

# Login Checklist

RQ- 2022-09-19-21

Login Station ID: #1

Shipping Method: FedEx | UPS | HD | Greyhound

Date/Time of Receipt: 9/ 20 /22 @ 9:10

| *Cooler Temperature | Samples Frozen? | * All Samples in Cooler Preserved with |                  | Number of Sample Containers in Cooler | Evidence Tape |          |     |          | Waybill Tracking # |
|---------------------|-----------------|----------------------------------------|------------------|---------------------------------------|---------------|----------|-----|----------|--------------------|
|                     |                 | YES                                    | HNO <sub>3</sub> |                                       | Formalin      | Present? |     | *Intact? |                    |
|                     | Yes             |                                        |                  |                                       |               | No       | Yes | No       |                    |
| -0.2                |                 |                                        |                  | 8                                     |               | ✓        |     |          | 5859 4727 9737     |
| 0.3                 |                 |                                        |                  | 10                                    |               | ✓        |     |          | 5859 4727 9726     |
|                     |                 |                                        |                  |                                       |               |          |     |          |                    |
|                     |                 |                                        |                  |                                       |               |          |     |          |                    |
|                     |                 |                                        |                  |                                       |               |          |     |          |                    |
|                     |                 |                                        |                  |                                       |               |          |     |          |                    |

## COOLER CHECK

\*All samples received on ice unless otherwise noted. HNO<sub>3</sub> and Formalin preserved samples do NOT have a temperature requirement.

- If the temperature of a cooler exceeds 6.0 oC (above 10.0 oC for W-1-4-DIOX and microbiology) or received without ice, identify affected samples in an NCR. NCR# \_\_\_\_\_
- DOH coolers can exceed 2.0 °C above the standard temperature (6.0 or 10.0 °C for W-1-4-DIOX) without login confirmation from customer for samples requiring ice preservation; identify affected samples in an NCR. NCR# \_\_\_\_\_
- If cooler or samples are received with a damaged Evidence Seal; identify the affected samples in an NCR. NCR# \_\_\_\_\_
- If coolers or samples are received late; identify the affected samples in an NCR. NCR# \_\_\_\_\_

Chain of Custody/ Field Sheet(s) Included?

Yes ☒ No \_\_\_\_\_

Micro-Biology Overflow Chain of Custody/ Field Sheet(s) Included?

Yes \_\_\_\_\_ No ☒

## CONTAINER CHECK

Evidence Tape on Bottles? Yes \_\_\_\_\_ No \_\_\_\_\_ NA ☒ Evidence Tape intact? Yes \_\_\_\_\_ No \_\_\_\_\_

If Criminal, photographs taken? Yes \_\_\_\_\_ No \_\_\_\_\_ Containers intact? Yes ☒ No \_\_\_\_\_

Caps on tight? Yes ☒ No \_\_\_\_\_

Sufficient Sample Volume: Yes ☒ No \_\_\_\_\_

If NO is checked above, generate an NCR listing affected sample IDs in its appropriate category. NCR# \_\_\_\_\_

**CHLORINE CHECK REQUIRED?** (Blue dot on container)

Yes \_\_\_\_\_ No ☒ Init: KK

Chlorine detected? (One container checked per Field ID)

Yes \_\_\_\_\_ No \_\_\_\_\_ Init: \_\_\_\_\_

If chlorine is detected, generate an NCR listing affected sample IDs . NCR# \_\_\_\_\_

## PRESERVATION CHECK (EXCLUDING SAMPLES SENT TO OVERFLOW LABS, "OV-")

\*\*Acid Preserved Samples: pH < 2.0? Yes \_\_\_\_\_ No \_\_\_\_\_ NA ☒ Init: KK

\*\*W-1-4-DIOX (Green dot on container) preserved to pH < 4.0? Yes \_\_\_\_\_ No \_\_\_\_\_ NA ☒ Init: KK

If samples were not preserved correctly, generate an NCR listing affected sample IDs . NCR# \_\_\_\_\_

Coolers Unpacked/Checked by: KK

Date: 9/ 20 /22

Event contains NCRs (Y/N)? N

EventID: Lakes: Effie, Isabell, Leonore

CEN-DIST-2022-09-20-02 (SMP)

Date Received: 20-SEP-2022 09:10

# 

Login Preservation Equipment

Lot # & Exp: Date

Additional Comments:

|                         |                                 |
|-------------------------|---------------------------------|
| Infrared ThermometerID: | IR TEMP GUN #1   Exp:10/19/2022 |
| pH Test Strips 0 – 6    | Lot# 223819AV   Exp:8/30/23     |
| pH Paper 0 – 3          |                                 |
| pH Paper 0 – 13         | Lot# 207621   Exp:3/15/24       |
| Chlorine Test Strips    | Lot# 0070   Exp:2/23            |

### 

S-VOC-MS samples in Encores must be frozen within 48 hours of collection.

