	0.574	1.69	ng/L	0.0174	1					
Perfluorodecanoic acid (PFDA)	U	ND	0.678	1.74	ng/L	0.0174	1					
Perfluorododecanoic acid (PFDOA)	U	ND	0.574	1.74	ng/L	0.0174	1					
Perfluoroheptane sulfonic acid (PFHpS)		3.61	0.574	1.65	ng/L	0.0174	1					
Perfluoroheptanoic acid (PFHpA)		2.95	0.574	1.74	ng/L	0.0174	1					
Perfluorohexane sulfonic acid (PFHxS)		4.50	0.574	1.58	ng/L	0.0174	1					
Perfluorohexanoic acid (PFHxA)		1.94	0.695	1.74	ng/L	0.0174	1					
Perfluorononane sulfonic acid (PFNS)	U	ND	0.608	1.67	ng/L	0.0174	1					
Perfluorononanoic acid (PFNA)	U	ND	0.574	1.74	ng/L	0.0174	1					
Perfluorooctane sulfonamide (PFOSAm)	U	ND	0.574	1.74	ng/L	0.0174	1					
Perfluorooctane sulfonic acid (PFOS)		97.5	0.695	1.74	ng/L	0.0174	1					
Perfluorooctanoic acid (PFOA)		14.0	0.695	1.74	ng/L	0.0174	1					
Perfluoropentane sulfonic acid (PFPeS)	J	1.57	0.574	1.63	ng/L	0.0174	1					
Perfluoropentanoic acid (PFPeA)	J	1.53	0.574	1.74	ng/L	0.0174	1					
Perfluorotetradecanoic acid (PFTDA)	U	ND	0.695	1.74	ng/L	0.0174	1					

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: April 9, 2021

Company : Environmental Conservation Laboratories, Inc.
Address : 10775 Central Port Drive

Orlando, Florida 32824
Contact: Russ Erickson
Project: PFAS-Erickson

Client Sample ID: GW-3
Sample ID: 538254004

Project: ENCL00120
Client ID: ENCL001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst Date	Time	Batch	Method
LCMSMS PFCs											
EPA 537Mod PFCs by LC-MS/MS "As Received"											
Perfluorotridecanoic acid (PFTrDA)	U	ND	0.574	1.74	ng/L	0.0174	1				
Perfluoroundecanoic acid (PFUnDA)	U	ND	0.574	1.74	ng/L	0.0174	1				

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 537.1 Mod, PFAS, Compl	PFCs Extraction in Liquid	TC2	03/22/21	1018	2105730

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 537.1 Mod, PFAS, Compliant with QSM Table B-15	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: April 9, 2021

Company : Environmental Conservation Laboratories, Inc.
Address : 10775 Central Port Drive

Orlando, Florida 32824
Contact: Russ Erickson
Project: PFAS-Erickson

Client Sample ID: GW-4
Sample ID: 538254005
Matrix: Ground Water
Collect Date: 16-MAR-21 12:44
Receive Date: 18-MAR-21
Collector: Client

Project: ENCL00120
Client ID: ENCL001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
LCMSMS PFCs												
EPA 537Mod PFCs by LC-MS/MS "As Received"												
1H, 1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2 FTS)	U	ND	1.14	3.24	ng/L	0.0172	1	JLS	03/23/21	1533	2105790	1
1H, 1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2 FTS)	U	ND	1.14	3.27	ng/L	0.0172	1					
1H, 1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2 FTS)	U	ND	1.14	3.30	ng/L	0.0172	1					
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	U	ND	1.14	3.44	ng/L	0.0172	1					
N-Methylperfluorooctane sulfonamide (NMeFOSA)	U	ND	1.14	3.44	ng/L	0.0172	1					
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	U	ND	1.14	3.44	ng/L	0.0172	1					
Perfluorobutane sulfonic acid (PFBS)	J	1.03	0.568	1.53	ng/L	0.0172	1					
Perfluorobutanoic acid (PFBA)		1.91	0.688	1.72	ng/L	0.0172	1					
Perfluorodecane sulfonic acid (PFDS)	U	ND	0.568	1.67	ng/L	0.0172	1					
Perfluorodecanoic acid (PFDA)	U	ND	0.671	1.72	ng/L	0.0172	1					
Perfluorododecanoic acid (PFDOA)	U	ND	0.568	1.72	ng/L	0.0172	1					
Perfluoroheptane sulfonic acid (PFHpS)	U	ND	0.568	1.63	ng/L	0.0172	1					
Perfluoroheptanoic acid (PFHpA)	J	0.944	0.568	1.72	ng/L	0.0172	1					
Perfluorohexane sulfonic acid (PFHxS)	J	1.13	0.568	1.57	ng/L	0.0172	1					
Perfluorohexanoic acid (PFHxA)	U	ND	0.688	1.72	ng/L	0.0172	1					
Perfluorononane sulfonic acid (PFNS)	U	ND	0.602	1.65	ng/L	0.0172	1					
Perfluorononanoic acid (PFNA)	J	0.693	0.568	1.72	ng/L	0.0172	1					
Perfluorooctane sulfonamide (PFOSAm)	U	ND	0.568	1.72	ng/L	0.0172	1					
Perfluorooctane sulfonic acid (PFOS)		53.2	0.688	1.72	ng/L	0.0172	1					
Perfluorooctanoic acid (PFOA)		3.28	0.688	1.72	ng/L	0.0172	1					
Perfluoropentane sulfonic acid (PFPeS)	U	ND	0.568	1.62	ng/L	0.0172	1					
Perfluoropentanoic acid (PFPeA)	U	ND	0.568	1.72	ng/L	0.0172	1					
Perfluorotetradecanoic acid (PFTDA)	U	ND	0.688	1.72	ng/L	0.0172	1					

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: April 9, 2021

Company : Environmental Conservation Laboratories, Inc.
Address : 10775 Central Port Drive

Orlando, Florida 32824
Contact: Russ Erickson
Project: PFAS-Erickson

Client Sample ID: GW-4 Project: ENCL00120
Sample ID: 538254005 Client ID: ENCL001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst Date	Time	Batch	Method
LCMSMS PFCs											
EPA 537Mod PFCs by LC-MS/MS "As Received"											
Perfluorotridecanoic acid (PFTrDA)	U	ND	0.568	1.72	ng/L	0.0172	1				
Perfluoroundecanoic acid (PFUnDA)	U	ND	0.568	1.72	ng/L	0.0172	1				

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 537.1 Mod, PFAS, Compl	PFCs Extraction in Liquid	TC2	03/22/21	1018	2105730

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 537.1 Mod, PFAS, Compliant with QSM Table B-15	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: April 9, 2021

Company : Environmental Conservation Laboratories, Inc.
Address : 10775 Central Port Drive

Orlando, Florida 32824
Contact: Russ Erickson
Project: PFAS-Erickson

Client Sample ID: GW-5
Sample ID: 538254006
Matrix: Ground Water
Collect Date: 16-MAR-21 13:36
Receive Date: 18-MAR-21
Collector: Client

