

# Login Checklist

RQ- **2023 - 05 - 22 - 19**

Login Station ID: **# 2**

Shipping Method: **FedEx** | UPS | HD | Greyhound

Date/Time of Receipt: **05/24/2023 / 09:29**

| *Cooler Temperature | Samples Frozen? | * All Samples in Cooler Preserved with |          | Number of Sample Containers in Cooler | Evidence Tape |    |          |    | Waybill Tracking # |
|---------------------|-----------------|----------------------------------------|----------|---------------------------------------|---------------|----|----------|----|--------------------|
|                     |                 |                                        |          |                                       | Present?      |    | *Intact? |    |                    |
|                     | YES             | HNO <sub>3</sub>                       | Formalin |                                       | Yes           | No | Yes      | No |                    |
| 1.9c                |                 |                                        |          | 3                                     |               | x  |          |    | 5859 4735 8970     |
|                     |                 |                                        |          |                                       |               |    |          |    |                    |
|                     |                 |                                        |          |                                       |               |    |          |    |                    |
|                     |                 |                                        |          |                                       |               |    |          |    |                    |
|                     |                 |                                        |          |                                       |               |    |          |    |                    |
|                     |                 |                                        |          |                                       |               |    |          |    |                    |

## COOLER CHECK

\*All samples received on ice unless otherwise noted. HNO3 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# **9892**

Chain of Custody/ Field Sheet(s) Included?

Yes **x** No \_\_\_\_\_

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

Yes **x** No **abs**

## CONTAINER CHECK

Evidence Tape on Bottles?

Yes \_\_\_\_\_ No \_\_\_\_\_ NA **x** Evidence Tape intact? Yes \_\_\_\_\_ No \_\_\_\_\_

If Criminal, photographs taken?

Yes \_\_\_\_\_ No \_\_\_\_\_ Containers intact? Yes **x** No \_\_\_\_\_

Caps on tight?

Yes **x** No \_\_\_\_\_

Sufficient Sample Volume:

Yes **x** 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 **x** Init: **ABS** /

Chlorine detected? (One container checked per Field ID)

Yes \_\_\_\_\_ No **x** Init: **ABS** /

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 **x** No \_\_\_\_\_ NA \_\_\_\_\_ Init: **ABS** /

\*\*W-1-4-DIOX (Green dot on container) preserved to pH<4.0?

Yes \_\_\_\_\_ No \_\_\_\_\_ NA **x** Init: **ABS** /

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

Coolers Unpacked/Checked by: **ABS** /

Date: **05/24/2023**

Event contains NCRs (Y/N)? **N**

EventID: **NW - DIST - 2023 - 05 - 24 - 01**

## Login Checklist

## Login Preservation Equipment

**Lot # & Exp: Date**

**Additional Comments:**

|                                 |                                 |
|---------------------------------|---------------------------------|
| <b>Infrared Thermometer ID:</b> | <b>IRTG # 2 EXP:10/17/2023</b>  |
| <b>pH Test Strips 0 – 6</b>     | <b>LOT#223819AV EXP:8/30/23</b> |
| <b>pH Paper 0 – 3</b>           | <b>N/A</b>                      |
| <b>pH Paper 0 – 13</b>          | <b>LOT#207621 EXP:3/15/2024</b> |
| <b>Chlorine Test Strips</b>     | <b>LOT#207621 EXP:3/15/2024</b> |

1196/2024/02 abs/04/03/23

[illegible]

## ENCORE SAMPLES

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

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

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:** 5/22/2023      **Collected By:** Nathan Mulkey, Hannah Henning  
**Customer:** NW-DIST      **Sampling Agency:** FDEP  
**RQ:** RQ-2023-05-22-19      **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:** 1

**Delivery Method:** FedEx

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

| Site Location                                       | Field ID/WIN ID                                                                                  |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------|
| EAST BAY 1000 YDS WEST OF MOUTH                     | <br>G4NW0035   |
| BLACKWATER BAY CENTER                               | <br>G4NW0509   |
| BLACKWATER RIVER END DOG ISL BUOY 32                | <br>G4NW0032 |
| BLACKWATER RIVER BELOW POND CREEK                   | <br>G4NW0243 |
| BLACKWATER RIVER UPSTREAM OF RUSSELL HARBOR LANDING | <br>G4NW0508 |