Were Encore samples received? Yes\_\_\_\_\_ Init:\_\_\_\_\_

Date and time placed in freezer \_\_\_\_\_

Were all samples placed in freezer within 48 hours of collection? Yes\_\_\_\_\_ No\_\_\_\_\_

If no, were samples shipped on dry ice? Yes\_\_\_\_\_ No\_\_\_\_\_

If S-VOC-MS samples were not preserved correctly, generate an NCR listing affected sample IDs . NCR# \_\_\_\_\_

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
CHAIN OF CUSTODY FORM

**Date:** 9/19/2022      **Collected By:** Terry Riordan, Victoria Schwartz  
**Customer:** CEN-DIST      **Sampling Agency:** FDEP  
**RQ:** RQ-2022-09-19-21      **Project ID:** SMP

PLEASE RETURN THE ORIGINAL OF THIS FORM WITH SAMPLE SUBMITTAL  
FORMS AND THE COOLER PACKING WORKSHEET TO THE LAB

**Number of Coolers Shipped:** 2

**Delivery Method:** FedEx

**FIELD ID (Labels) submitted under this RQ for this collection date.**

| Site Location         | Field ID/WIN ID                                                                                 |
|-----------------------|-------------------------------------------------------------------------------------------------|
| Lake Effie @ Center   | <br>G3CE0036  |
| Lake Leonore @ Center | <br>G4CE0184 |

**RELINQUISHED BY(SIGNATURE):**

*Vs [Signature]*

**DATE/TIME:** 9/19/2022

1600 EST

**THIS SECTION TO BE COMPLETED BY LABORATORY**

**Rec'd/Inspected By:** *KL*

**Rec'd/Inspected**

**Date:** 9-20-22 / 0910



RQ-2022-09-19-21

Collected By: Terry Riordan, Victoria Schwartz

Customer: FDEP

Field Report Prepared by: Terry Riordan, Victoria Schwartz

Project ID: SMP

Sampling Agency: FDEP

WIN ID/Field ID:



WIN ID/Field ID: G3CE0036

Comments: Please log in PKD-QN-BV &amp; DTY-QN-C under a separate event with priority 12, Bottle Group - B. |

Location:

Location: Lake Effie @ Center

Matrix: Fresh

(Check One)

☒ Grab☐ Composite

| Date and Time {EST}                | DO (mg/L) | DO (%SAT)                                                                    | Temp. ©        | pH                                       | Sample Depth (m)              | Secchi Depth | Total Depth (m) | Sp COND (µmhos /cm) | Salinity (PPT <sub>h</sub> ) |                       |              |   |   |
|------------------------------------|-----------|------------------------------------------------------------------------------|----------------|------------------------------------------|-------------------------------|--------------|-----------------|---------------------|------------------------------|-----------------------|--------------|---|---|
| 9/19/2022 1332                     | 8.53      | 111.8                                                                        | 29.4           | 7.47                                     | 0.3                           | 0.5          | 1.8             | 244.9               | 0.11                         |                       |              |   |   |
| Parameter Suite                    |           | Parameter Methods                                                            |                |                                          |                               | Preservation |                 | pH Check            |                              | # Bottles sent to Lab | Bottle Group |   |   |
| Preserved Nutrients (P-500ML)      | X         | W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP                                  |                |                                          |                               | X            | Ice             | X                   | H2SO4*                       | X                     | <2           | 1 | A |
|                                    |           | Lot #                                                                        |                | 132683                                   |                               | Exp:         |                 | 12/18/22            |                              |                       |              |   |   |
| Metals (P-500ML)                   |           | W-ICPMS                                                                      |                | W-ICP                                    |                               | W-HARD       |                 | Ice                 | HNO3*                        |                       | <2           |   |   |
|                                    |           | Lot #                                                                        |                |                                          |                               | Exp:         |                 |                     |                              |                       |              |   |   |
| Filtered Nutrients (P125ML)        | X         | W-PO4-F                                                                      |                | X                                        | Field Filtered 0.45 µm Filter |              |                 | X                   | Ice                          |                       |              | 1 | A |
|                                    |           | Filter Lot #                                                                 | 17413308       | Syringe Lot #                            | 2090604                       |              |                 |                     |                              |                       |              |   |   |
| BOD (BP-1L)                        |           | OV-BODUNIN                                                                   |                |                                          |                               |              |                 | Ice                 |                              |                       |              |   |   |
| Chlorophyll (BP-1L)                | X         | CHLSUITE-W                                                                   |                |                                          |                               |              | X               | Ice                 |                              |                       |              | 1 | A |
| Physical/Aggregate (Fresh) (P-1L)  | X         | Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W- TDS |                |                                          |                               |              | X               | Ice                 |                              |                       |              | 1 | A |
| Physical/Aggregate (Marine) (P-1L) |           | Alkalinity / W-F / W-TSS / TURBIDITY                                         |                |                                          |                               |              |                 | Ice                 |                              |                       |              |   |   |
| Macroinvertebrates (PJ-2L)         |           | MI-FW-QLDC                                                                   | Formalin Lot # |                                          |                               |              | Formalin        |                     |                              |                       |              |   |   |
| Periphyton (PT-50ML)               |           | ALGAE-ID                                                                     |                |                                          |                               |              |                 | Ice                 |                              |                       |              |   |   |
| Microbiology (Contract Lab Bottle) |           | E Coli                                                                       |                | F Coli                                   |                               | Enterococci  |                 |                     | Ice                          |                       |              |   |   |
|                                    |           | Contract Lab                                                                 |                |                                          |                               |              |                 |                     |                              |                       |              |   |   |
| Molecular (QPCR-P-500ML)           |           | PCR-HF183                                                                    |                | PCR-BacR                                 |                               | PCR-DG3      |                 |                     | Ice                          |                       |              |   |   |
|                                    |           | PCR-GULL2                                                                    |                | PCR-GFD                                  |                               |              |                 |                     |                              |                       |              |   |   |
| Tracers (BG-500ML)                 |           | W-E8321-DI                                                                   |                | W-E8321-MS                               |                               |              |                 | Ice                 |                              |                       |              |   |   |
| Pesticides (BG-500ML) (BG-1L)      |           | W-E8321-DI                                                                   |                | W-E8321-MS                               |                               | W-PSNP-TQ    |                 | Ice                 | MCAA Exp.                    | MCAA Lot#             |              |   |   |
|                                    |           | W-PCL-TQ-R                                                                   |                | W-CAR8-AA (5 ml of MCAA Buffer Solution) |                               | W-CT-CL-R    |                 |                     |                              |                       |              |   |   |
|                                    |           | W-TR-SQ-R                                                                    |                | W-PC8-TQ-R                               |                               |              |                 |                     |                              |                       |              |   |   |
| Phytoplankton                      | X         | DTY-QN-C                                                                     |                | X                                        | PKD-QN-BV                     |              |                 | X                   | Ice                          |                       |              | 1 | B |