Project: ENCL00120
Client ID: ENCL001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
LCMSMS PFCs												
EPA 537Mod PFCs by LC-MS/MS "As Received"												
1H, 1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2 FTS)	U	ND	1.16	3.31	ng/L	0.0176	1	JLS	03/23/21	1546	2105790	1
1H, 1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2 FTS)	J	2.70	1.16	3.34	ng/L	0.0176	1					
1H, 1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2 FTS)	U	ND	1.16	3.38	ng/L	0.0176	1					
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	U	ND	1.16	3.52	ng/L	0.0176	1					
N-Methylperfluorooctane sulfonamide (NMeFOSA)	U	ND	1.16	3.52	ng/L	0.0176	1					
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	U	ND	1.16	3.52	ng/L	0.0176	1					
Perfluorobutane sulfonic acid (PFBS)		5.29	0.580	1.57	ng/L	0.0176	1					
Perfluorobutanoic acid (PFBA)		27.3	0.703	1.76	ng/L	0.0176	1					
Perfluorodecane sulfonic acid (PFDS)	U	ND	0.580	1.71	ng/L	0.0176	1					
Perfluorodecanoic acid (PFDA)	U	ND	0.686	1.76	ng/L	0.0176	1					
Perfluorododecanoic acid (PFDOA)	U	ND	0.580	1.76	ng/L	0.0176	1					
Perfluoroheptane sulfonic acid (PFHpS)		2.64	0.580	1.67	ng/L	0.0176	1					
Perfluoroheptanoic acid (PFHpA)		20.7	0.580	1.76	ng/L	0.0176	1					
Perfluorohexane sulfonic acid (PFHxS)		95.6	0.580	1.60	ng/L	0.0176	1					
Perfluorohexanoic acid (PFHxA)		27.0	0.703	1.76	ng/L	0.0176	1					
Perfluorononane sulfonic acid (PFNS)	U	ND	0.615	1.69	ng/L	0.0176	1					
Perfluorononanoic acid (PFNA)		2.09	0.580	1.76	ng/L	0.0176	1					
Perfluorooctane sulfonamide (PFOSAm)	U	ND	0.580	1.76	ng/L	0.0176	1					
Perfluorooctanoic acid (PFOA)		15.4	0.703	1.76	ng/L	0.0176	1					
Perfluoropentane sulfonic acid (PFPeS)		6.99	0.580	1.65	ng/L	0.0176	1					
Perfluoropentanoic acid (PFPeA)		26.4	0.580	1.76	ng/L	0.0176	1					
Perfluorotetradecanoic acid (PFTDA)	U	ND	0.703	1.76	ng/L	0.0176	1					
Perfluorotridecanoic acid (PFTrDA)	U	ND	0.580	1.76	ng/L	0.0176	1					
Perfluoroundecanoic acid	U	ND	0.580	1.76	ng/L	0.0176	1					

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: April 9, 2021

Company : Environmental Conservation Laboratories, Inc.
Address : 10775 Central Port Drive

Orlando, Florida 32824
Contact: Russ Erickson
Project: PFAS-Erickson

Client Sample ID: GW-5 Project: ENCL00120
Sample ID: 538254006 Client ID: ENCL001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
LCMSMS PFCs												
EPA 537Mod PFCs by LC-MS/MS "As Received"												
(PFUnDA)												
Perfluorooctane sulfonic acid (PFOS)		391	3.52	8.79	ng/L	0.0176	5	JLS	03/23/21	1809	2105790	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 537.1 Mod, PFAS, Compl PFCs	Extraction in Liquid	TC2	03/22/21	1018	2105730

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 537.1 Mod, PFAS, Compliant with QSM Table B-15	
2	EPA 537.1 Mod, PFAS, Compliant with QSM Table B-15	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: April 9, 2021

Company : Environmental Conservation Laboratories, Inc.
Address : 10775 Central Port Drive

Orlando, Florida 32824
Contact: Russ Erickson
Project: PFAS-Erickson

Client Sample ID: GW-6
Sample ID: 538254007
Matrix: Ground Water
Collect Date: 16-MAR-21 14:23
Receive Date: 18-MAR-21
Collector: Client

Project: ENCL00120
Client ID: ENCL001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
LCMSMS PFCs												
EPA 537Mod PFCs by LC-MS/MS "As Received"												
1H, 1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2 FTS)	U	ND	1.14	3.24	ng/L	0.0172	1	JLS	03/23/21	1612	2105790	1
1H, 1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2 FTS)	U	ND	1.14	3.28	ng/L	0.0172	1					
1H, 1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2 FTS)	U	ND	1.14	3.31	ng/L	0.0172	1					
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	U	ND	1.14	3.45	ng/L	0.0172	1					
N-Methylperfluorooctane sulfonamide (NMeFOSA)	U	ND	1.14	3.45	ng/L	0.0172	1					
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	U	ND	1.14	3.45	ng/L	0.0172	1					
Perfluorobutane sulfonic acid (PFBS)		2.07	0.569	1.53	ng/L	0.0172	1					
Perfluorobutanoic acid (PFBA)		7.47	0.690	1.72	ng/L	0.0172	1					
Perfluorodecane sulfonic acid (PFDS)	U	ND	0.569	1.67	ng/L	0.0172	1					
Perfluorodecanoic acid (PFDA)	U	ND	0.672	1.72	ng/L	0.0172	1					
Perfluorododecanoic acid (PFDOA)	U	ND	0.569	1.72	ng/L	0.0172	1					
Perfluoroheptane sulfonic acid (PFHpS)		9.02	0.569	1.64	ng/L	0.0172	1					
Perfluoroheptanoic acid (PFHpA)		5.34	0.569	1.72	ng/L	0.0172	1					
Perfluorohexane sulfonic acid (PFHxS)		5.74	0.569	1.57	ng/L	0.0172	1					
Perfluorohexanoic acid (PFHxA)		6.05	0.690	1.72	ng/L	0.0172	1					
Perfluorononane sulfonic acid (PFNS)	U	ND	0.603	1.66	ng/L	0.0172	1					
Perfluorononanoic acid (PFNA)	J	0.658	0.569	1.72	ng/L	0.0172	1					
Perfluorooctane sulfonamide (PFOSAm)	U	ND	0.569	1.72	ng/L	0.0172	1					
Perfluorooctane sulfonic acid (PFOS)		57.6	0.690	1.72	ng/L	0.0172	1					
Perfluorooctanoic acid (PFOA)		21.7	0.690	1.72	ng/L	0.0172	1					
Perfluoropentane sulfonic acid (PFPeS)	J	0.951	0.569	1.62	ng/L	0.0172	1					
Perfluoropentanoic acid (PFPeA)		4.86	0.569	1.72	ng/L	0.0172	1					
Perfluorotetradecanoic acid (PFTDA)	U	ND	0.690	1.72	ng/L	0.0172	1					

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: April 9, 2021

Company : Environmental Conservation Laboratories, Inc.
Address : 10775 Central Port Drive

Orlando, Florida 32824
Contact: Russ Erickson
Project: PFAS-Erickson

Client Sample ID: GW-6 Project: ENCL00120
Sample ID: 538254007 Client ID: ENCL001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst Date	Time	Batch	Method
LCMSMS PFCs											
EPA 537Mod PFCs by LC-MS/MS "As Received"											
Perfluorotridecanoic acid (PFTrDA)	U	ND	0.569	1.72	ng/L	0.0172	1				
Perfluoroundecanoic acid (PFUnDA)	U	ND	0.569	1.72	ng/L	0.0172	1				

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 537.1 Mod, PFAS, Compl	PFCs Extraction in Liquid	TC2	03/22/21	1018	2105730

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 537.1 Mod, PFAS, Compliant with QSM Table B-15	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: April 9, 2021

Company : Environmental Conservation Laboratories, Inc.
Address : 10775 Central Port Drive

Orlando, Florida 32824
Contact: Russ Erickson
Project: PFAS-Erickson

Client Sample ID: GW-7
Sample ID: 538254008
Matrix: Ground Water
Collect Date: 16-MAR-21 15:49
Receive Date: 18-MAR-21
Collector: Client

Project: ENCL00120
Client ID: ENCL001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
LCMSMS PFCs												
EPA 537Mod PFCs by LC-MS/MS "As Received"												
1H, 1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2 FTS)	U	ND	1.14	3.26	ng/L	0.0173	1	JLS	03/23/21	1836	2105790	1
1H, 1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2 FTS)	U	ND	1.14	3.29	ng/L	0.0173	1					
1H, 1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2 FTS)	U	ND	1.14	3.33	ng/L	0.0173	1					
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	U	ND	1.14	3.46	ng/L	0.0173	1					
N-Methylperfluorooctane sulfonamide (NMeFOSA)	U	ND	1.14	3.46	ng/L	0.0173	1					
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	U	ND	1.14	3.46	ng/L	0.0173	1					
Perfluorobutane sulfonic acid (PFBS)	J	0.828	0.572	1.54	ng/L	0.0173	1					
Perfluorobutanoic acid (PFBA)		7.21	0.693	1.73	ng/L	0.0173	1					
Perfluorodecane sulfonic acid (PFDS)	U	ND	0.572	1.68	ng/L	0.0173	1					
Perfluorodecanoic acid (PFDA)	U	ND	0.676	1.73	ng/L	0.0173	1					
Perfluorododecanoic acid (PFDOA)	U	ND	0.572	1.73	ng/L	0.0173	1					
Perfluoroheptane sulfonic acid (PFHpS)	J	0.926	0.572	1.65	ng/L	0.0173	1					
Perfluoroheptanoic acid (PFHpA)	J	0.861	0.572	1.73	ng/L	0.0173	1					
Perfluorohexane sulfonic acid (PFHxS)		2.52	0.572	1.58	ng/L	0.0173	1					
Perfluorohexanoic acid (PFHxA)	U	ND	0.693	1.73	ng/L	0.0173	1					
Perfluorononane sulfonic acid (PFNS)	U	ND	0.606	1.66	ng/L	0.0173	1					
Perfluorononanoic acid (PFNA)	J	1.26	0.572	1.73	ng/L	0.0173	1					
Perfluorooctane sulfonamide (PFOSAm)	U	ND	0.572	1.73	ng/L	0.0173	1					
Perfluorooctane sulfonic acid (PFOS)		27.8	0.693	1.73	ng/L	0.0173	1					
Perfluorooctanoic acid (PFOA)		5.45	0.693	1.73	ng/L	0.0173	1					
Perfluoropentane sulfonic acid (PFPeS)	U	ND	0.572	1.63	ng/L	0.0173	1					
Perfluoropentanoic acid (PFPeA)	J	1.01	0.572	1.73	ng/L	0.0173	1					
Perfluorotetradecanoic acid (PFTDA)	U	ND	0.693	1.73	ng/L	0.0173	1					