RELINQUISHED BY(SIGNATURE):



DATE/TIME: 5/22/2023  
1600 CEN

**THIS SECTION TO BE COMPLETED BY LABORATORY**

**Rec'd/Inspected By:**

**Rec'd/Inspected  
Date:**

2x Fcoli 5/24/23 9:47



|                                                                                                                                               |                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| RQ-2023-05-22-19                                                                                                                              | <b>Collected By:</b> Nathan Mulkey, Hannah Henning                        |
| <b>Customer:</b> FDEP                                                                                                                         | <b>Field Report Prepared by:</b> Nathan Mulkey, Hannah Henning            |
| <b>Project ID:</b> SMP                                                                                                                        | <b>Sampling Agency:</b> FDEP                                              |
| <b>WIN ID/Field ID:</b> <br><b>WIN ID/Field ID:</b> G4NW0035 | <b>Comments:</b> Microbiology sample(s) submitted to contract laboratory. |

**Location:** EAST BAY 1000 YDS WEST OF MOUTH

**Matrix:** Marine

(Check One)

☒ Grab

☐ Composite

| Date and Time {CEN}                | DO (mg/L)                                                                    | DO (%SAT)      | Temp. °C                                 | pH     | Sample Depth (m) | Secchi Depth | Total Depth (m) | Sp COND (µmhos/cm)    | Salinity (PPT) |       |           |           |   |
|------------------------------------|------------------------------------------------------------------------------|----------------|------------------------------------------|--------|------------------|--------------|-----------------|-----------------------|----------------|-------|-----------|-----------|---|
| 5/22/2023<br>900                   | 7.3                                                                          | 97.8           | 27.1                                     | 7.4    | 0.3              | 1.3          | 1.8             | 19090                 | 11.3           |       |           |           |   |
| Parameter Suite                    | Parameter Methods                                                            |                |                                          |        | Preservation     |              | pH Check        | # Bottles sent to Lab | Bottle Group   |       |           |           |   |
| Preserved Nutrients (P-500ML)      | W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP                                  |                |                                          |        | Ice              | H2SO4*       | <2              |                       |                |       |           |           |   |
|                                    | Lot #                                                                        |                | Exp:                                     |        |                  |              |                 |                       |                |       |           |           |   |
| Metals (P-500ML)                   | X                                                                            | W-ICPMS        | X                                        | W-ICP  | X                | W-HARD       | X               | Ice                   | X              | HNO3* |           |           |   |
|                                    | Lot #                                                                        |                | 2230040                                  |        | Exp:             |              | 09/01/23        |                       | <2             | 1     | A         |           |   |
| 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)                | CHLSUITE-W                                                                   |                |                                          |        | Ice              |              |                 |                       |                |       |           |           |   |
| Physical/Aggregate (Fresh) (P-1L)  | Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W- TDS |                |                                          |        | Ice              |              |                 |                       |                |       |           |           |   |
| 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                                                                       |                | X                                        | F Coli | X                | Enterococci  |                 |                       |                | X     | Ice       | 2         | A |
|                                    | X                                                                            | 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-CARB-AA (5 ml of MCAA Buffer Solution) |        | W-CT-CL-R        |              |                 |                       |                |       |           |           |   |
|                                    | W-TR-SQ-R                                                                    |                | W-PCB-TQ-R                               |        |                  |              |                 |                       |                |       |           |           |   |
| Phytoplankton                      | DTY-QN-C                                                                     |                | PKD-QN-BV                                |        |                  | Ice          |                 |                       |                |       |           |           |   |
| DOC                                | W-DOC                                                                        |                | Field Filtered 0.45 µm Filter            |        |                  | Ice          | H2SO4*          | <2                    |                |       |           |           |   |
|                                    |                                                                              |                | Acid Preservative Expiration Date        |        |                  |              |                 |                       |                |       |           |           |   |
|                                    |                                                                              |                | Acid Preservative Lot Number             |        |                  |              |                 |                       |                |       |           |           |   |



|                                                                                                                                 |                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| RQ-2023-05-22-19                                                                                                                | Collected By: Nathan Mulkey, Hannah Henning                        |
| Customer: FDEP                                                                                                                  | Field Report Prepared by: Nathan Mulkey, Hannah Henning            |
| Project ID: SMP                                                                                                                 | Sampling Agency: FDEP                                              |
| WIN ID/Field ID: <br>WIN ID/Field ID: G4NW0509 | Comments: Microbiology sample(s) submitted to contract laboratory. |