RQ-2022-09-19-21

Customer: FDEP

Project ID: SMP

Collected By: Terry Riordan, Victoria Schwartz

Field Report Prepared by: Terry Riordan, Victoria Schwartz

Sampling Agency: FDEP

WIN ID/Field ID:



WIN ID/Field ID: G4CE0184

Comments:

Location:

Location: Lake Leonore @ Center

Matrix: Fresh

(Check One)

☒ Grab☐ Composite

| Date and Time {EST} | DO (mg/L) | DO (%SAT) | Temp. °C | pH   | Sample Depth (m) | Secchi Depth | Total Depth (m) | Sp COND (µmhos /cm) | Salinity (PPT) |
|---------------------|-----------|-----------|----------|------|------------------|--------------|-----------------|---------------------|----------------|
| 9/19/2022<br>1153   | 9.8       | 131       | 30.5     | 8.53 | 0.3              | 0.4          | 3.1             | 282                 | 0.13           |

  

| Parameter Suite                    | Parameter Methods |                                                                              |                |                                          | Preservation |             | pH Check | # Bottles sent to Lab | Bottle Group |
|------------------------------------|-------------------|------------------------------------------------------------------------------|----------------|------------------------------------------|--------------|-------------|----------|-----------------------|--------------|
| Preserved Nutrients (P-500ML)      | X                 | W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP                                  |                |                                          | X            | Ice         | X        | H2SO4*                |              |
|                                    |                   | Lot #                                                                        |                | 132683                                   | Exp:         | 12/18/22    |          | X                     | <2           |
| Metals (P-500ML)                   |                   | W-ICPMS                                                                      |                | W-ICP                                    | W-HARD       | Ice         |          | HNO3*                 |              |
|                                    |                   | Lot #                                                                        |                |                                          | Exp:         |             |          |                       | <2           |
| Filtered Nutrients (P125ML)        |                   | W-PO4-F                                                                      |                | Field Filtered 0.45 µm Filter            |              | Ice         |          |                       |              |
|                                    |                   | Filter Lot #                                                                 |                | Syringe Lot #                            |              |             |          |                       |              |
| BOD (BP-1L)                        |                   | OV-BODUNIN                                                                   |                |                                          |              | Ice         |          |                       |              |
| Chlorophyll (BP-1L)                | X                 | CHLSUITE-W                                                                   |                |                                          |              | X           | Ice      |                       | 1            |
| Physical/Aggregate (Fresh) (P-1L)  | X                 | Alkalinity / W-F / W-TSS / TURBIDITY / W-CL-IC / W-COLOR / W-SO4-IC / W- TDS |                |                                          |              | X           | Ice      |                       | 1            |
| Physical/Aggregate (Marine) (P-1L) |                   | Alkalinity / W-F / W-TSS / TURBIDITY                                         |                |                                          |              |             | Ice      |                       |              |
| Macroinvertebrates (PJ-2L)         |                   | MI-FW-QLDC                                                                   | Formalin Lot # |                                          |              | Formalin    |          |                       |              |
| Periphyton (PT-50ML)               |                   | ALGAE-ID                                                                     |                |                                          |              |             | Ice      |                       |              |
| Microbiology (Contract Lab Bottle) |                   | E Coli                                                                       |                | F Coli                                   |              | Enterococci |          | Ice                   |              |
|                                    |                   | Contract Lab                                                                 |                |                                          |              |             |          |                       |              |
| Molecular (QPCR-P-500ML)           |                   | PCR-HF183                                                                    |                | PCR-BacR                                 |              | PCR-DG3     |          | Ice                   |              |
