

# Login Checklist

RQ-2020-09-21-23

Login Station ID: #4

Shipping Method: ☒ FedEx ☐ UPS ☒ HD ☐ Greyhound

Date/Time of Receipt: 10/22/2020 @ 10:35

| *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 |                    |
| 0.8℃                |                 |                                        |          | 4                                     |               | x  |          |    |                    |
|                     |                 |                                        |          |                                       |               |    |          |    |                    |
|                     |                 |                                        |          |                                       |               |    |          |    |                    |
|                     |                 |                                        |          |                                       |               |    |          |    |                    |
|                     |                 |                                        |          |                                       |               |    |          |    |                    |
|                     |                 |                                        |          |                                       |               |    |          |    |                    |
|                     |                 |                                        |          |                                       |               |    |          |    |                    |

## 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: Tyler

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: Tyler

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

Yes ☐ No ☐ NA ☒ Init: Tyler

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

Coolers Unpacked/Checked by: Tyler Reynolds

Date: 10/22/2020

Event contains NCRs (Y/N)? None

Event ID:

Milton Run

NW-DIST-2020-10-22-01 (SMP)

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Date Received: 22-OCT-2020 10:35

# Login Checklist

## Login Preservation Equipment

## Lot # & Exp: Date

## Additional Comments:

|                          |                            |
|--------------------------|----------------------------|
| Infrared Thermometer ID: | #4 Temp Gun EXP:11/05/2020 |
| pH Test Strips 0 – 6     |                            |
| pH Paper 0 – 3           |                            |
| pH Paper 0 – 13          | 231019 EXP:11/01/2022      |
| Chlorine Test Strips     | 8261 EXP:07/2021           |

## ENCORE SAMPLES

**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# \_\_\_\_\_

## FOR CLEAN LAB USE ONLY – Total Mercury Preservation Check (W-HG-AF;W-HG-AF-F):

Samples preserved within 48 hours? Yes \_\_\_\_\_ No \_\_\_\_\_

Date and time samples preserved: \_\_\_\_\_

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
CHAIN OF CUSTODY FORM

**Date:** 10/21/2020  
**Customer:** NW-DIST  
**RQ:** RQ-2020-09-21-23

**Collected By:** Heather Schmuki, Nathan Mulkey  
**Sampling Agency:** FDEP  
**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

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

| Site Location                  | Field ID/WIN ID                                                                                |
|--------------------------------|------------------------------------------------------------------------------------------------|
| Eagle Creek Upstream Of Hwy 20 | <br>G3NW0151 |

RELINQUISHED BY(SIGNATURE):

*Heather Schmuki*

DATE/TIME: 10/21/2020; 14:38

**THIS SECTION TO BE COMPLETED BY LABORATORY**

Rec'd/Inspected By: *Tyler R.*

Rec'd/Inspected Date: *10/22/2020*

# CALIBRATION AND VERIFICATION LOG (DEP SOP FT 1000-FT 1500, FD 1000-FD 1000)

Meter ID: **154179**

NO **200009-21-23**

Project: **SMP**

Verify "m" this box if there are units for this data on this page

- Notes: (1) Always wait for meter to stabilize before recording any readings.  
 (2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth)  
 (3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification: **10/13/20**

| DO<br>DEP SOP<br>FT 1500 | Name     | Date    | Time<br>CT-ET | Temp<br>°C | Baro-<br>meter<br>mmHg | D.O.<br>Chart<br>mg/L | Meter<br>D.O.<br>mg/L | % DO  | Probe<br>Charge | Probe<br>Gain | Pass<br>/<br>Fail | Lab<br>/<br>Field |
|--------------------------|----------|---------|---------------|------------|------------------------|-----------------------|-----------------------|-------|-----------------|---------------|-------------------|-------------------|
| Calibr.                  | M. Clark | 10/1/20 | 8:25          | 23.3       | 764                    | 6.6                   | 6.59                  | 100.3 |                 |               | ✓                 | ✓                 |
| ICV                      | ↓        | ↓       | 8:50          | 21.7       | 764                    | 6.8                   | 6.83                  | 99.9  |                 |               | ✓                 | ✓                 |
| CCV                      | ↓        | ↓       | 14:43         | 26.1       | 763                    | 6.1                   | 6.13                  | 99.6  |                 |               | ✓                 | ✓                 |
| CCV                      |          |         |               |            |                        |                       |                       |       |                 |               | P/F               | L/F               |

