

# Login Checklist

RQ- **2021 - 11 - 22 - 07**

Login Station ID: **# 3**

Shipping Method: FedEx | UPS | HD | Greyhound

Date/Time of Receipt: **11/23/2021 / 09:48**

| *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 |                    |
| 2.8c                |                 |                                        |          | 14                                    |               | X  |          |    | 5225 5541 6877     |
|                     |                 |                                        |          |                                       |               |    |          |    |                    |
|                     |                 |                                        |          |                                       |               |    |          |    |                    |
|                     |                 |                                        |          |                                       |               |    |          |    |                    |
|                     |                 |                                        |          |                                       |               |    |          |    |                    |

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

Chain of Custody/ Field Sheet(s) Included?

Yes **X** No \_\_\_\_\_

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

Yes \_\_\_\_\_ No **X**

## 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 \_\_\_\_\_ 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: **11/23/2021**

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

Event ID:

**NE - DIST - 2021 - 11 - 23 - 02**

## Login Checklist

### Login Preservation Equipment

### Lot # & Exp: Date

### Additional Comments:

|                          |                               |
|--------------------------|-------------------------------|
| Infrared Thermometer ID: | IRTG #3 EXP:10/19/2022        |
| pH Test Strips 0 – 6     | LOT # 223819AV EXP:08/30/2023 |
| pH Paper 0 – 3           | N/A                           |
| pH Paper 0 – 13          | LOT 207621 EXP:03/15/2024     |
| Chlorine Test Strips     | 0261 2023/05                  |

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

### **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

|                                                                                    |                                                                                                                   |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Date:</b> 11/22/2021<br><b>Customer:</b> NE-DIST<br><b>RQ:</b> RQ-2021-11-22-07 | <b>Collected By:</b> Kimberly Appleby, Katrin Villinger<br><b>Sampling Agency:</b> FDEP<br><b>Project ID:</b> 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                                                                                  |
|---------------------------------|--------------------------------------------------------------------------------------------------|
| LITTLE ST. MARYS @ CR 121A      | <br>19010046   |
| MILLS CREEK AT US 301/US1       | <br>19020048   |
| CUSHING CR @ US 1               | <br>NE400001 |
| Cushing Creek at Lem Turner Rd. | <br>G4NE0306 |

RELINQUISHED BY(SIGNATURE):



DATE/TIME: 11/22/2021  
1600EST

**THIS SECTION TO BE COMPLETED BY LABORATORY**

**Rec'd/Inspected By: A.SHAIK**

**Rec'd/Inspected Date: 11/23/2021**

# CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

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

Meter ID: Desi

RQ: 2021-11-22-07

Project: SNP Callahan Nassau

- Notes: (1) Always wait for meter to stabilize before recording any readings. North Makeup  
 (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 11/10/21

| 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>/ Fail | Lab<br>/ Field |
|--------------------------|-----------------|----------|---------------|------------|------------------------|-----------------------|-----------------------|-------|-----------------|---------------|----------------|----------------|
| Calibr.                  | Katrin Villings | 11/22/21 | 830           | 23.0       | 760.3                  | 8.3                   | —                     | 100.0 | —               | 1.0664        | P/F            | L/F            |
| ICV                      | ↓               | ↓        | 835           | 23.2       | 760.3                  | 8.5                   | 8.56                  | 100.2 | —               | 1.0664        | P/F            | L/F            |
| CCV                      | ↓               | ↓        | 1640          | 23.0       | 757.6                  | 8.6                   | 8.57                  | 99.8  | —               | 1.0664        | P/F            | L/F            |
| CCV                      |                 |          |               |            |                        |                       |                       |       |                 |               | P/F            | L/F            |

DO Acceptance criteria from Table  $\pm 0.3$  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>$\mu$ mhos/cm | Meter<br>Reading<br>$\mu$ mhos/cm | Pass<br>/ Fail | Lab<br>/ Field |
|---------------------------|-----------------|----------|---------------|---------|----------------|---------------------------|-----------------------------------|----------------|----------------|
| Calibr.                   | Katrin Villings | 11/22/21 | 840           | 210917B | 9/22           | 1000                      | 1000                              | P/F            | L/F            |
| ICV                       | ↓               | ↓        | 845           | 210426A | 5/22           | 100                       | 101.2                             | P/F            | L/F            |
| CCV                       | ↓               | ↓        | 1645          | 210917B | 9/22           | 1000                      | 998                               | P/F            | L/F            |
| CCV                       |                 |          |               |         |                |                           |                                   | P/F            | L/F            |