|                                    |                   | PCR-GULL2                                                                    |                | PCR-GFD                                  |              |             |          |                       |              |
| Tracers (BG-500ML)                 |                   | W-E8321-DI                                                                   |                | W-E8321-MS                               |              |             | Ice      |                       |              |
| Pesticides (BG-500ML) (BG-1L)      | X                 | W-E8321-DI                                                                   | X              | W-E8321-MS                               | X            | W-PSNP-TQ   |          | MCAA Exp.             | MCAA Lot#    |
|                                    | X                 | W-PCL-TQ-R                                                                   | X              | W-CARB-AA (5 ml of MCAA Buffer Solution) | X            | W-CT-CL-R   | X        | Ice                   |              |
|                                    | X                 | W-TR-SQ-R                                                                    | X              | W-PCB-TQ-R                               |              |             |          | 2/4/23                | 128343       |
| Phytoplankton                      |                   | DTY-QN-C                                                                     |                | PKD-QN-BV                                |              |             | Ice      |                       |              |

Date of Request: 19-AUG-2022  
 Created By: BEARDEN\_M On: 19-AUG-2022  
 Modified By: AYRES\_J On: 31-AUG-2022  
 Customer: CEN-DIST  
 Project: SMP  
 Division: Division of Environmental Assessment and Restoration  
 District: Central District  
 Event Description: Lakes: Effie, Isabell, Leonore

**Send Coolers To:**

Phone: 407-897-4123  
 FL Dept. of Environmental Protection  
 3319 Maguire Blvd., Suite 232  
 Orlando, FL 32803-3767  
 Attn: Matthew Bearden  
 Cooler Ship EMail: matthew.bearden@floridadep.gov

Priority: 3  
 Event Status: S  
 Criminal Investigation: NO  
 Chemistry Request Reviewed By: AYRES\_J On: 31-AUG-2022  
 Biology Request Reviewed By: JASROTIA\_P On: 30-AUG-2022  
 Sampling Kit Required: YES Ship on: 16-SEP-2022  
 Sampling Kit Shipped: YES On: 14-SEP-2022  
 Sampling Kit Packed By: SHAIK\_A  
 Preservatives Needed: YES  
 Date to Receive Samples: 20-SEP-2022  
 Logged In By:

**Send Final Report To:**

FL Dept. of Environmental Protection  
 3319 Maguire Blvd., Suite 232  
 Orlando, FL 32803-3767  
 Attn: Matthew Bearden  
 Report Notification EMail:  
 matthew.bearden@floridadep.gov; victoria.schwartz@floridadep.gov

Comments: #####

Buffer Solution for W-CARB-AA Bottle Needed

#####  
 W-TR-SQ-R (sunscreen)

Wash your hands thoroughly and wear gloves. Refrain from using sunscreens on the day of sample collection.

#####

Please log in PKD-QN-BV & DTY-QN-C under a separate event with priority 12, Bottle Group - B

Effie: A and B  
 Isabell: C  
 Leonore: D

**Bottle Group A (Water) With 1 Samples:**

|                       |                      |                                                                                                              |
|-----------------------|----------------------|--------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-1L     | Number of Bottles: 1 | Preserved With: ICE                                                                                          |
| ALKALINITY            | Template: DEFAULT    | (SM 2320 B-2011) Alkalinity in aqueous matrices as mg CaCO <sub>3</sub> /L                                   |
| TURBIDITY             | Template: DEFAULT    | (EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices                                                           |
| W-CL-IC               | Template: DEFAULT    | (EPA 300.0 Rev. 2.1) Chloride in aqueous matrices                                                            |
| W-COLOR               | Template: DEFAULT    | (DEP SOP: NU-094-1) True Color measured at 450 nm (not valid for NPDES monitoring)                           |
| Color (true)          |                      |                                                                                                              |
| W-F                   | Template: DEFAULT    | (SM 4500-F- C-2011) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)      |
| W-SO <sub>4</sub> -IC | Template: DEFAULT    | (EPA 300.0 Rev. 2.1) Sulfate in aqueous matrices                                                             |
| W-TDS                 | Template: DEFAULT    | (SM 2540 C-2011) Total Dissolved Solids in aqueous matrices                                                  |
| W-TSS                 | Template: DEFAULT    | (SM 2540 D-2011) Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample              |
| Bottle Type: BP-1L    | Number of Bottles: 1 | Preserved With: ICE                                                                                          |
| CHLSUITE-W            | Template: DEFAULT    | (SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry |
| Bottle Type: P-500ML  | Number of Bottles: 1 | Preserved With: ICE And H <sub>2</sub> SO <sub>4</sub>                                                       |
| W-NH <sub>3</sub>     | Template: DEFAULT    | (EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L                                                   |