DO Acceptance criteria from Table ± 0.3 mg/L

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75

Optical: DO gain range 0.85 to 1.15 (Pro DSS 0.75 to 1.50); DO charge N/A. Steady-state & Galvanic Sensors: DO Gain & Charge N/A

| Spec.<br>Cond.<br>FT 1200 | Name     | Date    | Time<br>CT-ET | Lot #   | Expir.<br>Date | Standard<br>µmhos/cm | Meter<br>Reading<br>µmhos/cm | Pass<br>/<br>Fail | Lab<br>/<br>Field |
|---------------------------|----------|---------|---------------|---------|----------------|----------------------|------------------------------|-------------------|-------------------|
| Calibr.                   | M. Clark | 10/1/20 | 8:30          | 200124B | 2/21           | 1000                 | 1001                         | ✓                 | ✓                 |
| ICV                       | ↓        | ↓       | 8:52          | 200124A | 2/21           | 100                  | 104.6                        | ✓                 | ✓                 |
| CCV                       | ↓        | ↓       | 14:45         | 200124A | 2/21           | 100                  | 104.0                        | ✓                 | ✓                 |
| CCV                       |          |         |               |         |                |                      |                              | P/F               | L/F               |

Conductivity Acceptance criteria ± 5%

| pH<br>DEP SOP<br>FT 1100 | Name     | Date    | Time<br>CT-ET | Lot #    | Expir.<br>Date | pH<br>Buffer | Temp<br>°C | Meter<br>reading<br>SU | mV    | Pass<br>/<br>Fail | Lab<br>/<br>Field |
|--------------------------|----------|---------|---------------|----------|----------------|--------------|------------|------------------------|-------|-------------------|-------------------|
| Calibr.                  | M. Clark | 10/1/20 | 8:35          | 20011802 | 3/21           | 7.0          | 22.3       | 7.01                   | -9.9  | ✓                 | ✓                 |
| Calibr.                  | ↓        | ↓       | 8:39          | 2003620  | 9/22           | 4.0          | 23.8       | 4.00                   | 171.7 | ✓                 | ✓                 |
| Calibr.                  | ↓        | ↓       | 8:41          | 200473   | 5/22           | 10.0         | 21.6       | 9.97                   | 246.5 | ✓                 | ✓                 |
| ICV                      | ↓        | ↓       | 8:46          | 2003620  | 4/22           | 4.0          | 23.0       | 3.92                   | 174.9 | ✓                 | ✓                 |
| CCV                      | ↓        | ↓       | 14:47         | 2004862  | 3/21           | 7.0          | 22.1       | 7.05                   | -10.0 | ✓                 | ✓                 |
| CCV                      |          |         |               |          |                |              |            |                        |       | P/F               | L/F               |

pH Acceptance criteria ± 0.1 pH

mV pH 4 Range when < 4.0

mV pH 6 Range when > 6.0

mV pH 10 Range when > 10.0

mV are recorded. Range from 7 to 10

slope: 100 µV/pH

slope must be between 265 and 280 µV/pH

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not on your project)  
 If YES, complete daily Calibr. & ICV Section and list date of last quality depth verification: **10/13/20**  
 If NO, what will be used? Secchi Disk Line / Sonar / Other: **10** Date of last verification:

| Depth Sensor<br>(Daily Calibration &<br>ICV) | Name     | Date    | Time<br>CT-ET | Calibrated<br>Value (0.00 or<br>Offset), meters | ICV Value,<br>meters | Pass/<br>Fail | Lab/<br>Field |
|----------------------------------------------|----------|---------|---------------|-------------------------------------------------|----------------------|---------------|---------------|
| Pressure mode in air                         | M. Clark | 10/1/20 | 8:52          | 0.00                                            | 0.00                 | ✓             | ✓             |

Report two decimal places. Round numbers < 0.5 down, ≥ 0.5 up. ICV acceptance criteria ± 5 m or ± 0.05 m, whichever is greater