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: April 9, 2021

Company : Environmental Conservation Laboratories, Inc.
Address : 10775 Central Port Drive

Orlando, Florida 32824
Contact: Russ Erickson
Project: PFAS-Erickson

Client Sample ID: GW-7 Project: ENCL00120
Sample ID: 538254008 Client ID: ENCL001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst Date	Time	Batch	Method
LCMSMS PFCs											
EPA 537Mod PFCs by LC-MS/MS "As Received"											
Perfluorotridecanoic acid (PFTrDA)	U	ND	0.572	1.73	ng/L	0.0173	1				
Perfluoroundecanoic acid (PFUnDA)	U	ND	0.572	1.73	ng/L	0.0173	1				

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 537.1 Mod, PFAS, Compl	PFCs Extraction in Liquid	TC2	03/22/21	1018	2105730

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 537.1 Mod, PFAS, Compliant with QSM Table B-15	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: April 9, 2021

Company : Environmental Conservation Laboratories, Inc.
Address : 10775 Central Port Drive

Orlando, Florida 32824
Contact: Russ Erickson
Project: PFAS-Erickson

Client Sample ID: GW-8
Sample ID: 538254009
Matrix: Ground Water
Collect Date: 16-MAR-21 15:16
Receive Date: 18-MAR-21
Collector: Client

Project: ENCL00120
Client ID: ENCL001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
LCMSMS PFCs												
EPA 537Mod PFCs by LC-MS/MS "As Received"												
1H, 1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2 FTS)	U	ND	1.13	3.29	ng/L	0.0172	1	JLS	03/23/21	1638	2105790	1
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	U	ND	1.13	3.43	ng/L	0.0172	1					
N-Methylperfluorooctane sulfonamide (NMeFOSA)	U	ND	1.13	3.43	ng/L	0.0172	1					
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	U	ND	1.13	3.43	ng/L	0.0172	1					
Perfluorobutane sulfonic acid (PFBS)		1.89	0.566	1.53	ng/L	0.0172	1					
Perfluorobutanoic acid (PFBA)		21.6	0.686	1.72	ng/L	0.0172	1					
Perfluorodecane sulfonic acid (PFDS)	U	ND	0.566	1.66	ng/L	0.0172	1					
Perfluorodecanoic acid (PFDA)	U	ND	0.669	1.72	ng/L	0.0172	1					
Perfluorododecanoic acid (PFDOA)	U	ND	0.566	1.72	ng/L	0.0172	1					
Perfluoroheptane sulfonic acid (PFHpS)	J	1.04	0.566	1.63	ng/L	0.0172	1					
Perfluoroheptanoic acid (PFHpA)		5.41	0.566	1.72	ng/L	0.0172	1					
Perfluorohexane sulfonic acid (PFHxS)		7.63	0.566	1.56	ng/L	0.0172	1					
Perfluorohexanoic acid (PFHxA)		9.73	0.686	1.72	ng/L	0.0172	1					
Perfluorononane sulfonic acid (PFNS)	U	ND	0.601	1.65	ng/L	0.0172	1					
Perfluorononanoic acid (PFNA)	J	1.19	0.566	1.72	ng/L	0.0172	1					
Perfluorooctane sulfonamide (PFOSAm)	U	ND	0.566	1.72	ng/L	0.0172	1					
Perfluorooctane sulfonic acid (PFOS)		113	0.686	1.72	ng/L	0.0172	1					
Perfluorooctanoic acid (PFOA)		6.62	0.686	1.72	ng/L	0.0172	1					
Perfluoropentane sulfonic acid (PFPeS)	J	0.839	0.566	1.61	ng/L	0.0172	1					
Perfluoropentanoic acid (PFPeA)		21.4	0.566	1.72	ng/L	0.0172	1					
Perfluorotetradecanoic acid (PFTDA)	U	ND	0.686	1.72	ng/L	0.0172	1					
Perfluorotridecanoic acid (PFTrDA)	U	ND	0.566	1.72	ng/L	0.0172	1					
Perfluoroundecanoic acid (PFUnDA)	U	ND	0.566	1.72	ng/L	0.0172	1					
1H, 1H, 2H, 2H-Perfluorohexane	U	ND	5.66	16.1	ng/L	0.0172	5	JLS	03/24/21	1155	2105790	2

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: April 9, 2021

Company : Environmental Conservation Laboratories, Inc.
Address : 10775 Central Port Drive

Orlando, Florida 32824
Contact: Russ Erickson
Project: PFAS-Erickson

Client Sample ID: GW-8
Sample ID: 538254009

Project: ENCL00120
Client ID: ENCL001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst Date	Time	Batch	Method
LCMSMS PFCs											
EPA 537Mod PFCs by LC-MS/MS "As Received"											
sulfonic acid (4:2 FTS)											
1H, 1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2 FTS)	U	ND	5.66	16.3	ng/L	0.0172	5				

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 537.1 Mod, PFAS, Compl	PFCs Extraction in Liquid	TC2	03/22/21	1018	2105730

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 537.1 Mod, PFAS, Compliant with QSM Table B-15	
2	EPA 537.1 Mod, PFAS, Compliant with QSM Table B-15	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

QC Summary

Report Date: April 9, 2021

Environmental Conservation Laboratories, Inc.
10775 Central Port Drive
Orlando, Florida

Contact: **Russ Erickson**

Workorder: **538254**

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Perfluorinated Compounds											
Batch 2105790											
QC1204779224 LCS											
1H, 1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2 FTS)	18.5			19.0	ng/L		103	(60%-141%)	JLS	03/23/21	10:07
1H, 1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2 FTS)	18.0			17.5	ng/L		97	(56%-151%)			
1H, 1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2 FTS)	18.3			15.4	ng/L		84	(60%-153%)			
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	19.3			17.6	ng/L		92	(57%-139%)			
N-Methylperfluorooctane sulfonamide (NMeFOSA)	19.3			20.9	ng/L		109	(20%-154%)			
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	19.3			18.8	ng/L		98	(59%-145%)			
Perfluorobutane sulfonic acid (PFBS)	17.0			18.3	ng/L		108	(70%-144%)			
Perfluorobutanoic acid (PFBA)	19.3			21.2	ng/L		110	(73%-151%)			
Perfluorodecane sulfonic acid (PFDS)	18.6			20.7	ng/L		111	(58%-134%)			
Perfluorodecanoic acid (PFDA)	19.3			21.5	ng/L		112	(65%-145%)			
Perfluorododecanoic acid (PFDOA)	19.3			21.6	ng/L		112	(65%-137%)			
Perfluoroheptane sulfonic acid (PFHpS)	18.3			20.6	ng/L		112	(68%-138%)			
Perfluoroheptanoic acid (PFHpA)	19.3			18.7	ng/L		97	(71%-133%)			
Perfluorohexane sulfonic acid (PFHxS)	17.6			19.2	ng/L		109	(67%-145%)			