Conductivity Acceptance criteria  $\pm 5\%$

| pH<br>DEP SOP<br>FT 1100 | Name            | Date     | Time<br>CT-ET | Lot #    | Expir.<br>Date | pH<br>Buffer<br>SU | Temp<br>°C | Meter<br>reading<br>SU | mV     | Pass<br>/ Fail | Lab<br>/ Field |
|--------------------------|-----------------|----------|---------------|----------|----------------|--------------------|------------|------------------------|--------|----------------|----------------|
| Calibr.                  | Katrin Villings | 11/22/21 | 850           | 2109M25  | 9/23           | 7.01               | 22.9       | 7.01                   | -24.6  | P/F            | L/F            |
| Calibr.                  | ↓               | ↓        | 855           | 2107640  | 7/23           | 4.00               | 23.1       | 4.00                   | 154.3  | P/F            | L/F            |
| Calibr.                  | ↓               | ↓        | 900           | 21012E08 | 6/22           | 10.02              | 23.0       | 10.02                  | -193.3 | P/F            | L/F            |
| ICV                      | ↓               | ↓        | 905           | 2109M25  | 9/23           | 7.01               | 22.9       | 7.01                   | -23.2  | P/F            | L/F            |
| CCV                      | ↓               | ↓        | 1650          | 2107640  | 7/23           | 4.00               | 23.7       | 4.05                   | 151.9  | P/F            | L/F            |
| CCV                      |                 |          |               |          |                |                    |            | 4.03K                  |        | P/F            | L/F            |

pH Acceptance criteria  $\pm 0.2$  SU; mV pH 7 Range  $0 \pm 50$ ; mV pH 4 Range  $+180 \pm 50$ ; mV pH 10 Range  $-180 \pm 50$ ;

If mV are recorded: slope from 7 to 10 168.7, slope from 4 to 7 178.9 (both must be between 165 and 180 mV)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification: 11/10/21

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: \_\_\_\_\_; 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                         | Katrin Villings | 11/22/21 | 910           | 0.00                                            | 0.00                 | P/F            | L/F            |

Report two decimal places. Round numbers  $\leq 4$  down,  $\geq 5$  up. ICV acceptance criteria  $\pm 5\%$  or  $\pm 0.05$ m, whichever is greater.

COMMENTS:



RQ-2021-11-22-07

Customer: WQAP

Project ID: SMP

Collected By: Kimberly Appleby, Katrin Villinger

Field Report Prepared By: Kimberly Appleby

Sampling Agency: EDEP

| Place Label Here                                                                                               |          |                                                                                                                                  |           |                                            |      | Comments:                                                                                       |                                                      |                                        |                       |                              |
|----------------------------------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------|------|-------------------------------------------------------------------------------------------------|------------------------------------------------------|----------------------------------------|-----------------------|------------------------------|
| WIN ID/Field ID: <br>19010046 |          |                                                                                                                                  |           |                                            |      |                                                                                                 |                                                      |                                        |                       |                              |
| Location: LITTLE ST. MARYS @ CR 121A                                                                           |          |                                                                                                                                  |           |                                            |      |                                                                                                 |                                                      |                                        |                       |                              |
| Matrix: Fresh                                                                                                  |          |                                                                                                                                  |           |                                            |      | (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)               |
| 11/22/2021                                                                                                     | 1050 EST | 5.69                                                                                                                             | 57.7      | 16.1                                       | 6.19 | 0.1                                                                                             | 0.209<br><input checked="" type="checkbox"/> VOB (S) | 0.209                                  | 113.4                 | 0.05                         |
|                                                                                                                |          |                                                                                                                                  |           |                                            |      |                                                                                                 |                                                      |                                        |                       |                              |
|                                                                                                                | EST      |                                                                                                                                  |           |                                            |      |                                                                                                 |                                                      |                                        |                       |                              |
| 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                     | Group A                      |
|                                                                                                                |          | Lot # SA1105060                                                                                                                  |           | Exp: 04/30/22                              |      |                                                                                                 |                                                      |                                        |                       |                              |
| Metals (P-500ML)                                                                                               |          | <input checked="" type="checkbox"/> W-ICPMS <input checked="" type="checkbox"/> W-ICP <input checked="" type="checkbox"/> W-HARD |           |                                            |      | <input checked="" type="checkbox"/> Ice <input checked="" type="checkbox"/> HNO3*               |                                                      | <input checked="" type="checkbox"/> <2 | 1                     | Group A                      |
|                                                                                                                |          | Lot # NA110100                                                                                                                   |           | Exp: 06/07/22                              |      |                                                                                                 |                                                      |                                        |                       |                              |
| 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                     | Group A                      |
|                                                                                                                |          | Filter Lot # R1EB01329                                                                                                           |           |                                            |      |                                                                                                 |                                                      |                                        |                       |                              |
|                                                                                                                |          | Syringe Lot #                                                                                                                    |           |                                            |      |                                                                                                 |                                                      |                                        |                       |                              |
| Chlorophyll (BP-1L)                                                                                            |          | <input checked="" type="checkbox"/> CHLSUITE-W                                                                                   |           |                                            |      | <input checked="" type="checkbox"/> Ice                                                         |                                                      |                                        | 1                     | Group A                      |
| Physical/Aggregate (Fresh) (P-1L)                                                                              |          | <input checked="" type="checkbox"/> Alkalinity / W-F / W-TSS / TURBIDITY / W-CHC / W-COLOR / W-SO4-IC / W-TDS                    |           |                                            |      | <input checked="" type="checkbox"/> Ice                                                         |                                                      |                                        | 1                     | Group A                      |
| Physical/Aggregate (Marine) (P-1L)                                                                             |          | <input type="checkbox"/> Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY                                                          |           |                                            |      | <input type="checkbox"/> Ice                                                                    |                                                      |                                        |                       |                              |
| Macroinvertebrates (PJ-2L)                                                                                     |          | <input type="checkbox"/> MI-FW-QLDC                                                                                              |           | Formalin Lot #                             |      | <input type="checkbox"/> Formalin                                                               |                                                      |                                        |                       |                              |
| Periphyton (PT-50ML)                                                                                           |          | <input type="checkbox"/> ALGAE-ID                                                                                                |           |                                            |      | <input type="checkbox"/> Ice                                                                    |                                                      |                                        |                       |                              |
| Microbiology (Contract Lab Bottle)                                                                             |          | <input checked="" type="checkbox"/> E Coli <input type="checkbox"/> F Coli <input type="checkbox"/> Enterococci                  |           |                                            |      | <input checked="" type="checkbox"/> Ice                                                         |                                                      |                                        | 1                     | Group A                      |
|                                                                                                                |          | <input type="checkbox"/> Contract Lab                                                                                            |           |                                            |      |                                                                                                 |                                                      |                                        |                       |                              |
| Molecular (QPCR-P-500ML)                                                                                       |          | <input type="checkbox"/> PCR-HF183 <input type="checkbox"/> PCR-BacR <input type="checkbox"/> PCR-DG3                            |           |                                            |      | <input type="checkbox"/> Ice                                                                    |                                                      |                                        |                       |                              |
|                                                                                                                |          | <input type="checkbox"/> PCR-GULL2 <input type="checkbox"/> PCR-GFD <input type="checkbox"/>                                     |           |                                            |      |                                                                                                 |                                                      |                                        |                       |                              |
| Tracers (BG-500ML)                                                                                             |          | <input type="checkbox"/> W-E8321-DI <input type="checkbox"/> W-E8321-MS                                                          |           |                                            |      | <input type="checkbox"/> Ice                                                                    |                                                      |                                        |                       |                              |
| Pesticides (BG-500ML) (BG-1L)                                                                                  |          | W-E8321-DI                                                                                                                       |           | W-E8321-MS                                 |      | W-PSNP-TQ                                                                                       |                                                      | W-CT-CL-R                              |                       | <input type="checkbox"/> Ice |
|                                                                                                                |          | W-PCL-TQ-R                                                                                                                       |           | W-CARB-AA (5 ml of MCAA** Buffer Solution) |      |                                                                                                 |                                                      |                                        |                       |                              |
| Phytoplankton/Periphyton                                                                                       |          |                                                                                                                                  |           | DTY-QN-C                                   |      | PKD-QN-BV                                                                                       |                                                      |                                        |                       | <input type="checkbox"/> Ice |
| Name: Kimberly Appleby<br>Katrin Villinger                                                                     |          |                                                                                                                                  |           |                                            |      | Signature:  |                                                      |                                        | Date: 11/22/2021      |                              |

\*2.0 ml of Preservative used unless noted otherwise.