**Bottle Group A (Water) With 1 Samples:**

|                      |                      |                                                                                          |
|----------------------|----------------------|------------------------------------------------------------------------------------------|
| Bottle Type: P-500ML | Number of Bottles: 1 | Preserved With: ICE And H2SO4                                                            |
| W-NO2NO3             | Template: DEFAULT    | (EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L                       |
| W-S-A-TP             | Template: DEFAULT    | (EPA 365.1 Rev. 2.0) Total Phosphorus in aqueous matrices as mg P/L                      |
| W-TKN                | Template: DEFAULT    | (EPA 351.2 Rev. 2.0) Total Kjeldahl Nitrogen in aqueous matrices                         |
| W-TOC                | Template: DEFAULT    | (SM 5310 B-2011) Nonpurgeable Organic Carbon in aqueous matrices                         |
| Bottle Type: P-125ML | Number of Bottles: 1 | Preserved With: FILTER-ICE                                                               |
| W-PO4-F              | Template: DEFAULT    | (EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L |

**Bottle Group B (Water) With 1 Samples:**

|                    |                      |                                                                                               |
|--------------------|----------------------|-----------------------------------------------------------------------------------------------|
| Bottle Type: BP-1L | Number of Bottles: 1 | Preserved With: Lugols                                                                        |
| DTY-QN-C           | Template: DEFAULT    | (SOP-AB05_1) No. of diatom taxa of quantitative phytoplankton sample.                         |
| PKD-QN-BV          | Template: DEFAULT    | (SOP-AB05) No. of wet taxa of quantitative phytoplankton sample w/speciation and cell counts. |

**Bottle Group C (Water) With 1 Samples:**

|                      |                      |                                                                                                                                                |
|----------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-1L    | Number of Bottles: 1 | Preserved With: ICE                                                                                                                            |
| ALKALINITY           | Template: DEFAULT    | (SM 2320 B-2011) Alkalinity in aqueous matrices as mg CaCO3/L                                                                                  |
| TURBIDITY            | Template: DEFAULT    | (EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices                                                                                             |
| W-CL-IC              | Template: DEFAULT    | (EPA 300.0 Rev. 2.1) Chloride in aqueous matrices                                                                                              |
| W-COLOR              | Template: DEFAULT    | (DEP SOP: NU-094-1) True Color measured at 450 nm (not valid for NPDES monitoring)                                                             |
| Color (true)         |                      |                                                                                                                                                |
| W-F                  | Template: DEFAULT    | (SM 4500-F- C-2011) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)                                        |
| W-SO4-IC             | Template: DEFAULT    | (EPA 300.0 Rev. 2.1) Sulfate in aqueous matrices                                                                                               |
| W-TDS                | Template: DEFAULT    | (SM 2540 C-2011) Total Dissolved Solids in aqueous matrices                                                                                    |
| W-TSS                | Template: DEFAULT    | (SM 2540 D-2011) Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample                                                |
| Bottle Type: BP-1L   | Number of Bottles: 1 | Preserved With: ICE                                                                                                                            |
| CHLSUITE-W           | Template: DEFAULT    | (SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry                                   |
| Bottle Type: P-500ML | Number of Bottles: 1 | Preserved With: HNO3                                                                                                                           |
| W-HARD               | Template: DEFAULT    | (SM 2340 B-2011) Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3                                                          |
| Hardness             |                      |                                                                                                                                                |
| W-ICP                | Template: SMP-FRESH  | (EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects |
| Calcium              |                      |                                                                                                                                                |
| Iron                 |                      |                                                                                                                                                |
| Magnesium            |                      |                                                                                                                                                |
| Potassium            |                      |                                                                                                                                                |
| Sodium               |                      |                                                                                                                                                |
| Strontium            |                      |                                                                                                                                                |
| Tin                  |                      |                                                                                                                                                |
| Titanium             |                      |                                                                                                                                                |
| Vanadium             |                      |                                                                                                                                                |
| Zinc                 |                      |                                                                                                                                                |
| W-ICPMS              | Template: DEFAULT    | (EPA 200.8 Rev. 5.4) Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects                    |
| Aluminum             |                      |                                                                                                                                                |
| Antimony             |                      |                                                                                                                                                |
| Arsenic              |                      |                                                                                                                                                |
| Barium               |                      |                                                                                                                                                |
| Beryllium            |                      |                                                                                                                                                |
| Boron                |                      |                                                                                                                                                |
| Cadmium              |                      |                                                                                                                                                |
| Chromium             |                      |                                                                                                                                                |
| Cobalt               |                      |                                                                                                                                                |
| Copper               |                      |                                                                                                                                                |
| Lead                 |                      |                                                                                                                                                |
| Manganese            |                      |                                                                                                                                                |
| Molybdenum           |                      |                                                                                                                                                |
| Nickel               |                      |                                                                                                                                                |
| Selenium             |                      |                                                                                                                                                |
| Silver               |                      |                                                                                                                                                |
| Thallium             |                      |                                                                                                                                                |