REMARKS

Form DEP-10-1, Rev. 10/13/2018



# FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2020

Meter Passed End  
of Day CCV  
☒ Yes / ☐ No

WIN Station Name: Eagle Creek Upstream Of Hwy 20

Date: 10/21/2020

WIN/Field ID: G3NW0151

WBID: 751

ENR:

Latitude: 30.4638

County: WALTON

Org ID: 21FLPNS

Longitude: -86.3762

Receiving Body of Water: Choctawhatchee - St. Andrew

RQ- 2020-09-21-23

| Sampling Team Members               |                                           | WQ Measurements                     | Sample Collection                   | Documentation | Preservation                        | Preservation Check                  |
|-------------------------------------|-------------------------------------------|-------------------------------------|-------------------------------------|---------------|-------------------------------------|-------------------------------------|
| <input checked="" type="checkbox"/> | Heather Schmuki                           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |               |                                     |                                     |
| <input checked="" type="checkbox"/> | <del>Nathan Mulkey</del> HS Myranda Clark |                                     | <input checked="" type="checkbox"/> |               | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/>            |                                           |                                     |                                     |               |                                     |                                     |
| <input type="checkbox"/>            |                                           |                                     |                                     |               |                                     |                                     |

| Sampling Equipment                                   |                                         |
|------------------------------------------------------|-----------------------------------------|
| <input checked="" type="checkbox"/> Sample Container | <input type="checkbox"/> Carboy         |
| <input type="checkbox"/> Dipper                      | <input type="checkbox"/> Van Dorn       |
| <input checked="" type="checkbox"/> Syringe          | <input type="checkbox"/> Pole           |
| Depth measured with: Sonar                           |                                         |
| Secchi Equipment ID:                                 |                                         |
| Collection Method                                    |                                         |
| <input checked="" type="checkbox"/> Wading           | <input type="checkbox"/> Canoe/Kayak    |
| <input type="checkbox"/> From Shore                  | <input type="checkbox"/> Electric Motor |
| <input type="checkbox"/> Other                       | <input type="checkbox"/> Gasoline Motor |

|                                                                                                                                                                                                                                                                 |            |                           |                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------------|------------------------|
| Water Level: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Low <input type="checkbox"/> High <input type="checkbox"/> Dry <input type="checkbox"/> Pooled <input type="checkbox"/> Flooded                                                |            | Meter ID# 154179 (PRODSS) |                        |
| Photos: NA                                                                                                                                                                                                                                                      | Flow: FLOW | Tide: FALLING             | Tide Times: High: Low: |
| Biological Samples Collected: <input checked="" type="checkbox"/> None <input type="checkbox"/> HA <input type="checkbox"/> SCI <input type="checkbox"/> RPS <input type="checkbox"/> Algae ID <input type="checkbox"/> LVS <input type="checkbox"/> LVI Other: |            |                           |                        |
| SBIO ID Numbers:                                                                                                                                                                                                                                                |            |                           |                        |
| Notes:                                                                                                                                                                                                                                                          |            |                           |                        |

## Duplicate Sample

|                      |           |               |              |
|----------------------|-----------|---------------|--------------|
| Time Zone: CEN       | Time: N/A | Field ID: N/A | (WIN ID_DUP) |
| WIN DMT Activity ID: |           |               |              |

## Blank

|                |                   |               |                       |
|----------------|-------------------|---------------|-----------------------|
| Time Zone:     | Time: N/A         | Field ID: N/A | (Blank Type_DDMMYYYY) |
| DI Source: N/A | Location: N/A     |               |                       |
| DI Type: N/A   | Equipment ID: N/A |               |                       |

LIMS EVENT ID: WIN Import ID:

Enter Field Parameters, Verify Station ID In LIMS DMT: (Initials/Date) QC Station ID, Field Parameters In LIMS DMT: (Initials/Date)

Scan/Save Field Sheets (Initials/Date) Migrate Data to WIN: (Initials/Date) Verify Data In WIN: (Initials/Date)