Location: BLACKWATER BAY CENTER

Matrix: Marine

(Check One)

☒ Grab☐ Composite

| Date and Time {CEN}                | DO (mg/L) | DO (%SAT)                                                                    | Temp. °C | pH            | Sample Depth (m) | Secchi Depth | Total Depth (m) | Sp COND (µmhos /cm) | Salinity (PPT)        |              |  |  |
|------------------------------------|-----------|------------------------------------------------------------------------------|----------|---------------|------------------|--------------|-----------------|---------------------|-----------------------|--------------|--|--|
| 5/22/2023 1045                     | 8         | 103.6                                                                        | 27.7     | 7.5           | 0.3              | 1.1          | 2.6             | 9700                | 5.43                  |              |  |  |
| Parameter Suite                    |           | Parameter Methods                                                            |          |               |                  | Preservation |                 | pH Check            | # Bottles sent to Lab | Bottle Group |  |  |
| Preserved Nutrients (P-500ML)      |           | W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP                                  |          |               |                  | Ice          |                 | H2SO4*              | <2                    |              |  |  |
|                                    |           | Lot #                                                                        |          | Exp:          |                  |              |                 |                     |                       |              |  |  |
| Metals (P-500ML)                   |           | W-ICPMS / W-ICP / W-HARD                                                     |          |               |                  | Ice          |                 | HNO3*               |                       |              |  |  |
|                                    |           | Lot #                                                                        |          | Exp:          |                  |              |                 |                     |                       |              |  |  |
| Filtered Nutrients (P125ML)        |           | W-PO4-F / Field Filtered 0.45 um Filter                                      |          |               |                  | Ice          |                 |                     |                       |              |  |  |
|                                    |           | Filter Lot #                                                                 |          | Syringe Lot # |                  |              |                 |                     |                       |              |  |  |
| BOD (BP-1L)                        |           | OV-BODUNIN                                                                   |          |               |                  | Ice          |                 |                     |                       |              |  |  |
| Chlorophyll (BP-1L)                |           | CHLSUITE-W                                                                   |          |               |                  | Ice          |                 |                     |                       |              |  |  |
| Physical/Aggregate (Fresh) (P-1L)  |           | Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W- TDS |          |               |                  | Ice          |                 |                     |                       |              |  |  |
| 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 / X / F Coli / X / Enterococci                                        |          |               |                  | x Ice        |                 |                     | 2                     | B            |  |  |
|                                    |           | 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-CARB-AA (5 ml of MCAA Buffer Solution) / W-CT-CL-R            |          |               |                  |              |                 |                     |                       |              |  |  |
|                                    |           | W-TR-SQ-R / W-PCB-TQ-R                                                       |          |               |                  |              |                 |                     |                       |              |  |  |
| Phytoplankton                      |           | DTY-QN-C / PKD-QN-BV                                                         |          |               |                  | Ice          |                 |                     |                       |              |  |  |
| DOC                                |           | W-DOC / Field Filtered 0.45 um Filter                                        |          |               |                  | Ice          |                 | H2SO4*              | <2                    |              |  |  |
|                                    |           | Acid Preservative Expiration Date                                            |          |               |                  |              |                 |                     |                       |              |  |  |
|                                    |           | Acid Preservative Lot Number                                                 |          |               |                  |              |                 |                     |                       |              |  |  |