\*\*MCAA: Monochloroacetic acid buffer solution



# FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PLAN FIELD SHEET

January 2020

Meter Passed End  
of Day CCV  
Yes / No

WIN Station Name: LITTLE ST. MARYS @ CR 121A

Date: 11/22/2021

WIN/Field ID: 19010046

WBID: 2106

ENR: -

Latitude: 30.7029

County: NASSAU

Org ID: 21FLA

Longitude: -81.81

Receiving Body of Water: Nassau - St. Marys

RQ- 2021-11-22-07

| Sampling Team Members               |                  | WQ Measurements | Sample Collection                   | Documentation                       | Preservation                        | Preservation Check                  |
|-------------------------------------|------------------|-----------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| <input checked="" type="checkbox"/> | Kimberly Appleby |                 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | Katrin Villinger |                 | <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 type="checkbox"/> Syringe                     | <input checked="" type="checkbox"/> Pole |
| Depth measured with: Meter                           |                                          |
| 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# DESI |                       |
| Photos: NO                                                                                                                                                                                                                                                      | Flow: FLOW | Tide:          | 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:<br>SAMPLE TAKEN UPSTREAM OF BRIDGE AND RETENTION AREA AROUND BRIDGE.                                                                                                                                                                                     |            |                |                       |

## Duplicate Sample

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

## Blank

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

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-2021-11-22-07

Customer: WQAP

Project ID: SMP

Collected By: Kimberly Appleby, Katrin Villinger

Field Report Prepared By: Kimberly Appleby

Sampling Agency: FDEP

| Place Label Here                                                                                               |             |                                                                                                                                  |           |                                            |                                                                                                 | Comments:                                                                               |                                                      |                                        |                       |                 |  |
|----------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------|----------------------------------------|-----------------------|-----------------|--|
| WIN ID/Field ID: <br>19020048 |             |                                                                                                                                  |           |                                            |                                                                                                 |                                                                                         |                                                      |                                        |                       |                 |  |
| Location: MILLS CREEK AT US 301/US1                                                                            |             |                                                                                                                                  |           |                                            |                                                                                                 |                                                                                         |                                                      |                                        |                       |                 |  |
| Matrix: Fresh                                                                                                  |             |                                                                                                                                  |           |                                            |                                                                                                 | (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 (PPTH) |  |
| 11/22/2021                                                                                                     | 1210<br>EST | 4.63                                                                                                                             | 48.2      | 17.1                                       | 5.38                                                                                            | 0.09                                                                                    | 0.175<br><input checked="" type="checkbox"/> VOB (S) | 0.175                                  | 71.9                  | 0.03            |  |
|                                                                                                                |             |                                                                                                                                  |           |                                            |                                                                                                 |                                                                                         |                                                      |                                        |                       |                 |  |
|                                                                                                                | EST         |                                                                                                                                  |           |                                            |                                                                                                 |                                                                                         |                                                      |                                        |                       |                 |  |
| Parameter Suite                                                                                                |             | Parameter Methods                                                                                                                |           |                                            |                                                                                                 | Preservation                                                                            |                                                      | pH Check                               | # Bottles sent to Lab | Bottle Group    |  |
| Preserved Nutrients (P-500ML)                                                                                  |             | <input type="checkbox"/> W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP                                                             |           |                                            |                                                                                                 | <input type="checkbox"/> Ice <input type="checkbox"/> H2SO4*                            |                                                      | <input type="checkbox"/> <2            |                       |                 |  |
|                                                                                                                |             | Lot #                                                                                                                            |           | Exp:                                       |                                                                                                 |                                                                                         |                                                      |                                        |                       |                 |  |
| Metals (P-500ML)                                                                                               |             | <input checked="" type="checkbox"/> W-ICPMS <input checked="" type="checkbox"/> W-ICP <input checked="" type="checkbox"/> W-HARD |           |                                            |                                                                                                 | <input checked="" type="checkbox"/> Ice <input checked="" type="checkbox"/> HNO3*       |                                                      | <input checked="" type="checkbox"/> <2 | 1                     | B               |  |
|                                                                                                                |             | Lot #                                                                                                                            |           | Exp:                                       |                                                                                                 | 6/7/2022                                                                                |                                                      |                                        |                       |                 |  |
| Filtered Nutrients (P125ML)                                                                                    |             | <input type="checkbox"/> W-PO4-F <input type="checkbox"/> Field Filtered 0.45 µm Filter                                          |           |                                            |                                                                                                 | <input type="checkbox"/> Ice                                                            |                                                      |                                        |                       |                 |  |
|                                                                                                                |             | Filter Lot #                                                                                                                     |           |                                            |                                                                                                 |                                                                                         |                                                      |                                        |                       |                 |  |