RQ-2020-09-21-23

Customer: WQAP

Project ID: SMP

Collected By: Heather Schmuki, Nathan Mulkey

Field Report Prepared By: Heather Schmuki

Sampling Agency: FDEP

| Place Label Here                                                                                                                                           |              |                                                                                                                                                                                                                                                          |           |               |      | Comments:                                                                                      |                                                    |                                        |                       |                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------|------|------------------------------------------------------------------------------------------------|----------------------------------------------------|----------------------------------------|-----------------------|----------------|
| WIN ID/Field ID: <br>G3NW0151<br>Location: Eagle Creek Upstream Of Hwy 20 |              |                                                                                                                                                                                                                                                          |           |               |      |                                                                                                |                                                    |                                        |                       |                |
| Matrix: Marine                                                                                                                                             |              |                                                                                                                                                                                                                                                          |           |               |      | (Check one) <input checked="" type="checkbox"/> GRAB <input type="checkbox"/> COMPOSITE        |                                                    |                                        |                       |                |
| Date                                                                                                                                                       | Time         | DO (mg/L)                                                                                                                                                                                                                                                | DO (%SAT) | Temp. (C°)    | pH   | Sample Depth (m)                                                                               | Secchi Disk (m)                                    | Total Depth (m)                        | Sp COND (µmhos/cm)    | Salinity (PPT) |
| 10/21/2020                                                                                                                                                 | 11:17<br>CEN | 1.13                                                                                                                                                                                                                                                     | 17.4      | 23.4          | 5.35 | 0.3                                                                                            | 0.6<br><input checked="" type="checkbox"/> VOB (S) | 0.6                                    | 41.7                  | 0.02           |
| Central Lab please use top row for login purposes                                                                                                          |              |                                                                                                                                                                                                                                                          |           |               |      |                                                                                                |                                                    |                                        |                       |                |
|                                                                                                                                                            | CEN          |                                                                                                                                                                                                                                                          |           |               |      |                                                                                                |                                                    |                                        |                       |                |
| Parameter Suite                                                                                                                                            |              | Parameter Methods                                                                                                                                                                                                                                        |           |               |      | Preservation                                                                                   |                                                    | pH Check                               | # Bottles sent to Lab | Bottle Group   |
| Preserved Nutrients (P-500ML)                                                                                                                              |              | <input checked="" type="checkbox"/> W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP                                                                                                                                                                          |           |               |      | <input checked="" type="checkbox"/> Ice <input checked="" type="checkbox"/> H2SO4*             |                                                    | <input checked="" type="checkbox"/> <2 | 1                     | C              |
|                                                                                                                                                            |              | Lot # Sa93010350                                                                                                                                                                                                                                         |           | Exp: 10/28/20 |      |                                                                                                |                                                    |                                        |                       |                |
| Metals (P-500ML)                                                                                                                                           |              | <input type="checkbox"/> W-ICPMS <input type="checkbox"/> W-ICP <input type="checkbox"/> W-HARD                                                                                                                                                          |           |               |      | <input type="checkbox"/> Ice <input type="checkbox"/> HNO3*                                    |                                                    | <input type="checkbox"/> <2            |                       |                |
|                                                                                                                                                            |              | Lot #                                                                                                                                                                                                                                                    |           | Exp:          |      |                                                                                                |                                                    |                                        |                       |                |
| Filtered Nutrients (P125ML)                                                                                                                                |              | <input checked="" type="checkbox"/> W-PO4-F <input checked="" type="checkbox"/> Field Filtered 0.45 µm Filter                                                                                                                                            |           |               |      | <input checked="" type="checkbox"/> Ice                                                        |                                                    |                                        | 1                     | C              |