|                                                                                                                                 |                  |                                                                             |                                          |                                  |                                                                                         |                                                         |                 |                    |                       |              |     |   |   |
|---------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------|------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------|-----------------|--------------------|-----------------------|--------------|-----|---|---|
|                                                | RQ-2023-05-22-19 |                                                                             |                                          |                                  |                                                                                         | Collected By: Nathan Mulkey, Hannah Henning             |                 |                    |                       |              |     |   |   |
|                                                                                                                                 | Customer: FDEP   |                                                                             |                                          |                                  |                                                                                         | Field Report Prepared by: Nathan Mulkey, Hannah Henning |                 |                    |                       |              |     |   |   |
|                                                                                                                                 | Project ID: SMP  |                                                                             |                                          |                                  |                                                                                         | Sampling Agency: FDEP                                   |                 |                    |                       |              |     |   |   |
| WIN ID/Field ID: <br>WIN ID/Field ID: G4NW0032 |                  |                                                                             |                                          |                                  | Comments: Microbiology sample(s) submitted to contract laboratory.                      |                                                         |                 |                    |                       |              |     |   |   |
| Location: BLACKWA RI N END DOG ISL BUOY 32                                                                                      |                  |                                                                             |                                          |                                  |                                                                                         |                                                         |                 |                    |                       |              |     |   |   |
| Matrix: Fresh                                                                                                                   |                  |                                                                             |                                          |                                  | (Check One) <input checked="" type="checkbox"/> Grab <input type="checkbox"/> Composite |                                                         |                 |                    |                       |              |     |   |   |
| Date and Time {CEN}                                                                                                             | DO (mg/L)        | DO (%SAT)                                                                   | Temp. °C                                 | pH                               | Sample Depth (m)                                                                        | Secchi Depth                                            | Total Depth (m) | Sp COND (µmhos/cm) | Salinity (PPT)        |              |     |   |   |
| 5/22/2023 1115                                                                                                                  | 7.43             | 93.4                                                                        | 26.7                                     | 6.45                             | 0.3                                                                                     | 1.1                                                     | 2.1             | 3160               | 1.65                  |              |     |   |   |
| Parameter Suite                                                                                                                 |                  | Parameter Methods                                                           |                                          |                                  | Preservation                                                                            |                                                         | pH Check        |                    | # Bottles sent to Lab | Bottle Group |     |   |   |
| Preserved Nutrients (P-500ML)                                                                                                   |                  | W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP                                 |                                          |                                  | Ice      H2SO4*                                                                         |                                                         | <2              |                    |                       |              |     |   |   |
|                                                                                                                                 |                  | Lot #                                                                       |                                          | Exp:                             |                                                                                         |                                                         |                 |                    |                       |              |     |   |   |
| Metals (P-500ML)                                                                                                                |                  | W-ICPMS      W-ICP      W-HARD                                              |                                          |                                  | Ice      HNO3*                                                                          |                                                         | <2              |                    |                       |              |     |   |   |
|                                                                                                                                 |                  | Lot #                                                                       |                                          | Exp:                             |                                                                                         |                                                         |                 |                    |                       |              |     |   |   |
| Filtered Nutrients (P125ML)                                                                                                     |                  | W-PO4-F      Field Filtered 0.45 um Filter                                  |                                          |                                  | Ice                                                                                     |                                                         |                 |                    |                       |              |     |   |   |
|                                                                                                                                 |                  | Filter Lot #                                                                | Syringe Lot #                            |                                  |                                                                                         |                                                         |                 |                    |                       |              |     |   |   |
| BOD (BP-1L)                                                                                                                     |                  | OV-BODUNIN                                                                  |                                          |                                  | Ice                                                                                     |                                                         |                 |                    |                       |              |     |   |   |
| Chlorophyll (BP-1L)                                                                                                             |                  | CHLSUITE-W                                                                  |                                          |                                  | Ice                                                                                     |                                                         |                 |                    |                       |              |     |   |   |
| Physical/Aggregate (Fresh) (P-1L)                                                                                               |                  | Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS |                                          |                                  | Ice                                                                                     |                                                         |                 |                    |                       |              |     |   |   |
| 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                                   | X                                | Enterococci                                                                             | x                                                       |                 |                    |                       |              | Ice | 1 | C |
|                                                                                                                                 |                  | 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-CARB-AA (5 ml of MCAA Buffer Solution) |                                  | W-CT-CL-R                                                                               |                                                         |                 |                    |                       |              |     |   |   |
|                                                                                                                                 |                  | W-TR-SQ-R                                                                   |                                          | W-PCB-TQ-R                       |                                                                                         |                                                         |                 |                    |                       |              |     |   |   |
| Phytoplankton                                                                                                                   |                  | DTY-QN-C                                                                    |                                          | PKD-QN-BV                        |                                                                                         | Ice                                                     |                 |                    |                       |              |     |   |   |
| DOC                                                                                                                             |                  | W-DOC                                                                       |                                          | Field Filtered 0.45 um Filter    |                                                                                         | Ice      H2SO4*                                         |                 | <2                 |                       |              |     |   |   |
|                                                                                                                                 |                  |                                                                             |                                          | Add Preservative Expiration Date |                                                                                         |                                                         |                 |                    |                       |              |     |   |   |
|                                                                                                                                 |                  |                                                                             |                                          | Add Preservative Lot Number      |                                                                                         |                                                         |                 |                    |                       |              |     |   |   |