QC Summary

Workorder: 538254

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Perfluorinated Compounds											
Batch 2105790											
Perfluorohexanoic acid (PFHxA)	19.3			19.8	ng/L		103	(70%-138%)	JLS	03/23/21	10:07
Perfluorononane sulfonic acid (PFNS)	18.5			19.8	ng/L		107	(64%-133%)			
Perfluorononanoic acid (PFNA)	19.3			19.3	ng/L		100	(69%-133%)			
Perfluorooctane sulfonamide (PFOSAm)	19.3			20.4	ng/L		106	(64%-134%)			
Perfluorooctane sulfonic acid (PFOS)	19.3			21.7	ng/L		113	(65%-133%)			
Perfluorooctanoic acid (PFOA)	19.3			17.8	ng/L		93	(66%-139%)			
Perfluoropentane sulfonic acid (PFPeS)	18.1			19.9	ng/L		110	(67%-136%)			
Perfluoropentanoic acid (PFPeA)	19.3			18.3	ng/L		95	(72%-143%)			
Perfluorotetradecanoic acid (PFTDA)	19.3			19.6	ng/L		102	(66%-138%)			
Perfluorotridecanoic acid (PFTrDA)	19.3			22.0	ng/L		114	(58%-140%)			
Perfluoroundecanoic acid (PFUnDA)	19.3			17.9	ng/L		93	(63%-135%)			
QC1204779223 MB											
1H, 1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2 FTS)			U	ND	ng/L					03/23/21	09:54
1H, 1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2 FTS)			U	ND	ng/L						
1H, 1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2 FTS)			U	ND	ng/L						
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)			U	ND	ng/L						

QC Summary

Workorder: 538254

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Perfluorinated Compounds											
Batch 2105790											
N-Methylperfluorooctane sulfonamide (NMeFOSA)			U	ND	ng/L				JLS	03/23/21	09:54
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)			U	ND	ng/L						
Perfluorobutane sulfonic acid (PFBS)			U	ND	ng/L						
Perfluorobutanoic acid (PFBA)			U	ND	ng/L						
Perfluorodecane sulfonic acid (PFDS)			U	ND	ng/L						
Perfluorodecanoic acid (PFDA)			U	ND	ng/L						
Perfluorododecanoic acid (PFDOA)			U	ND	ng/L						
Perfluoroheptane sulfonic acid (PFHpS)			U	ND	ng/L						
Perfluoroheptanoic acid (PFHpA)			U	ND	ng/L						
Perfluorohexane sulfonic acid (PFHxS)			U	ND	ng/L						
Perfluorohexanoic acid (PFHxA)			U	ND	ng/L						
Perfluorononane sulfonic acid (PFNS)			U	ND	ng/L						
Perfluorononanoic acid (PFNA)			U	ND	ng/L						
Perfluorooctane sulfonamide (PFOSAm)			U	ND	ng/L						
Perfluorooctane sulfonic acid (PFOS)			U	ND	ng/L						

QC Summary

Workorder: 538254

Parmname	NOM		Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date Time
Perfluorinated Compounds											
Batch 2105790											
Perfluorooctanoic acid (PFOA)				U	ND	ng/L				JLS	03/23/21 09:54
Perfluoropentane sulfonic acid (PFPeS)				U	ND	ng/L					
Perfluoropentanoic acid (PFPeA)				U	ND	ng/L					
Perfluorotetradecanoic acid (PFTDA)				U	ND	ng/L					
Perfluorotridecanoic acid (PFTrDA)				U	ND	ng/L					
Perfluoroundecanoic acid (PFUnDA)				U	ND	ng/L					
QC1204779225 538146002 MS											
1H, 1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2 FTS)	17.7	U	ND		21.4	ng/L		121	(40%-152%)		03/23/21 10:33
1H, 1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2 FTS)	17.2	U	ND	J	16.9	ng/L		98	(53%-151%)		03/23/21 13:09
1H, 1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2 FTS)	17.5	U	ND		18.7	ng/L		107	(50%-154%)		
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	18.4	U	ND		20.4	ng/L		111	(38%-148%)		03/23/21 10:33
N-Methylperfluorooctane sulfonamide (NMeFOSA)	18.4	U	ND		19.9	ng/L		108	(26%-139%)		
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	18.4	U	ND		18.7	ng/L		102	(40%-144%)		
Perfluorobutane sulfonic acid (PFBS)	16.3	U	ND		17.6	ng/L		105	(52%-147%)		
Perfluorobutanoic acid (PFBA)	18.4	U	ND		24.0	ng/L		127	(57%-149%)		
Perfluorodecane sulfonic acid (PFDS)	17.8	U	ND		17.4	ng/L		98	(45%-136%)		

QC Summary

Workorder: 538254

Parmname	NOM		Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Perfluorinated Compounds												
Batch 2105790												
Perfluorodecanoic acid (PFDA)	18.4	U	ND		20.1	ng/L		109	(44%-143%)	JLS	03/23/21	10:33
Perfluorododecanoic acid (PFDOA)	18.4	U	ND		21.1	ng/L		115	(45%-142%)			
Perfluoroheptane sulfonic acid (PFHpS)	17.5	U	ND		18.9	ng/L		108	(56%-149%)			
Perfluoroheptanoic acid (PFHpA)	18.4	U	ND		19.0	ng/L		103	(51%-149%)			
Perfluorohexane sulfonic acid (PFHxS)	16.8	U	ND		16.1	ng/L		95	(50%-148%)			
Perfluorohexanoic acid (PFHxA)	18.4	U	ND		21.4	ng/L		116	(50%-150%)			
Perfluorononane sulfonic acid (PFNS)	17.7	U	ND		19.6	ng/L		111	(48%-138%)			
Perfluorononanoic acid (PFNA)	18.4	U	ND		18.8	ng/L		102	(54%-146%)			
Perfluorooctane sulfonamide (PFOSAm)	18.4	U	ND		19.4	ng/L		106	(49%-143%)			
Perfluorooctane sulfonic acid (PFOS)	18.4		2.00		22.5	ng/L		111	(42%-150%)			
Perfluorooctanoic acid (PFOA)	18.4	U	ND		18.8	ng/L		100	(50%-151%)			
Perfluoropentane sulfonic acid (PFPeS)	17.3	U	ND		17.1	ng/L		99	(55%-151%)			
Perfluoropentanoic acid (PFPeA)	18.4	U	ND		18.7	ng/L		102	(51%-146%)			
Perfluorotetradecanoic acid (PFTDA)	18.4	U	ND		19.2	ng/L		104	(41%-148%)			
Perfluorotridecanoic acid (PFTrDA)	18.4	U	ND		19.9	ng/L		108	(41%-142%)			

QC Summary

Workorder: 538254

Parmname	NOM		Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Perfluorinated Compounds												
Batch 2105790												
Perfluoroundecanoic acid (PFUnDA)	18.4	U	ND		18.3	ng/L		99	(44%-141%)	JLS	03/23/21	10:33
QC1204779226 538146002 MSD												
1H, 1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2 FTS)	17.5	U	ND		18.7	ng/L	13	107	(0%-44%)		03/23/21	10:46
1H, 1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2 FTS)	17.1	U	ND		19.6	ng/L	15	115	(0%-39%)		03/24/21	11:42
1H, 1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2 FTS)	17.4	U	ND		18.8	ng/L	1	108	(0%-40%)			
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	18.3	U	ND		20.0	ng/L	2	109	(0%-36%)		03/23/21	10:46
N-Methylperfluorooctane sulfonamide (NMeFOSA)	18.3	U	ND		19.8	ng/L	0	108	(0%-40%)			
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	18.3	U	ND		20.1	ng/L	7	110	(0%-36%)			
Perfluorobutane sulfonic acid (PFBS)	16.2	U	ND		17.7	ng/L	1	107	(0%-27%)			
Perfluorobutanoic acid (PFBA)	18.3	U	ND		23.7	ng/L	1	127	(0%-23%)			
Perfluorodecane sulfonic acid (PFDS)	17.6	U	ND		15.9	ng/L	9	90	(0%-36%)			
Perfluorodecanoic acid (PFDA)	18.3	U	ND		20.8	ng/L	3	114	(0%-35%)			
Perfluorododecanoic acid (PFDOA)	18.3	U	ND		20.5	ng/L	3	112	(0%-30%)			
Perfluoroheptane sulfonic acid (PFHpS)	17.4	U	ND		17.9	ng/L	6	103	(0%-30%)			
Perfluoroheptanoic acid (PFHpA)	18.3	U	ND		21.1	ng/L	10	115	(0%-26%)			
Perfluorohexane sulfonic acid (PFHxS)	16.7	U	ND		15.9	ng/L	1	95	(0%-31%)			