|                                                                                                                                                            |              | Filter Lot # 17097890                                                                                                                                                                                                                                    |           |               |      |                                                                                                |                                                    |                                        |                       |                |
|                                                                                                                                                            |              | Syringe Lot # 0079929                                                                                                                                                                                                                                    |           |               |      |                                                                                                |                                                    |                                        |                       |                |
| Chlorophyll (BP-1L)                                                                                                                                        |              | <input checked="" type="checkbox"/> CHLSUITE-W                                                                                                                                                                                                           |           |               |      | <input checked="" type="checkbox"/> Ice                                                        |                                                    |                                        | 1                     | C              |
| Physical/Aggregate (Fresh) (P-1L)                                                                                                                          |              | <input type="checkbox"/> Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS                                                                                                                                                     |           |               |      | <input type="checkbox"/> Ice                                                                   |                                                    |                                        |                       |                |
| Physical/Aggregate (Marine) (P-1L)                                                                                                                         |              | <input checked="" type="checkbox"/> Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY                                                                                                                                                                       |           |               |      | <input checked="" type="checkbox"/> Ice                                                        |                                                    |                                        | 1                     | C              |
| Macroinvertebrates (PJ-2L)                                                                                                                                 |              | <input type="checkbox"/> MI-FW-QLDC                                                                                                                                                                                                                      |           |               |      | <input type="checkbox"/> Formalin                                                              |                                                    |                                        |                       |                |
| Periphyton (PT-50ML)                                                                                                                                       |              | <input type="checkbox"/> ALGAE-ID                                                                                                                                                                                                                        |           |               |      | <input type="checkbox"/> Ice                                                                   |                                                    |                                        |                       |                |
| Microbiology (Contract Lab Bottle)                                                                                                                         |              | <input type="checkbox"/> E Coli <input checked="" type="checkbox"/> F Coli <input checked="" type="checkbox"/> Enterococci<br><input type="checkbox"/> Contract Lab                                                                                      |           |               |      | <input checked="" type="checkbox"/> Ice                                                        |                                                    |                                        | 2                     | 2              |
| Molecular (QPCR-P-500ML)                                                                                                                                   |              | <input type="checkbox"/> PCR-HF183 <input type="checkbox"/> PCR-BacR <input type="checkbox"/> PCR-DG3<br><input type="checkbox"/> PCR-GULL2 <input type="checkbox"/> PCR-GFD <input type="checkbox"/>                                                    |           |               |      | <input type="checkbox"/> Ice                                                                   |                                                    |                                        |                       |                |
| Tracers (BG-500ML)                                                                                                                                         |              | <input type="checkbox"/> W-E8321-DI <input type="checkbox"/> W-E8321-MS                                                                                                                                                                                  |           |               |      | <input type="checkbox"/> Ice                                                                   |                                                    |                                        |                       |                |
| Pesticides (BG-500ML) (BG-1L)                                                                                                                              |              | <input type="checkbox"/> W-E8321-DI <input type="checkbox"/> W-E8321-MS <input type="checkbox"/> W-PSNP-TQ <input type="checkbox"/> W-CT-CL-R<br><input type="checkbox"/> W-PCL-SQ-R <input type="checkbox"/> W-CARB-AA (5 ml of MCAA** Buffer Solution) |           |               |      | <input type="checkbox"/> Ice                                                                   |                                                    |                                        |                       |                |
|                                                                                                                                                            |              |                                                                                                                                                                                                                                                          |           |               |      | <input type="checkbox"/> Ice                                                                   |                                                    |                                        |                       |                |
| Name: Heather Schmuki HS Myranda Clark                                                                                                                     |              |                                                                                                                                                                                                                                                          |           |               |      | Signature:  |                                                    |                                        | Date: 10/21/2020      |                |