RQ-2023-05-22-19

Customer: FDEP

Project ID: SMP

Collected By: Nathan Mulkey, Hannah Henning

Field Report Prepared by: Nathan Mulkey,  
Hannah Henning

Sampling Agency: FDEP

WIN ID/Field ID:



WIN ID/Field ID: G4NW0243

Comments: Microbiology sample(s) submitted to contract laboratory.

Location: BLACKWATER RIVER BELOW POND CREEK

Matrix: Fresh

(Check One)

☒ Grab☐ Composite

| Date and Time {CEN}                | DO (mg/L)                                                                   | DO (%SAT)                                | Temp. °C  | pH          | Sample Depth (m) | Secchi Depth | Total Depth (m) | Sp COND (µmhos/cm)    | Salinity (PPT) |   |   |
|------------------------------------|-----------------------------------------------------------------------------|------------------------------------------|-----------|-------------|------------------|--------------|-----------------|-----------------------|----------------|---|---|
| 5/22/2023 1130                     | 7.46                                                                        | 93.5                                     | 26.6      | 6.75        | 0.3              | 1.1          | 3               | 2421                  | 1.24           |   |   |
| Parameter Suite                    | Parameter Methods                                                           |                                          |           |             | Preservation     |              | pH Check        | # Bottles sent to Lab | Bottle Group   |   |   |
| Preserved Nutrients (P-500ML)      | W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP                                 |                                          |           |             | Ice H2SO4*       |              | <2              |                       |                |   |   |
|                                    | Lot #                                                                       |                                          | Exp:      |             |                  |              |                 |                       |                |   |   |
| Metals (P-500ML)                   | W-ICPMS W-ICP W-HARD                                                        |                                          |           |             | Ice HNO3*        |              | <2              |                       |                |   |   |
|                                    | Lot #                                                                       |                                          | Exp:      |             |                  |              |                 |                       |                |   |   |
| 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)                | CHLSUITE-W                                                                  |                                          |           |             | Ice              |              |                 |                       |                |   |   |
| Physical/Aggregate (Fresh) (P-1L)  | Alkalinity / W-F / W-TSS / TURBIDITY / W-CL-IC / W-COLOR / W-SO4-IC / W-TDS |                                          |           |             | Ice              |              |                 |                       |                |   |   |
| 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                                   | X         | Enterococci | x                | Ice          |                 |                       |                | 1 | C |
|                                    | X 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-CARB-AA (5 ml of MCAA Buffer Solution) | W-CT-CL-R |             |                  |              |                 |                       |                |   |   |
|                                    | W-TR-SQ-R                                                                   | W-PCB-TQ-R                               |           |             |                  |              |                 |                       |                |   |   |
| Phytoplankton                      | DTY-QN-C                                                                    |                                          | PKD-QN-BV |             | Ice              |              |                 |                       |                |   |   |
| DOC                                | W-DOC                                                                       | Field Filtered 0.45 µm Filter            |           |             | Ice              | H2SO4*       | <2              |                       |                |   |   |
|                                    |                                                                             | Acid Preservative Expiration Date        |           |             |                  |              |                 |                       |                |   |   |
|                                    |                                                                             | Acid Preservative Lot Number             |           |             |                  |              |                 |                       |                |   |   |



|                  |                                                         |
|------------------|---------------------------------------------------------|
| RQ-2023-05-22-19 | Collected By: Nathan Mulkey, Hannah Henning             |
| Customer: FDEP   | Field Report Prepared by: Nathan Mulkey, Hannah Henning |
| Project ID: SMP  | Sampling Agency: FDEP                                   |

WIN ID/Field ID:   
WIN ID/Field ID: G4NW0508

Comments: Microbiology sample(s) submitted to contract laboratory.