QC Summary

Workorder: 538254

Parmname	NOM		Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time
Perfluorinated Compounds												
Batch 2105790												
Perfluorohexanoic acid (PFHxA)	18.3	U	ND		19.2	ng/L	11	104	(0%-26%)	JLS	03/23/21	10:46
Perfluorononane sulfonic acid (PFNS)	17.5	U	ND		17.0	ng/L	14	97	(0%-35%)			
Perfluorononanoic acid (PFNA)	18.3	U	ND		18.5	ng/L	2	101	(0%-30%)			
Perfluorooctane sulfonamide (PFOSAm)	18.3	U	ND		20.8	ng/L	7	114	(0%-28%)			
Perfluorooctane sulfonic acid (PFOS)	18.3		2.00		21.3	ng/L	6	106	(0%-31%)			
Perfluorooctanoic acid (PFOA)	18.3	U	ND		17.8	ng/L	5	95	(0%-28%)			
Perfluoropentane sulfonic acid (PFPeS)	17.2	U	ND		15.8	ng/L	8	92	(0%-31%)			
Perfluoropentanoic acid (PFPeA)	18.3	U	ND		17.7	ng/L	5	97	(0%-24%)			
Perfluorotetradecanoic acid (PFTDA)	18.3	U	ND		19.0	ng/L	1	104	(0%-32%)			
Perfluorotridecanoic acid (PFTrDA)	18.3	U	ND		22.0	ng/L	10	121	(0%-35%)			
Perfluoroundecanoic acid (PFUnDA)	18.3	U	ND		18.6	ng/L	2	102	(0%-34%)			

Notes:

The Qualifiers in this report are defined as follows:

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B The target analyte was detected in the associated blank.
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample

QC Summary

Workorder: 538254

Parmname	NOM	Sample	Qual	QC	Units	RPD/D%	REC%	Range	Anlst	Date	Time

E	Concentration of the target analyte exceeds the instrument calibration range
H	Analytical holding time was exceeded
J	See case narrative for an explanation
J	Value is estimated
JNX	Non Calibrated Compound
N	Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N	Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A	RPD or %Recovery limits do not apply.
N1	See case narrative
ND	Analyte concentration is not detected above the detection limit
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P	Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, the difference is >70%.
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
R	Sample results are rejected
U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
UJ	Compound cannot be extracted
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y	QC Samples were not spiked with this compound
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h	Preparation or preservation holding time was exceeded

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
* Indicates that a Quality Control parameter was not within specifications.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

SUBCONTRACT ORDER

5382254

ENCO Orlando

AE02130

* Standard GEL TAT *
3-18-21 D.L.

SENDING LABORATORY:	RECEIVING LABORATORY:
ENCO Orlando	GEL Laboratories, Inc. (SC)
10775 Central Port Drive	2040 Savage Road
Orlando, FL 32824	Charleston, SC 29407
Phone: 407.826.5314	Phone :(843) 556-8171
Fax: 407.850.6945	Fax: (843) 766-1178
Project Manager: Carlene S Pasipanki	Project State of Origin: Florida

Sub Lab ID	Originating Lab ID	Client Matrix	Date Sampled	Sample Comments
	GW1	Ground Water	16-Mar-21 10:01	

Analysis	Due	Expires	Analysis Comments
PFAS	24-Mar-21 15:00	30-Mar-21 10:01	
Containers Supplied:			
250mLP (E)	250mLP (F)	5mLV (G)	

Sub Lab ID	Originating Lab ID	Client Matrix	Date Sampled	Sample Comments
	GW2	Ground Water	16-Mar-21 10:49	

Analysis	Due	Expires	Analysis Comments
PFAS	24-Mar-21 15:00	30-Mar-21 10:49	
Containers Supplied:			
250mLP (E)	250mLP (F)	5mLV (G)	

Sub Lab ID	Originating Lab ID	Client Matrix	Date Sampled	Sample Comments
	Field Blank	Ground Water	16-Mar-21 11:26	Field Blank

Analysis	Due	Expires	Analysis Comments
PFAS	24-Mar-21 15:00	30-Mar-21 11:26	
Containers Supplied:			
250mLP (E)	250mLP (F)		

Sub Lab ID	Originating Lab ID	Client Matrix	Date Sampled	Sample Comments
	GW-3	Ground Water	16-Mar-21 11:48	

Analysis	Due	Expires	Analysis Comments
PFAS	24-Mar-21 15:00	30-Mar-21 11:48	
Containers Supplied:			
250mLP (E)	250mLP (F)	5mLV (G)	

Sub Lab ID	Originating Lab ID	Client Matrix	Date Sampled	Sample Comments
	GW-4	Ground Water	16-Mar-21 12:44	

Analysis	Due	Expires	Analysis Comments
PFAS	24-Mar-21 15:00	30-Mar-21 12:44	
Containers Supplied:			
250mLP (E)	250mLP (F)	5mLV (G)	

Released By	Date	Received By	Date
	3-19-21		3/18/21 9:48
Released By	Date	Received By	Date

SUBCONTRACT ORDER

ENCO Orlando

AE02130

Sub Lab ID	Originating Lab ID	Client Matrix	Date Sampled	Sample Comments
	GW-5	Ground Water	16-Mar-21 13:36	

Analysis	Due	Expires	Analysis Comments
PFAS	24-Mar-21 15:00	30-Mar-21 13:36	Extra Containers for MS/MSD, if needed. 03/17/21 DC

Containers Supplied:

250mLP (E)	250mLP (F)	250mLP (G)	250mLP (H)	250mLP (I)
250mLP (J)	250mLP (K)	250mLP (L)	5mLV (M)	

Sub Lab ID	Originating Lab ID	Client Matrix	Date Sampled	Sample Comments
	GW6	Ground Water	16-Mar-21 14:23	

Analysis	Due	Expires	Analysis Comments
PFAS	24-Mar-21 15:00	30-Mar-21 14:23	

Containers Supplied:

250mLP (E)	250mLP (F)	5mLV (G)

Sub Lab ID	Originating Lab ID	Client Matrix	Date Sampled	Sample Comments
	GW-7	Ground Water	16-Mar-21 15:49	

Analysis	Due	Expires	Analysis Comments
PFAS	24-Mar-21 15:00	30-Mar-21 15:49	

Containers Supplied:

250mLP (E)	250mLP (F)	5mLV (G)

Sub Lab ID	Originating Lab ID	Client Matrix	Date Sampled	Sample Comments
	GW-8	Ground Water	16-Mar-21 15:16	

Analysis	Due	Expires	Analysis Comments
PFAS	24-Mar-21 15:00	30-Mar-21 15:16	

Containers Supplied:

250mLP (E)	250mLP (F)	5mLV (G)

Released By	Date	Received By	Date
		[signature]	3/16/21 9:40
Released By	Date	Received By	Date

GEL Laboratories LLC

LF

SAMPLE RECEIPT & REVIEW FORM

Client: ENCL	SDG/AR/COC/Work Order: 538234
Received By: AJA	Date Received: 3/18/21
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other 9531 6419 6321

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A)Shipped as a DOT Hazardous?		✓	Hazard Class Shipped: UN#: If UN2910, is the Radioactive Shipment Survey Compliant? Yes___ No___
B) Did the client designate the samples are to be received as radioactive?		✓	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?		✓	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?		✓	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?		✓	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	✓			Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)*	✓			Preservation Method: (Wet Ice) Ice Packs Dry Ice None Other: *all temperatures are recorded in Celsius TEMP: 1°
4	Daily check performed and passed on IR temperature gun?	✓			Temperature Device Serial #: IR-21 Secondary Temperature Device Serial # (If Applicable):
5	Sample containers intact and sealed?	✓			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6	Samples requiring chemical preservation at proper pH?			✓	Sample ID's and Containers Affected: If Preservation added, Lot#:
7	Do any samples require Volatile Analysis?			✓	If Yes, are Encores or Soil Kits present for solids? Yes___ No___ NA___(If yes, take to VOA Freezer) Do liquid VOA vials contain acid preservation? Yes___ No___ NA___(If unknown, select No) Are liquid VOA vials free of headspace? Yes___ No___ NA___ Sample ID's and containers affected:
8	Samples received within holding time?	✓			ID's and tests affected:
9	Sample ID's on COC match ID's on bottles?	✓			ID's and containers affected:
10	Date & time on COC match date & time on bottles?	✓			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11	Number of containers received match number indicated on COC?	✓			Circle Applicable: No container count on COC Other (describe)
12	Are sample containers identifiable as GEL provided by use of GEL labels?	✓			
13	COC form is properly signed in relinquished/received sections?	✓			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials MR Date 3/19/21 Page 1 of 1

GL-CHL-SFI-001 Rev 7

List of current GEL Certifications as of 31 March 2021

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122021-1
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2019-165
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-21-19
Utah NELAP	SC000122020-34
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

LCMSMS-Misc
Technical Case Narrative
Environmental Conservation Laboratories
SDG #: AE02130
Work Order #: 538254

Product: **The Extraction and Analysis of Per and Polyfluroalkyl Substances Using LCMSMS**
Analytical Method: EPA 537.1 Mod, PFAS, Compliant with QSM Table B-15
Analytical Procedure: GL-OA-E-076 REV# 10
Analytical Batches: 2105790 and 2105730

The following samples were analyzed using the above methods and analytical procedure(s).