\*2.0 ml of Preservative used unless noted otherwise.

\*\*MCAA: Monochloroacetic acid buffer solution





Date of Request: 24-AUG-2020  
 Created By: KING\_M On: 24-AUG-2020  
 Modified By: JASROTIA\_P On: 01-SEP-2020  
 Customer: NW-DIST  
 Project: SMP  
 Division: Division of Environmental Assessment and Restoration  
 District: Northwest District  
 Event Description: Milton Run

**Send Coolers To:**

Phone: 850-595-0605  
 160 Government Center  
 Suite 208  
 Pensacola, FL 32502-5794  
 Attn: Michael King  
 Cooler Ship EMail: michael.king@dep.state.fl.us

Priority: 3  
 Event Status: S  
 Criminal Investigation: NO  
 Chemistry Request Reviewed By: WATTS\_J On: 01-SEP-2020  
 Biology Request Reviewed By: JASROTIA\_P On: 01-SEP-2020  
 Sampling Kit Required: YES Ship on: 11-SEP-2020  
 Sampling Kit Shipped: YES On: 10-SEP-2020  
 Sampling Kit Packed By: REYNOLDS\_T  
 Preservatives Needed: NO  
 Date to Receive Samples: 21-SEP-2020  
 Logged In By:

**Send Final Report To:**

160 Government Center  
 Suite 208  
 Pensacola, FL 32502-5794  
 Attn: Cheryl Bunch  
 Report Notification EMail:  
 michael.king@dep.state.fl.us;cheryl.bunch@dep.state.fl.us

Comments: Group A: (WBID 534) Freshwater Kit With Metals, Tracers, Contract Lab Bacteria  
 Group B: (WBID 420, 468) Freshwater Kit, Contract Lab Bacteria  
 Group C: (WBID 751) Marinewater Kit, Contract Lab Bacteria

**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    | (SM 2120 B-2011) 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: 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                                                                          |
| 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: DEFAULT    | (EPA 8321B) Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS                                                        |
| Bottle Type: P-500ML     | Number of Bottles: 1 | Preserved With: HNO <sub>3</sub>                                                                                                               |
| W-HARD                   | Template: DEFAULT    | (SM 2340B) Hardness by calculation, in aqueous matrices, reported as mg/L CaCO <sub>3</sub>                                                    |
| Hardness                 |                      |                                                                                                                                                |
| W-ICP                    | Template:            | (EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects |

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

Bottle Type: P-500ML      Number of Bottles: 1      Preserved With: HNO3  
 W-ICP      Template:      (EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects

Barium  
 Calcium  
 Iron  
 Magnesium  
 Potassium  
 Sodium  
 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

\*Boron  
 Aluminum  
 Antimony  
 Arsenic  
 Barium  
 Beryllium  
 Cadmium  
 Chromium  
 Cobalt  
 Copper  
 Lead  
 Manganese  
 Molybdenum  
 Nickel  
 Selenium  
 Silver  
 Thallium

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: 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 2 Samples:**

Bottle Type: TEST HAS NO      Number of Bottles: 2      Preserved With: ICE  
 NW-UWF-ECQ      Template: DEFAULT      (SM 9223 B Quanti-Tray) E. coli by Colilert-18/QT by UWF in Pensacola

Bottle Type: P-500ML      Number of Bottles: 2      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: P-125ML      Number of Bottles: 2      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 Type: P-1L      Number of Bottles: 2      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      (SM 2120 B-2011) 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: 2      Preserved With: ICE

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

|                    |                      |                                                                                                              |
|--------------------|----------------------|--------------------------------------------------------------------------------------------------------------|
| Bottle Type: BP-1L | Number of Bottles: 2 | Preserved With: ICE                                                                                          |
| CHLSUITE-W         | Template: DEFAULT    | (SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry |

**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 CaCO <sub>3</sub> /L                             |
| TURBIDITY         | Template: DEFAULT    | (EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices                                                     |
| W-BR-IC           | Template: DEFAULT    | (EPA 300.0 Rev. 2.1) Bromide in aqueous matrices                                                       |
| W-F               | Template: DEFAULT    | (SM 4500 F-C-2011) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring) |
| 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: HNO <sub>3</sub>                                                                                                               |
| W-HARD               | Template: DEFAULT    | (SM 2340B) Hardness by calculation, in aqueous matrices, reported as mg/L CaCO <sub>3</sub>                                                    |
| Hardness             |                      |                                                                                                                                                |
| W-ICP                | Template:            | (EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects |

Barium  
Calcium  
Iron  
Magnesium  
Potassium  
Sodium  
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 |
|---------|-------------------|-----------------------------------------------------------------------------------------------------------------------------|

\*Boron  
Aluminum  
Antimony  
Arsenic  
Barium  
Beryllium  
Cadmium  
Chromium  
Cobalt  
Copper  
Lead  
Manganese  
Molybdenum  
Nickel  
Selenium  
Silver  
Thallium

|                                   |                      |                                                                     |
|-----------------------------------|----------------------|---------------------------------------------------------------------|
| 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          |
| W-NO <sub>2</sub> NO <sub>3</sub> | 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-PO <sub>4</sub> -F | Template: DEFAULT    | (EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L |

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