Location: BLACKWATER RIVER UPSTREAM OF RUSSELL HARBOR LANDING

Matrix: Fresh

(Check One)

☒ Grab

☐ Composite

| Date and Time {CEN}                | DO (mg/L) | DO (%SAT)                                                                    | Temp. °C       | pH                                       | Sample Depth (m) | Secchi Depth | Total Depth (m) | Sp COND (µmhos /cm) | Salinity (PPT <sub>h</sub> ) |                       |              |     |   |   |
|------------------------------------|-----------|------------------------------------------------------------------------------|----------------|------------------------------------------|------------------|--------------|-----------------|---------------------|------------------------------|-----------------------|--------------|-----|---|---|
| 5/22/2023 1155                     | 7.44      | 93.4                                                                         | 26.9           | 6.21                                     | 0.3              | 1.2          | 4.8             | 500                 | 0.24                         |                       |              |     |   |   |
| Parameter Suite                    |           | Parameter Methods                                                            |                |                                          |                  | Preservation |                 | pH Check            |                              | # Bottles sent to Lab | Bottle Group |     |   |   |
| Preserved Nutrients (P-500ML)      |           | W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP                                  |                |                                          |                  | Ice          | H2SO4*          |                     | <2                           |                       |              |     |   |   |
|                                    |           | Lot #                                                                        |                | Exp:                                     |                  |              |                 |                     |                              |                       |              |     |   |   |
| Metals (P-500ML)                   |           | W-ICPMS                                                                      |                | W-ICP                                    | W-HARD           | Ice          | HNO3*           |                     | <2                           |                       |              |     |   |   |
|                                    |           | Lot #                                                                        |                | Exp:                                     |                  |              |                 |                     |                              |                       |              |     |   |   |
| Filtered Nutrients (P125ML)        |           | W-PO4-F                                                                      |                | Field Filtered 0.45 um Filter            |                  | Ice          |                 |                     |                              |                       |              |     |   |   |
|                                    |           | Filter Lot #                                                                 |                | Syringe Lot #                            |                  |              |                 |                     |                              |                       |              |     |   |   |
| BOD (BP-1L)                        |           | OV-BODUNIN                                                                   |                |                                          |                  | Ice          |                 |                     |                              |                       |              |     |   |   |
| Chlorophyll (BP-1L)                |           | CHLSUITE-W                                                                   |                |                                          |                  | Ice          |                 |                     |                              |                       |              |     |   |   |
| Physical/Aggregate (Fresh) (P-1L)  |           | Alkalinity / W-F / W-TSS / TURBIDITY / W-CL-IC / W-COLOR / W-SO4-IC / W- TDS |                |                                          |                  | Ice          |                 |                     |                              |                       |              |     |   |   |
| 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) |           | X                                                                            | E Coli         | F Coli                                   | Enterococci      | x            |                 |                     |                              |                       |              | Ice | 1 | D |
|                                    |           | X                                                                            | 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                               |                  | Ice          | MCAA Exp.       | MCAA Lot#           |                              |                       |              |     |   |   |
|                                    |           | W-PCL-TQ-R                                                                   |                | W-CARB-AA (5 ml of MCAA Buffer Solution) |                  |              |                 |                     |                              |                       |              |     |   |   |
|                                    |           | W-TR-SQ-R                                                                    |                | W-PCB-TQ-R                               |                  |              |                 |                     |                              |                       |              |     |   |   |
| Phytoplankton                      |           | DTY-QN-C                                                                     |                | PKD-QN-BV                                |                  | Ice          |                 |                     |                              |                       |              |     |   |   |
| DOC                                |           | W-DOC                                                                        |                | Field Filtered 0.45 um Filter            |                  | Ice          | H2SO 4*         | <2                  |                              |                       |              |     |   |   |
|                                    |           |                                                                              |                | Acid Preservative Expiration Date        |                  |              |                 |                     |                              |                       |              |     |   |   |
|                                    |           |                                                                              |                | Acid Preservative Lot Number             |                  |              |                 |                     |                              |                       |              |     |   |   |