GEL Sample ID#	Client Sample Identification
538254001	GW-1
538254002	GW-2
538254003	FIELD BLANK
538254004	GW-3
538254005	GW-4
538254006	GW-5
538254007	GW-6
538254008	GW-7
538254009	GW-8
1204779223	Method Blank (MB)
1204779224	Laboratory Control Sample (LCS)
1204779225	538146002(NonSDG) Matrix Spike (MS)
1204779226	538146002(NonSDG) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions
The following sample was diluted to bring the over range concentration within the calibration range. 538254006 (GW-5). The following samples and/or QC were diluted due to the Internal Standard Recovery not within the limits. 538254001 (GW-1), 538254002 (GW-2) and 538254009 (GW-8).

Analyte	538254			
	001	002	006	009
1H, 1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2 FTS)	5X	1X	1X	5X
1H, 1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2 FTS)	5X	1X	1X	5X
1H, 1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2 FTS)	5X	1X	1X	1X
N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	5X	1X	1X	1X
N-Methylperfluorooctane sulfonamide (NMeFOSA)	5X	1X	1X	1X
N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	5X	1X	1X	1X
Perfluorobutane sulfonic acid (PFBS)	5X	1X	1X	1X

Perfluorobutanoic acid (PFBA)	5X	5X	1X	1X
Perfluorodecane sulfonic acid (PFDS)	5X	1X	1X	1X
Perfluorodecanoic acid (PFDA)	5X	1X	1X	1X
Perfluorododecanoic acid (PFDOA)	5X	1X	1X	1X
Perfluoroheptane sulfonic acid (PFHpS)	5X	1X	1X	1X
Perfluoroheptanoic acid (PFHpA)	5X	1X	1X	1X
Perfluorohexane sulfonic acid (PFHxS)	5X	1X	1X	1X
Perfluorohexanoic acid (PFHxA)	5X	1X	1X	1X
Perfluorononane sulfonic acid (PFNS)	5X	1X	1X	1X
Perfluorononanoic acid (PFNA)	5X	1X	1X	1X
Perfluorooctane sulfonamide (PFOSAm)	5X	1X	1X	1X
Perfluorooctane sulfonic acid (PFOS)	5X	1X	5X	1X
Perfluorooctanoic acid (PFOA)	5X	1X	1X	1X
Perfluoropentane sulfonic acid (PFPeS)	5X	1X	1X	1X
Perfluoropentanoic acid (PFPeA)	5X	1X	1X	1X
Perfluorotetradecanoic acid (PFTDA)	5X	1X	1X	1X
Perfluorotridecanoic acid (PFTrDA)	5X	1X	1X	1X
Perfluoroundecanoic acid (PFUnDA)	5X	1X	1X	1X

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314

4810 Executive Park Court, Suite 111
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

www.encolabs.com

Client Name: Universal Engineering Sciences ENV (UN004)	Project Number: 0340.2100012.0000
Address: 820 Brevard Ave.	Project Name/Desc: Pelican Coast Soil and Groundwater Sampling
City/ST/Zip: Rockledge, FL 32955	PO # / Billing Info:
Tel: (321) 638-0808 Fax: (321) 638-0978	Reporting Contact: Teresa Hardy
Sampler(s) Name, Affiliation (Print): Brendan Selph	Billing Contact: Teresa Hardy
Sampler(s) Signature:	Site Location / Time Zone: Satellite Beach EST

Requested Analyses

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due ___/___/___

Lab Workorder AE02130 ~~AE01807~~

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260D	8081B	Sample Comments
	GW1	3/16/21	10:01	G	GW	4	X	X	
	GW2	3/16/21	10:49	G	GW	4	X	X	
	Field Blank	3/16/21	11:26	G	FB	4	X	X	
	GW-3	↓	11:48	G	GW	4	X	X	
	GW-4	↓	12:44	G	GW	4	X	X	
	GW-5	↓	1336	G	GW	4	X	X	
	GW-6	↓	1423	G	GW	4	X	X	
	GW-7	↓	1549	G	GW	4	X	X	
	GW-8	↓	1516	G	GW	4	X	X	

Preservation (See Codes) (Combine as necessary)

<-- Total # of Containers

Sample Kit Prepared By: CP	Date/Time: 3/5/21 13:50	Relinquished By: Clarence S. Rasipanki	Date/Time: 3/5/21 13:50	Received By:	Date/Time:
Comments/Special Reporting Requirements:		Relinquished By:	Date/Time: 3/17/21 11:00	Received By: M Boyd	Date/Time: 3/17/21 1100
		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Cooler #'s & Temps on Receipt: C-2104 4.0°C, C-2214 1.3°C		Condition Upon Receipt: ___ Acceptable ___ Unacceptable	

Matrix : **GW**-Groundwater **SO**-Soil **DW**-Drinking Water **SE**-Sediment **SW**-Surface Water **WW**-Wastewater **A**-Air **O**-Other (detail in comments)

Preservation: **I**-Ice **H**-HCl **N**-HNO3 **S**-H2SO4 **NO**-NaOH **O**-Other (detail in comments)

APPENDIX E

UNIVERSAL
ENGINEERING SCIENCES

Form FD 9000-24

GROUNDWATER SAMPLING LOG

0340.21 0012.0000

SITENAME	Pelican Coast	SITELOCATION:	
WELL NO:	~~MW-1~~ GW-1	SAMPLE ID:	~~MW-1~~ GW-1
DATE:	3-16-21		

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
1"	1/8	3.5 feet to 7.5 feet	4.5	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (7.5 feet − 4.5 feet) X .08 gallons/foot = .24 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
5.5	5.5	9:41	10:01	2.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
9:45	.5	.5	.25	4.5	6.69	23.64	.954	7.3% .61	26.7	CL	NO
9:47	.25	.75	↓	↓	6.67	23.61	.952	6.2% .56	20.3	↓	↓
9:49	.25	1.0	↓	↓	6.67	23.61	.950	6.8% .59	23.3	↓	↓
9:51	.25	1.25	↓	↓	6.65	23.68	.950	6.6% .54	25.7	↓	↓
9:53	.25	1.5	↓	↓	6.65	23.71	.951	6.2% .51	25.3	↓	↓
9:55	.25	1.75	↓	↓	6.65	23.72	.950	6.0% .48	16.9	↓	↓
9:57	.25	2.0	↓	↓	6.64	23.74	.952	4.9% .42	15.2	↓	↓
9:59	.25	2.25	↓	↓	6.64	23.75	.949	4.3% .36	13.7	↓	↓
10:01	.25	2.50	↓	↓	6.63	23.77	.949	4.3% .37	12.9		

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:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Brandon Selph Universal Engineering	Brandon	10:01	

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: HDP	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
~~MW-1~~	2	P	250	Ice	none		PFAS	APP	
~~MW-4~~	1	P	15mL	Ice	↓		↓	APP	
GW-1 ↓	3	CG	40mL	HCL	↓		8260D	RFPP	
↓	1	AG	250mL	Ice	↓		8081B	APP	

REMARKS:
Temp well was installed at 10:15 Purged till 12:25 before starting sampling log. Formation of silty soils made for low production of this well.