|                                                                                                                |             | Syringe Lot #                                                                                                                    |           |                                            |                                                                                                 |                                                                                         |                                                      |                                        |                       |                 |  |
| Chlorophyll (BP-1L)                                                                                            |             | <input type="checkbox"/> CHLSUITE-W                                                                                              |           |                                            |                                                                                                 | <input type="checkbox"/> Ice                                                            |                                                      |                                        |                       |                 |  |
| Physical/Aggregate (Fresh) (P-1L)                                                                              |             | <input type="checkbox"/> Alkalinity / W-F / W-TSS / TURBIDITY / W-CH-IC / W-COLOR / W-SO4-IC / W-TDS                             |           |                                            |                                                                                                 | <input type="checkbox"/> Ice                                                            |                                                      |                                        |                       |                 |  |
| Physical/Aggregate (Marine) (P-1L)                                                                             |             | <input type="checkbox"/> Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY                                                          |           |                                            |                                                                                                 | <input type="checkbox"/> Ice                                                            |                                                      |                                        |                       |                 |  |
| Macroinvertebrates (PJ-2L)                                                                                     |             | <input type="checkbox"/> MI-FW-QLDC                                                                                              |           | Formalin Lot #                             |                                                                                                 | <input type="checkbox"/> Formalin                                                       |                                                      |                                        |                       |                 |  |
| Periphyton (PT-50ML)                                                                                           |             | <input type="checkbox"/> ALGAE-ID                                                                                                |           |                                            |                                                                                                 | <input type="checkbox"/> Ice                                                            |                                                      |                                        |                       |                 |  |
| Microbiology (Contract Lab Bottle)                                                                             |             | <input checked="" type="checkbox"/> E Coli <input type="checkbox"/> F Coli <input type="checkbox"/> Enterococci                  |           |                                            |                                                                                                 | <input checked="" type="checkbox"/> Ice                                                 |                                                      |                                        | 1                     | B               |  |
|                                                                                                                |             | <input type="checkbox"/> Contract Lab                                                                                            |           |                                            |                                                                                                 |                                                                                         |                                                      |                                        |                       |                 |  |
| Molecular (QPCR-P-500ML)                                                                                       |             | <input type="checkbox"/> PCR-HF183 <input type="checkbox"/> PCR-BacR <input type="checkbox"/> PCR-DG3                            |           |                                            |                                                                                                 | <input type="checkbox"/> Ice                                                            |                                                      |                                        |                       |                 |  |
|                                                                                                                |             | <input type="checkbox"/> PCR-GULL2 <input type="checkbox"/> PCR-GFD <input type="checkbox"/>                                     |           |                                            |                                                                                                 |                                                                                         |                                                      |                                        |                       |                 |  |
| Tracers (BG-500ML)                                                                                             |             | <input type="checkbox"/> W-E8321-DI <input type="checkbox"/> W-E8321-MS                                                          |           |                                            |                                                                                                 | <input type="checkbox"/> Ice                                                            |                                                      |                                        |                       |                 |  |
| Pesticides (BG-500ML) (BG-1L)                                                                                  |             | W-E8321-DI                                                                                                                       |           | W-E8321-MS                                 |                                                                                                 | W-PSNP-TQ                                                                               |                                                      | W-CT-CL-R                              |                       |                 |  |
|                                                                                                                |             | W-PCL-TQ-R                                                                                                                       |           | W-CARB-AA (5 ml of MCAA** Buffer Solution) |                                                                                                 |                                                                                         |                                                      |                                        |                       |                 |  |
| Phytoplankton/Periphyton                                                                                       |             |                                                                                                                                  |           |                                            |                                                                                                 | DTY-QN-C                                                                                |                                                      |                                        |                       |                 |  |
|                                                                                                                |             |                                                                                                                                  |           |                                            |                                                                                                 | PKD-QN-BV                                                                               |                                                      |                                        |                       |                 |  |
|                                                                                                                |             |                                                                                                                                  |           |                                            |                                                                                                 | <input type="checkbox"/> Ice                                                            |                                                      |                                        |                       |                 |  |
| Name: Kimberly Appleby<br>Katrin Villinger                                                                     |             |                                                                                                                                  |           |                                            | Signature:  |                                                                                         |                                                      |                                        |                       | Date: 11/22/21  |  |

\*2.0 ml of Preservative used unless noted otherwise.