**Bottle Group C (Water) With 1 Samples:**

|                      |                   |                      |                                                 |
|----------------------|-------------------|----------------------|-------------------------------------------------|
| Bottle Type: P-500ML |                   | Number of Bottles: 1 | Preserved With: ICE And H2SO4                   |
| W-NH3                | Template: DEFAULT | (EPA 350.1 Rev. 2.0) | Ammonia in aqueous matrices as mg N/L           |
| W-NO2NO3             | Template: DEFAULT | (EPA 353.2 Rev. 2.0) | Nitrite/Nitrate in aqueous matrices as mg N/L   |
| W-S-A-TP             | Template: DEFAULT | (EPA 365.1 Rev. 2.0) | Total Phosphorus in aqueous matrices as mg P/L  |
| W-TKN                | Template: DEFAULT | (EPA 351.2 Rev. 2.0) | Total Kjeldahl Nitrogen in aqueous matrices     |
| W-TOC                | Template: DEFAULT | (SM 5310 B-2011)     | Nonpurgeable Organic Carbon in aqueous matrices |

**Bottle Group D (Water) With 1 Samples:**

|                               |                   |                      |                                                                                                          |
|-------------------------------|-------------------|----------------------|----------------------------------------------------------------------------------------------------------|
| Bottle Type: P-1L             |                   | Number of Bottles: 1 | Preserved With: ICE                                                                                      |
| ALKALINITY                    | Template: DEFAULT | (SM 2320 B-2011)     | Alkalinity in aqueous matrices as mg CaCO3/L                                                             |
| TURBIDITY                     | Template: DEFAULT | (EPA 180.1 Rev. 2.0) | Turbidity in aqueous matrices                                                                            |
| W-CL-IC                       | Template: DEFAULT | (EPA 300.0 Rev. 2.1) | Chloride in aqueous matrices                                                                             |
| W-COLOR                       | Template: DEFAULT | (DEP SOP: NU-094-1)  | True Color measured at 450 nm (not valid for NPDES monitoring)                                           |
| Color (true)                  |                   |                      |                                                                                                          |
| W-F                           | Template: DEFAULT | (SM 4500-F- C-2011)  | Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)                      |
| W-SO4-IC                      | Template: DEFAULT | (EPA 300.0 Rev. 2.1) | Sulfate in aqueous matrices                                                                              |
| W-TDS                         | Template: DEFAULT | (SM 2540 C-2011)     | Total Dissolved Solids in aqueous matrices                                                               |
| W-TSS                         | Template: DEFAULT | (SM 2540 D-2011)     | Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample                           |
| Bottle Type: BP-1L            |                   | Number of Bottles: 1 | Preserved With: ICE                                                                                      |
| CHLSUITE-W                    | Template: DEFAULT | (SM 10200 H (mod.))  | Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry                 |
| Bottle Type: BG-500ML         |                   | Number of Bottles: 1 | Preserved With: CH2CICOOH and Ice                                                                        |
| W-CARB-AA                     | Template: DEFAULT | (EPA 8321B)          | Carbamates in water matrices by HPLC/MS/MS                                                               |
| Bottle Type: BG-500ML FILL TO |                   | Number of Bottles: 4 | Preserved With: ICE                                                                                      |
| W-CT-Cl-R                     | Template: DEFAULT | (EPA 8276)           | Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization                   |
| W-PCB-TQ-R                    | Template: DEFAULT | (EPA 8270E)          | PCBs in water matrices by GC/MS/MS                                                                       |
| W-PCL-TQ-R                    | Template: DEFAULT | (EPA 8270E)          | Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS                         |
| Bottle Type: BG-500ML         |                   | Number of Bottles: 1 | Preserved With: ICE                                                                                      |
| W-E8321-DI                    | Template: DEFAULT | (EPA 8321B)          | Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS                              |
| W-E8321-MS                    | Template: SMP     | (EPA 8321B)          | Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS                              |
| Bottle Type: P-250ML          |                   | Number of Bottles: 1 | Preserved With: FILTER-ICE                                                                               |
| W-F-F                         | Template: DEFAULT | (SM 4500-F- C-2011)  | Fluoride, dissolved, in filtered aqueous matrices, without distillation (not valid for NPDES monitoring) |
| Bottle Type: P-500ML          |                   | Number of Bottles: 1 | Preserved With: ICE And H2SO4                                                                            |
| W-NH3                         | Template: DEFAULT | (EPA 350.1 Rev. 2.0) | Ammonia in aqueous matrices as mg N/L                                                                    |
| W-NO2NO3                      | Template: DEFAULT | (EPA 353.2 Rev. 2.0) | Nitrite/Nitrate in aqueous matrices as mg N/L                                                            |
| W-S-A-TP                      | Template: DEFAULT | (EPA 365.1 Rev. 2.0) | Total Phosphorus in aqueous matrices as mg P/L                                                           |
| W-TKN                         | Template: DEFAULT | (EPA 351.2 Rev. 2.0) | Total Kjeldahl Nitrogen in aqueous matrices                                                              |
| W-TOC                         | Template: DEFAULT | (SM 5310 B-2011)     | Nonpurgeable Organic Carbon in aqueous matrices                                                          |
| Bottle Type: BG-1L            |                   | Number of Bottles: 4 | Preserved With: ICE                                                                                      |
| W-PSNP-TQ                     | Template: DEFAULT | (EPA 8270E)          | Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS                                   |
| W-TR-SQ-R                     | Template: DEFAULT | (EPA 8270E)          | Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM                               |