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

SAMPLING EQUIPMENT CODES: **APP** = After 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: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

4' screen

Form FD 9000-24

GROUNDWATER SAMPLING LOG

0340.2100012.0000

SITENAME	Pelican Coast	SITELOCATION:	
WELL NO:	~~MW-2~~ GW-2	SAMPLE ID:	~~MW-2~~ GW-2
DATE:	3-16-21		

PURGING DATA

WELL DIAMETER (inches): 1"	TUBING DIAMETER (inches): 1/8	WELL SCREEN INTERVAL DEPTH: 4 feet to 8 feet	STATIC DEPTH TO WATER (feet):	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)
= (8 feet – 5 feet) X .08 gallons/foot = 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): 6.6	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 6.6	PURGING INITIATED AT: 10:35	PURGING ENDED AT: 10:49	TOTAL VOLUME PURGED (gallons): 1.25

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
10:39	.5	.5	.125	5'	6.57	24.63	.745	4.1% 34	36.3	Tr	no
10:43	.5	1.0	↓	5'	6.57	24.93	.743	3.4% 28	20.5	↓	↓
10:45	.25	1.25	↓	↓	6.56	24.90	.744	3.7% 31	14.9		
10:47	.25	1.5	↓	↓	6.64	24.92	.743	3.7% 31	9.89		
10:49	.25	1.75	↓	↓	6.64	24.92	.743	4.1% 32	6.23	↓	↓

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: Brandon Selph Universal Engineering	SAMPLER(S) SIGNATURE(S): Brandon Selph	SAMPLING INITIATED AT: 10:49	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 6.6	TUBING MATERIAL CODE: HDP	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: _____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
GW-2	2	P	250mL	Ice	none		PFAS	APP	
↓	1	P	15mL	Ice	↓		↓	APP	
	3	CG	40mL	HCl			8260D	RFPP	
↓	1	AG	250mL	Ice	↓		8081B	APP	

REMARKS:
Temp well was installed at 10:15 Purged till 12:25 before starting sampling log. Formation of silty soils made for low production of this well.

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

SAMPLING EQUIPMENT CODES: **APP** = After 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: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

0340.21000012.0000

SITENAME	Pelican Coast	SITELOCATION:	
WELL NO: ~~GW-3~~ GW-3	SAMPLE ID: ~~GW-3~~ GW3	DATE: 3-16-21	

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: 5 feet to 9 feet	STATIC DEPTH TO WATER (feet): 5.5	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)
= (9 feet – 5.5 feet) X .08 gallons/foot = .28 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): 10.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 10.5	PURGING INITIATED AT: 11:36	PURGING ENDED AT: 11:48	TOTAL VOLUME PURGED (gallons): 1.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
11:40	.5	.5	.125	5.5	6.36	26.19	.694	27%.36	33.1	21	10
11:42	.25	.75	↓	↓	6.35	26.16	.691	3.2%.27	35.5	↓	↓
11:44	.25	1.0			6.35	25.74	.691	24%.19	10.3	↓	↓
11:46	.25	1.25			6.35	25.74	.690	2.4%.19	9.86	↓	↓
11:48	.25	1.5			6.35	25.73	.690	2.3%.19	8.11	↓	↓

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: Brandon Selph Universal Engineering	SAMPLER(S) SIGNATURE(S): Brandon Selph	SAMPLING INITIATED AT: 11:48	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 10.5	TUBING MATERIAL CODE: HDP	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
GW3 ~~GW-3~~	2	P	250mL	Ice	none		PFAS	APP	
	~~2~~	~~P~~	~~1~~	~~Ice~~	~~None~~		~~PFAS/1,4-Dio~~	~~APP~~	
	1	P	15mL	Ice			PFAS	APP	
	3	CG	40mL	HCl			8260D	RFPP	
	1	AG	250mL	Ice			8181D	APP	

REMARKS:
Temp well was installed at 10:15 Purged till 12:25 before starting sampling log. Formation of silty soils made for low production of this well.

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

SAMPLING EQUIPMENT CODES: **APP** = After 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: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Field Blank 11:25 PFAS
11:26

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITENAME: Pelican Coast	SITELOCATION:	
WELL NO: GW-4	SAMPLE ID: GW-4	DATE: 3-16-21

PURGING DATA

WELL DIAMETER (inches): 1"	TUBING DIAMETER (inches): 1/8	WELL SCREEN INTERVAL DEPTH: 5 feet to 9 feet	STATIC DEPTH TO WATER (feet): 5.5	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)
= (9 feet − 5.5 feet) X .08 gallons/foot = .28 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): 7	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7	PURGING INITIATED AT: 12:30	PURGING ENDED AT: 12:44	TOTAL VOLUME PURGED (gallons): 1.75

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
12:34	.5	.5	.125	5.5	~~6.66~~	~~24.14~~	~~.532~~	8.7% .68	74.4	< 1	no
12:36	.25	.75	↓	↓	6.57	25.94	.532	7.5% .57	27.8	↓	↓
12:38	.25	1.0	↓	↓	6.53	25.62	.531	6.1% .48	19.3	↓	↓
12:40	.25	1.25	↓	↓	6.50	25.47	.530	3.6% .29	17.6	↓	↓
12:42	.25	1.5	↓	↓	6.49	25.38	.528	2.8% .23	17.8	↓	↓
12:44	.25	1.75	↓	↓	6.49	25.32	.527	2.6% .21	15.6	↓	↓

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: Brandon Selph Universal Engineering	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 12:44	SAMPLING ENDED AT: 12:48
PUMP OR TUBING DEPTH IN WELL (feet): 7	TUBING MATERIAL CODE: HDP	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
GW-4	2	P	250mL	Ice	none		PFAS	APP	200mL/min
↓	1	P	125mL	↓	↓		PFAS	APP	↓
↓	1	AG	250mL	↓	↓		8081B	APP	↓
↓	3	CG	40mL	HCL	↓		~~RFPP~~ 8260D	RFPP	

REMARKS:
Temp well was installed at 10:15 Purged till 12:25 before starting sampling log. Formation of silty soils made for low production of this well.

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

SAMPLING EQUIPMENT CODES: **APP** = After 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: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

0340.2100/12.0000

SITENAME	Pelican Coast	SITELOCATION:	
WELL NO:	GW-5	SAMPLE ID: GW-5	DATE: 3-16-21

PURGING DATA

WELL DIAMETER (inches): 1"	TUBING DIAMETER (inches): 1/8	WELL SCREEN INTERVAL DEPTH: 5 feet to 9 feet	STATIC DEPTH TO WATER (feet): 5.5	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)
= (9 feet – 5.5 feet) X .08 gallons/foot = .28 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): 7	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7	PURGING INITIATED AT: 1310	PURGING ENDED AT: 1336	TOTAL VOLUME PURGED (gallons): 3.25

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1314	.5	.5	.125	5.5	6.52	25.28	.672	10.7% .88	274	<1	no
1316	.25	.75	↓	↓	6.52	25.28	.672	10.1% .82	60.0	↓	↓
1318	.25	1.0	↓	↓	6.50	25.50	.673	10.9% .90	35.2	↓	↓
1320	.25	1.25	↓	↓	6.50	25.78	.678	13.4% 1.08	37.4	↓	↓
1324	.5	1.75	↓	↓	6.51	25.69	.680	5.4% .51	19.3	↓	↓
1326	.25	2.0	↓	↓	6.51	25.72	.679	8.3% .70	13.9	↓	↓
1328	.25	2.25	↓	↓	6.51	25.69	.678	12.8% 1.04	11.0	↓	↓
1330	.25	2.5	↓	↓	6.51	25.70	.678	10.0% .82	10.1	↓	↓
1332	.25	2.75	↓	↓	6.51	25.73	.678	11.7% .93	9.06	↓	↓
1334	.25	3.0	↓	↓	6.51	25.70	.678	13.4% 1.12	7.92	↓	↓
1336	.25	3.25	↓	↓	6.51	25.71	.679	14.6% 1.19	7.14	↓	↓

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: Brandon Selph Universal Engineering	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1336	SAMPLING ENDED AT: 1349
PUMP OR TUBING DEPTH IN WELL (feet): 7	TUBING MATERIAL CODE: HDP	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: _____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
GW-5	6	P	250mL	Ice	none		MS/MSD PAHs	APP	200mL/m
↓	2	P	250mL	↓	↓		PAHs	APP	↓
	1	P	15mL	Ice	↓		PAHs	APP	
	1	AG	250mL	Ice	↓		8081B	APP	↓
↓	3	CG	40mL	HCL	↓		8260D	RFPP	

REMARKS:
Temp well was installed at 10:15 Purged till 12:25 before starting sampling log. Formation of silty soils made for low production of this well.