\*\*MCAA: Monochloroacetic acid buffer solution



# FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PLAN FIELD SHEET

January 2020

Meter Passed End  
of Day CCV  
Yes / No

WIN Station Name: MILLS CREEK AT US 301/US1

Date: 11/22/2021

WIN/Field ID: 19020048

WBID: 2120B

ENR: -

Latitude: 30.6389

County: NASSAU

Org ID: 21FLA

Longitude: -81.86

Receiving Body of Water: Nassau - St. Marys

RQ- 2021-11-22-07

| Sampling Team Members               |                  | WQ Measurements | Sample Collection | Documentation | Preservation | Preservation Check |
|-------------------------------------|------------------|-----------------|-------------------|---------------|--------------|--------------------|
| <input checked="" type="checkbox"/> | Kimberly Appleby |                 | x                 |               | x            | x                  |
| <input checked="" type="checkbox"/> | Katrin Villinger |                 | x                 | x             |              |                    |
| <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 type="checkbox"/> Syringe                     | <input checked="" type="checkbox"/> Pole |
| Depth measured with: Meter                           |                                          |
| 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# DESI |                       |
| Photos: NO                                                                                                                                                                                                                                                      | Flow: FLOW | Tide:          | 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:<br>PARTLY CLOUDY                                                                                                                                                                                                                                         |            |                |                       |

## Duplicate Sample

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

## Blank

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

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)

**\*\*MCAA: Monochloroacetic acid buffer solution**



# FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PLAN FIELD SHEET

January 2020

Meter Passed End  
of Day CCV  
Yes / No

WIN Station Name: CUSHING CR @ US 1

Date: 11/22/2021

WIN/Field ID: NE400001

WBID: 2162

ENR: -

Latitude: 30.5412

County: NASSAU

Org ID: 21FLA

Longitude: -81.81

Receiving Body of Water: Nassau - St. Marys

RQ- 2021-11-22-07

| Sampling Team Members               |                  | WQ Measurements                     | Sample Collection                   | Documentation                       | Preservation                        | Preservation Check                  |
|-------------------------------------|------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| <input checked="" type="checkbox"/> | Kimberly Appleby | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | Katrin Villinger | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input type="checkbox"/>            |                  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            |
| <input type="checkbox"/>            |                  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input 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 type="checkbox"/> Syringe                     | <input checked="" type="checkbox"/> Pole |
| Depth measured with: Meter                           |                                          |
| Secchi Equipment ID:                                 |                                          |
| Collection Method                                    |                                          |
| <input type="checkbox"/> Wading                      | <input type="checkbox"/> Canoe/Kayak     |
| <input checked="" 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# DESI |                        |
| Photos: No                                                                                                                                                                                                                                                      | Flow: FLOW | Tide:          | 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:<br>LOW FLOW, LOT OF ORGANIC MATERIAL ON SURFACE, O MATERIAL BUNCHING/ POOLING UNDER BRIDGE WHERE FLOW RESTRICTS                                                                                                                                          |            |                |                        |