\* - The laboratory is not NELAP certified for this analyte/method, or certification is not applicable.

**Cooler Packing Worksheet for Request: RQ-2022-09-19-21**

**Lakes: Effie, Isabell, Leonore**

**Ship Cooler On: 9/16/2022**

**Customer/Project: CEN-DIST/SMP**

Assigned To: SHAIK\_A

Requester: Matthew Bearden

Priority: 3

407-897-4123

FL Dept. of Environmental Protection

3319 Maguire Blvd., Suite 232

Orlando, FL 32803-3767

Attn: Matthew Bearden

**Please return  
packing list with  
sample submittal  
forms.**

**Comments:**

#####

Buffer Solution for W-CARB-AA Bottle Needed

#####

W-TR-SQ-R (sunscreen)

Wash your hands thoroughly and wear gloves. Refrain from using sunscreens on the day of sample collection.

#####

Please log in PKD-QN-BV & DTY-QN-C under a separate event with priority 12, Bottle Group - B

Effie: A and B

Isabell: C

Leonore: D

**Requested Analyses:**

**Bottle Group: A**

**# of Sites: 1**

**Container ID: P-1L**

**Qty: 1    Preservation: ICE**

**Lot #** 0084033

**Description: Plastic Bottle 1L**

**Analysis**

ALKALINITY

TURBIDITY

W-CL-IC

W-COLOR

W-F

W-SO4-IC

W-TDS

W-TSS

**Description**

Alkalinity in aqueous matrices as mg CaCO<sub>3</sub>/L

Turbidity in aqueous matrices

Chloride in aqueous matrices

True Color measured at 450 nm (not valid for NPDES monitoring)

Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)

Sulfate in aqueous matrices

Total Dissolved Solids in aqueous matrices

Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample

Container ID: BP-1L

Qty: 1 Preservation: ICE

Lot # 1349942

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry

Container ID: P-500ML

Qty: 1 Preservation: ICE And H2SO4

Lot # 0083841

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

Analysis

W-NH3

W-NO2NO3

W-S-A-TP

W-TKN

W-TOC

Description

Ammonia in aqueous matrices as mg N/L

Nitrite/Nitrate in aqueous matrices as mg N/L

Total Phosphorus in aqueous matrices as mg P/L

Total Kjeldahl Nitrogen in aqueous matrices

Nonpurgeable Organic Carbon in aqueous matrices

Container ID: P-125ML

Qty: 1 Preservation: FILTER-ICE

Lot # 0083828

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Bottle Group: B

# of Sites: 1

Container ID: BP-1L

Qty: 1 Preservation: Lugols

Lot # 1349942

Description: Brown Plastic Bottle 1L

Analysis

DTY-QN-C

PKD-QN-BV

Description

No. of diatom taxa of quantitative phytoplankton sample.

No. of wet taxa of quantitative phytoplankton sample w/speciation and cell counts.

Bottle Group: C

# of Sites: 1

Container ID: P-1L

Qty: 1 Preservation: ICE

Lot # 0084033

Description: Plastic Bottle 1L

Analysis

ALKALINITY

TURBIDITY

W-CL-IC

W-COLOR

W-F

Description

Alkalinity in aqueous matrices as mg CaCO3/L

Turbidity in aqueous matrices

Chloride in aqueous matrices

True Color measured at 450 nm (not valid for NPDES monitoring)

Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)

|          |                                                                                |
|----------|--------------------------------------------------------------------------------|
| W-SO4-IC | Sulfate in aqueous matrices                                                    |
| W-TDS    | Total Dissolved Solids in aqueous matrices                                     |
| W-TSS    | Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample |

Container ID: BP-1L

Qty: 1 Preservation: ICE

Lot # 1349942

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry

Container ID: P-500ML

Qty: 1 Preservation: HNO3

Lot # 00083841

Description: Plastic Bottle 500 mL

Affix RED nitric acid dot to container.