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

SAMPLING EQUIPMENT CODES: **APP** = After 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: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

0340.2K0012.0000

SITENAME	Pelican Coast	SITELOCATION:	
WELL NO:	GW-6	SAMPLE ID: GW-6	DATE: 3-16-21

PURGING DATA

WELL DIAMETER (inches): 1"	TUBING DIAMETER (inches): 1/8	WELL SCREEN INTERVAL DEPTH: 5 feet to 9 feet	STATIC DEPTH TO WATER (feet): 5.5	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)
= (9 feet − 5.5 feet) X .08 gallons/foot = .28 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): 7	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7	PURGING INITIATED AT: 1403	PURGING ENDED AT: 1423	TOTAL VOLUME PURGED (gallons): 1.25

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1417	.5	.5	.125	5.5	6.22	27.09	1.159	90%.71	15.9	cl	nd
1419	.25	.75	↓	↓	6.22	27.10	1.157	9.0%.71	10.3	↓	↓
1421	.25	1.0	↓	↓	6.22	27.09	1.159	8.3%.65	8.25	↓	↓
1423	.25	1.25	↓	↓	6.22	27.08	1.157	7.3%.58	8.46	↓	↓

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: Brandon Selph Universal Engineering	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1423	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 7	TUBING MATERIAL CODE: HDP	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
GW-6	2	P	250mL	Ice	none		PHFS	APP	200mL/m
↓	1	P	15mL	Ice	↓		↓	↓	
↓	1	AG	250mL	Ice	↓		8081B	↓	
↓	3	CG	40mL	HCL	↓		8260B	RFPP	

REMARKS:
Temp well was installed at 10:15 Purged till 12:25 before starting sampling log. Formation of silty soils made for low production of this well.

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

SAMPLING EQUIPMENT CODES: **APP** = After 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: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

0340.21000 12.0000

SITENAME	Pelican Coast	SITELOCATION:	
WELL NO:	GW-7	SAMPLE ID: GW-7	DATE: 5-16-21

PURGING DATA

WELL DIAMETER (inches): 1"	TUBING DIAMETER (inches): 1/8	WELL SCREEN INTERVAL DEPTH: 5 feet to 9 feet	STATIC DEPTH TO WATER (feet): 5.5	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)
= (9 feet – 5.5 feet) X .08 gallons/foot = .28 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): 7	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7	PURGING INITIATED AT: 1537	PURGING ENDED AT: 1549	TOTAL VOLUME PURGED (gallons): 1.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1541	.5	.5	.125	5.5	6.39	25.93	.837	10.2%.79	50.4	CL	no
1543	.25	.75	↓	↓	6.37	25.84	.838	6.9%.55	21.7	↓	↓
1545	.25	1.0	↓	↓	6.37	25.77	.839	6.3%.51	15.3	↓	↓
1547	.25	1.25	↓	↓	6.36	25.76	.839	5.0%.40	12.3	↓	↓
1549	.25	1.5	↓	↓	6.36	25.68	.838	4.6%.37	10.1	↓	↓

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: Brandon Selph Universal Engineering	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1549	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 7	TUBING MATERIAL CODE: HDP	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
GW-7	2	P	250mL	Ice	none		PHFS	APP	200mL/m
↓	1	P	125mL	↓			↓	↓	
	1	AG	250mL	↓			8081B	↓	
↓	3	CG	40mL	HCL	↓		8260D	RFPP	

REMARKS:
Temp well was installed at 10:15 Purged till 12:25 before starting sampling log. Formation of silty soils made for low production of this well.

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

SAMPLING EQUIPMENT CODES: **APP** = After 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: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24

GROUNDWATER SAMPLING LOG

0340.2100012.0000

SITENAME	Pelican Coast	SITELOCATION:	
WELL NO:	GW-8	SAMPLE ID: GW-8	DATE: 3-16-21

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
1"	1/8	5 feet to 9 feet	5.5	PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (9 feet – 5.5 feet) X .08 gallons/foot = .28 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):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
7	7	1502	1516	1.75

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1506	.5	.5	.125	5.5	6.88	25.18	.649	1.8% .14	34.9	CL	NO
1508	.25	.75	↓	↓	6.88	25.28	.649	1.7% .14	29.3	↓	↓
1510	.25	1.0	↓	↓	6.87	25.32	.648	2.0% .17	23.3	↓	↓
1512	.25	1.25	↓	↓	6.86	25.35	.648	2.2% .18	20.0	↓	↓
1514	.25	1.50	↓	↓	6.86	25.31	.647	2.1% .17	18.5	↓	↓
1516	.25	1.75	↓	↓	6.86	25.35	.647	2.3% .19	17.8	↓	↓

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:	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Brandon Selph Universal Engineering		1516	

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: HDP	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
7			

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y N (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
GW-8	2	P	250mL	Ice	none		PFAS	APP	200ml/min
↓	1	P	15mL	↓	↓		↓	↓	
↓	1	AG	250mL	↓	↓		8081B	↓	
↓	3	CG	40mL	HCL	↓		82600	RFPP	

REMARKS:
Temp well was installed at 10:15 Purged till 12:25 before starting sampling log. Formation of silty soils made for low production of this well.

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

SAMPLING EQUIPMENT CODES: **APP** = After 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: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

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

Form FD9000-8 **CALIBRATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)** *11-10-05*

Project/Site: __ Date: 3-16-21 Meter # 13A100061

Temperature (Quarterly) *For Date of Last Temperature Verification see* _____ *in log book* _____

Dissolved Oxygen	**DEP SOP FT 1500**	Initials	Date	Time	Probe Charge	Probe Gain	mg/L	Temp °C	% DO	Saturation mg/L (from chart)	Pass or Fail
											Acceptance Criteria:+/-0.3mg/l
CAL (ICV) CCV		BS	3/16/21	8:30			10.14	19.34	110%	9.22	(P) F
CAL (ICV) CCV		BS	↓	5:21			7.55	20.4	108%	7.363	(P) F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F

Specific Conductance	**DEP SOP FT 1200**	Initials	Date	Time	Standard µmhos/cm	Exp. Date	Lot #	Bottle #	Cell Constant	Reading µmhos/cm	Pass or Fail
										Acceptance Criteria: +/- 5%	
(CAL) ICV CCV		BS	3/16/21	8:35	1.413	6-21	OGF746			1.581	(P) F
CAL (ICV) CCV		BS	↓	5:30	1.413					1.421	(P) F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F
CAL ICV CCV											P F

pH	**DEP SOP FT 1100**	Initials	Date	Time	Standard SU	Exp. Date	Lot #	Bottle #	Slope	Reading SU	Pass or Fail
										Acceptance Criteria: +/- 0.2 SU	
(CAL) ICV CCV		BS	3/16/21	8:40	7.0	7-21	9GH321			7.01	(P) F
(CAL) ICV CCV		↓	↓	↓	4.0	7-21	9GG937			4.01	(P) F
(CAL) ICV CCV		↓	↓	↓	10.0	7-21	9GG764			10.00	(P) F
CAL (ICV) CCV				5:35	7.0					7.02	(P) F
CAL (ICV) CCV				↓	4.0					4.00	(P) F
CAL (ICV) CCV				↓	10.0					9.81	(P) F
CAL ICV CCV					7.0						P F
CAL ICV CCV					4.0						P F
CAL ICV CCV					10.0						P F

Maintenance: Weekly pH Slope: _____ Specific Conductance Probe Cleaned? Yes No Dissolved Oxygen Membrane Changed: Yes No

Notes:

Perform only in Calibrate Mode: **CAL** - Calibrate -
Perform only in Run Mode: **ICV** - Initial Calibration Verification
Perform only in Run Mode: **CCV** - Continuing Calibration Verification

Form FD 9000-8: FIELD INSTRUMENT CALIBRATION RECORDS

INSTRUMENT (MAKE/MODEL#) HACH 2100Q **INSTRUMENT S/N#** 17030C056364

PARAMETER: *[check only one]*

☐ TEMPERATURE ☐ CONDUCTIVITY ☐ SALINITY ☐ pH ☐ ORP
☒ TURBIDITY ☐ RESIDUAL Cl ☐ DO ☐ OTHER _____

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A 10
Standard B 20
Standard C 100
Standard D 800

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
3/16/21	9:30	A	10	10.6			INIT	BS
		B	20	22.0			INIT	
		C	100	103			INIT	
		D	800	741			INIT	
	5:30	A	10	10.2			CONT	
		B	20	20.1			CONT	
		C	100	100			CONT	
		D	800	798			CONT	