## Duplicate Sample

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

## Blank

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

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-2021-11-22-07

Customer: WQAP

Project ID: SMP

Collected By: Kimberly Appleby, Katrin Villinger

Field Report Prepared By: Kimberly Appleby

Sampling Agency: FDEP

| Place Label Here                                                                                   |          |                                                                                                                 |           |                                            |                                    | Comments:                                                                               |                                          |                                        |                       |                              |  |
|----------------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------|------------------------------------|-----------------------------------------------------------------------------------------|------------------------------------------|----------------------------------------|-----------------------|------------------------------|--|
| WIN ID/Field ID:  |          |                                                                                                                 |           |                                            |                                    |                                                                                         |                                          |                                        |                       |                              |  |
| Location: Cushing Creek at Lem Turner Rd.                                                          |          |                                                                                                                 |           |                                            |                                    |                                                                                         |                                          |                                        |                       |                              |  |
| Matrix: Fresh                                                                                      |          |                                                                                                                 |           |                                            |                                    | (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)               |  |
| 11/22/2021                                                                                         | 1345 EST | 0.93                                                                                                            | 9.4       | 15.9                                       | 6.7                                | 0.3                                                                                     | 0.65<br><input type="checkbox"/> VOB (S) | 1.056                                  | 255                   | 0.12                         |  |
|                                                                                                    |          |                                                                                                                 |           |                                            |                                    |                                                                                         |                                          |                                        |                       |                              |  |
|                                                                                                    | EST      |                                                                                                                 |           |                                            |                                    |                                                                                         |                                          |                                        |                       |                              |  |
| 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 # SA1105060                                                                                                 |           | Exp: 4/30/2022                             |                                    |                                                                                         |                                          |                                        |                       |                              |  |
| 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 # R1EB01329                                                                                          |           |                                            |                                    |                                                                                         |                                          |                                        |                       |                              |  |
|                                                                                                    |          | Syringe Lot #                                                                                                   |           |                                            |                                    |                                                                                         |                                          |                                        |                       |                              |  |
| Chlorophyll (BP-1L)                                                                                |          | <input checked="" type="checkbox"/> CHLSUITE-W                                                                  |           |                                            |                                    | <input checked="" type="checkbox"/> Ice                                                 |                                          |                                        | 1                     | C                            |  |
| Physical/Aggregate (Fresh) (P-1L)                                                                  |          | <input checked="" type="checkbox"/> Alkalinity / W-F / W-TSS / TURBIDITY / W-CH-IC / W-COLOR / W-SO4-IC / W-TDS |           |                                            |                                    | <input checked="" type="checkbox"/> Ice                                                 |                                          |                                        | 1                     | C                            |  |
| Physical/Aggregate (Marine) (P-1L)                                                                 |          | <input type="checkbox"/> Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY                                         |           |                                            |                                    | <input type="checkbox"/> Ice                                                            |                                          |                                        |                       |                              |  |
| Macroinvertebrates (PJ-2L)                                                                         |          | <input type="checkbox"/> MI-FW-QLDC                                                                             |           | Formalin Lot #                             |                                    | <input type="checkbox"/> Formalin                                                       |                                          |                                        |                       |                              |  |
| Periphyton (PT-50ML)                                                                               |          | <input type="checkbox"/> ALGAE-ID                                                                               |           |                                            |                                    | <input type="checkbox"/> Ice                                                            |                                          |                                        |                       |                              |  |
| Microbiology (Contract Lab Bottle)                                                                 |          | <input checked="" type="checkbox"/> E Coli <input type="checkbox"/> F Coli <input type="checkbox"/> Enterococci |           |                                            |                                    | <input checked="" type="checkbox"/> Ice                                                 |                                          |                                        | 1                     | C                            |  |
|                                                                                                    |          | <input type="checkbox"/> Contract Lab                                                                           |           |                                            |                                    |                                                                                         |                                          |                                        |                       |                              |  |
| Molecular (QPCR-P-500ML)                                                                           |          | <input type="checkbox"/> PCR-HF183 <input type="checkbox"/> PCR-BacR <input type="checkbox"/> PCR-DG3           |           |                                            |                                    | <input type="checkbox"/> Ice                                                            |                                          |                                        |                       |                              |  |
|                                                                                                    |          | <input type="checkbox"/> PCR-GULL2 <input type="checkbox"/> PCR-GFD <input type="checkbox"/>                    |           |                                            |                                    |                                                                                         |                                          |                                        |                       |                              |  |
| Tracers (BG-500ML)                                                                                 |          | <input type="checkbox"/> W-E8321-DI <input type="checkbox"/> W-E8321-MS                                         |           |                                            |                                    | <input type="checkbox"/> Ice                                                            |                                          |                                        |                       |                              |  |
| Pesticides (BG-500ML) (BG-1L)                                                                      |          | W-E8321-DI                                                                                                      |           | WE8321-MS                                  |                                    | W-PSNP-TQ                                                                               |                                          | W-CT-CL-R                              |                       | <input type="checkbox"/> Ice |  |
|                                                                                                    |          | W-PCL-TQ-R                                                                                                      |           | W-CARB-AA (5 ml of MCAA** Buffer Solution) |                                    |                                                                                         |                                          |                                        |                       |                              |  |
| Phytoplankton/Periphyton                                                                           |          |                                                                                                                 |           | DTY-QN-C                                   |                                    |                                                                                         |                                          |                                        |                       | <input type="checkbox"/> Ice |  |
|                                                                                                    |          |                                                                                                                 |           | PKD-QN-BV                                  |                                    |                                                                                         |                                          |                                        |                       |                              |  |
| Name: Kimberly Appleby<br>Katrin Villinger                                                         |          |                                                                                                                 |           |                                            | Signature: <i>Kimberly Appleby</i> |                                                                                         |                                          |                                        |                       | Date: 11/22/21               |  |

\*2.0 ml of Preservative used unless noted otherwise.