Date of Request: 18-APR-2023  
 Created By: SLADE\_C On: 18-APR-2023  
 Modified By: JASROTIA\_P On: 04-MAY-2023  
 Customer: NW-DIST  
 Project: SMP  
 Division: Division of Environmental Assessment and Restoration  
 District: Northwest District  
 Event Description: Blackwater Bay Run

**Send Coolers To:**

Phone: 850-595-0567  
 160 W Government Street  
 Suite 208  
 Pensacola, FL 32502-5794  
 Attn: Stopher Slade  
 Cooler Ship EMail: christopher.slade@dep.state.fl.us

Priority: 3  
 Event Status: R  
 Criminal Investigation: NO  
 Chemistry Request Reviewed By: AYRES\_J On: 04-MAY-2023  
 Biology Request Reviewed By: JASROTIA\_P On: 04-MAY-2023  
 Sampling Kit Required: YES Ship on: 12-MAY-2023  
 Sampling Kit Shipped: YES On: 08-MAY-2023  
 Sampling Kit Packed By: KREUCH\_B  
 Preservatives Needed: NO  
 Date to Receive Samples: 22-MAY-2023  
 Logged In By: SHAIK\_A On: 24-MAY-2023

**Send Final Report To:**

160 W Government Street  
 Suite 208  
 Pensacola, FL 32502-5794  
 Attn: Myranda Butler  
 Report Notification EMail:  
 christopher.slade@floridadep.gov;Myranda.k.butler@floridadep.gov;

Comments: Group A: (WBID 548H) Metals, Contract Lab Bacteria, Bacteria  
 Group B: (WBID 548GB) Contract Lab Bacteria, Bacteria  
 Group C: (WBID 548GA, 24AB) Contract Lab Bacteria  
 Group D: (WBID 24AA) Contract Lab Bacteria

Packing notes;

FedEx return packing slips

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

|                             |                      |                                                                                                                                                |
|-----------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-250ML-WO-THI | Number of Bottles: 1 | Preserved With: ICE                                                                                                                            |
| FCOLI-MF                    | Template: DEFAULT    | (SM 9222 D) Fecal coliforms by membrane filter method - non-chlorinated water systems                                                          |
| Bottle Type: TEST HAS NO    | Number of Bottles: 1 | Preserved With: ICE                                                                                                                            |
| NW-UWF-ENQ                  | Template: DEFAULT    | (Enterolert/QT) Enterococci by Enterolert/QT by UWF in Pensacola                                                                               |
| 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                    |                      |                                                                                                                                                |

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

|                      |                      |                                                                                                                                                |
|----------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-500ML | Number of Bottles: 1 | Preserved With: HNO3                                                                                                                           |
| 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 |
| 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 B (Water) With 1 Samples:**

|                             |                      |                                                                                       |
|-----------------------------|----------------------|---------------------------------------------------------------------------------------|
| Bottle Type: P-250ML-WO-THI | Number of Bottles: 1 | Preserved With: ICE                                                                   |
| FCOLI-MF                    | Template: DEFAULT    | (SM 9222 D) Fecal coliforms by membrane filter method - non-chlorinated water systems |
| Bottle Type: TEST HAS NO    | Number of Bottles: 1 | Preserved With: ICE                                                                   |
| NW-UWF-ENQ                  | Template: DEFAULT    | (Enterolert/QT) Enterococci by Enterolert/QT by UWF in Pensacola                      |

**Bottle Group C (Water) With 2 Samples:**

|                          |                      |                                                                  |
|--------------------------|----------------------|------------------------------------------------------------------|
| Bottle Type: TEST HAS NO | Number of Bottles: 2 | Preserved With: ICE                                              |
| NW-UWF-ENQ               | Template: DEFAULT    | (Enterolert/QT) Enterococci by Enterolert/QT by UWF in Pensacola |

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

|                          |                      |                                                                       |
|--------------------------|----------------------|-----------------------------------------------------------------------|
| Bottle Type: TEST HAS NO | Number of Bottles: 1 | Preserved With: ICE                                                   |
| NW-UWF-ECQ               | Template: DEFAULT    | (SM 9223 B Quanti-Tray) E. coli by Colilert-18/QT by UWF in Pensacola |