Analysis

W-HARD

W-ICP

W-ICPMS

Description

Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3

Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects

Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects

Container ID: P-500ML

Qty: 1 Preservation: ICE And H2SO4

Lot # 00083841

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

Analysis

W-NH3

W-NO2NO3

W-S-A-TP

W-TKN

W-TOC

Description

Ammonia in aqueous matrices as mg N/L

Nitrite/Nitrate in aqueous matrices as mg N/L

Total Phosphorus in aqueous matrices as mg P/L

Total Kjeldahl Nitrogen in aqueous matrices

Nonpurgeable Organic Carbon in aqueous matrices

Bottle Group: D

# of Sites: 1

Container ID: P-1L

Qty: 1 Preservation: ICE

Lot # 00084033

Description: Plastic Bottle 1L

Analysis

ALKALINITY

TURBIDITY

W-CL-IC

W-COLOR

W-F

W-SO4-IC

W-TDS

W-TSS

Description

Alkalinity in aqueous matrices as mg CaCO3/L

Turbidity in aqueous matrices

Chloride in aqueous matrices

True Color measured at 450 nm (not valid for NPDES monitoring)

Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)

Sulfate in aqueous matrices

Total Dissolved Solids in aqueous matrices

Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample

Container ID: BP-1L

Qty: 1 Preservation: ICE

Lot # 1349942

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry

Container ID: BG-500ML

Qty: 1

Preservation: CH<sub>2</sub>ClCOOH and Ice

Lot # 80083119

Description: Brown Glass Bottle 500ML \*FILL Completely\*

Affix BLUE dot to container.

Analysis

W-CARB-AA

Description

Carbamates in water matrices by HPLC/MS/MS

Container ID: BG-500ML FILL TO TOP

Qty: 4

Preservation: ICE

Lot # 80083119

Description: Brown Glass Bottle 500ML \*Fill Completely\*

Affix BLUE dot to container.

Analysis

W-CT-CI-R

W-PCB-TQ-R

W-PCL-TQ-R

Description

Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization

PCBs in water matrices by GC/MS/MS

Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS/MS

Container ID: BG-500ML

Qty: 1

Preservation: ICE

Lot # 80083119

Description: Brown Glass Bottle 500ML \*FILL Completely\*

Affix BLUE dot to container.

Analysis

W-E8321-DI

W-E8321-MS

Description

Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

Container ID: P-250ML

Qty: 1

Preservation: FILTER-ICE

Lot # 80080644

Description: Plastic Bottle 250 mL

Analysis

W-F-F

Description

Fluoride, dissolved, in filtered aqueous matrices, without distillation (not valid for NPDES monitoring)

Container ID: P-500ML

Qty: 1

Preservation: ICE And H<sub>2</sub>SO<sub>4</sub>

Lot # 80083841

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

Analysis

W-NH<sub>3</sub>

W-NO<sub>2</sub>NO<sub>3</sub>

Description

Ammonia in aqueous matrices as mg N/L

Nitrite/Nitrate in aqueous matrices as mg N/L

W-S-A-TP

W-TKN

W-TOC

Total Phosphorus in aqueous matrices as mg P/L

Total Kjeldahl Nitrogen in aqueous matrices

Nonpurgeable Organic Carbon in aqueous matrices

Container ID: BG-1L

Qty: 4 Preservation: ICE

Lot # 05083846

Description: Brown Glass Bottle 1L

Affix BLUE dot to container.

**Analysis**

W-PSNP-TQ

W-TR-SQ-R

**Description**

Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS

Analysis of Sunscreen Compounds and Flame Retardants in Water by GC/MS-SIM

Cooler Packed By: AD

Number of Coolers: 2

Date: 9-14-22

Kit must also include:

- ☒ Field Sheets
- ☒ Temperature Control Bottle
- ☒ FedEx Bills, if applicable
- ☒ Plastic Bags/Zip Ties
- ☒ Acid Labels (sets of 24)

If Preservation Included:

|                             |     |       |
|-----------------------------|-----|-------|
| ID -                        | Exp | Lot # |
| ID - <b>MCAA BUFFER SOL</b> | Exp | Lot # |
| SER: # 128343               | Exp | Lot # |
| ID - EXP: 02/04/2023        | Exp | Lot # |
| ID                          | Exp | Lot # |
| ID                          | Exp | Lot # |

**PLEASE RETURN ALL COOLERS FOR RQ-2022-09-19-21**