\*\*MCAA: Monochloroacetic acid buffer solution



# FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PLAN FIELD SHEET

January 2020

Meter Passed End  
of Day CCV  
Yes / No

WIN Station Name: Cushing Creek at Lem Turner Rd.

Date: 11/22/2021

WIN/Field ID: G4NE0306

WBID: 2162

ENR: -

Latitude: 30.56

County: NASSAU

Org ID: 21FLA

Longitude: -81.82

Receiving Body of Water: Nassau - St. Marys

RQ- 2021-11-22-07

| Sampling Team Members               |                  | WQ Measurements                     | Sample Collection                   | Documentation                       | Preservation                        | Preservation Check                  |
|-------------------------------------|------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| <input checked="" type="checkbox"/> | Kimberly Appleby | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                                     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| <input checked="" type="checkbox"/> | Katrin Villinger | <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 type="checkbox"/> Syringe                     | <input checked="" type="checkbox"/> Pole |
| Depth measured with: Meter                           |                                          |
| Secchi Equipment ID:                                 |                                          |
| Collection Method                                    |                                          |
| <input type="checkbox"/> Wading                      | <input type="checkbox"/> Canoe/Kayak     |
| <input checked="" 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# DESI |                        |
| Photos: No                                                                                                                                                                                                                                                      | Flow: FLOW | Tide:          | 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:<br>VERY LOW FLOW                                                                                                                                                                                                                                         |            |                |                        |

## Duplicate Sample

|                      |       |           |              |
|----------------------|-------|-----------|--------------|
| Time Zone: EST       | Time: | Field ID: | (WIN ID_DUP) |
| WIN DMT Activity ID: |       |           |              |

## Blank

|                         |                    |           |                       |
|-------------------------|--------------------|-----------|-----------------------|
| Time Zone:              | Time:              | Field ID: | (Blank Type_DDDMMYYY) |
| DI Source:              | Location:          |           |                       |
| DI Type:                | Equipment ID:      |           |                       |
| DI Container (Name/ID): | DI Container Type: |           |                       |

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)

Date of Request: 18-OCT-2021  
 Created By: PARRISH\_J On: 18-OCT-2021  
 Modified By: AYRES\_J On: 23-NOV-2021  
 Customer: NE-DIST  
 Project: SMP  
 Division: Division of Environmental Assessment and Restoration  
 District: Northeast District  
 Event Description: Callahan Nassau North

**Send Coolers To:**

Phone: 904-256-1700  
 8800 Baymeadows Way West  
 Suite 100  
 Jacksonville, FL 32256  
 Attn: Jeremy Parrish  
 Cooler Ship EMail: Jeremy.M.Parrish@dep.state.fl.us

Priority: 3  
 Event Status: R  
 Criminal Investigation: NO  
 Chemistry Request Reviewed By: AYRES\_J On: 23-NOV-2021  
 Biology Request Reviewed By: AYRES\_J On: 23-NOV-2021  
 Sampling Kit Required: NO Ship on:  
 Sampling Kit Shipped: YES On: 10-NOV-2021  
 Sampling Kit Packed By: SHAIK\_A  
 Preservatives Needed: NO  
 Date to Receive Samples: 22-NOV-2021  
 Logged In By: SHAIK\_A On: 23-NOV-2021

**Send Final Report To:**

8800 Baymeadows Way West  
 Suite 100  
 Jacksonville, FL 32256  
 Attn: Jeremy Parrish  
 Report Notification EMail: Jeremy.M.Parrish@dep.state.fl.us

Comments: Group A: (Surf-Salt) Nutrients, Bacteria  
 Group B:(Surf-Fresh Metals, Bacteria  
 Group C:(Surf.Fresh)Nutrients,Bacteria  
 Group D:(Surf.Fresh)Bacteria

Packing Notes:  
 None

**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: P-250ML-WO-THI | Number of Bottles: 1 | Preserved With: ICE                                                                                                                            |
| ECOLI-18QT                  | Template: DEFAULT    | (SM 9223 B Quanti-Tray) Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems                                     |
| 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: 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                        |                      |                                                                                                                                                |

**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 |
| Magnesium            |                      |                                                                                                                                                |
| Potassium            |                      |                                                                                                                                                |
| Sodium               |                      |                                                                                                                                                |
| Strontium            |                      |                                                                                                                                                |
| Tin                  |                      |                                                                                                                                                |
| Titanium             |                      |                                                                                                                                                |
| Vanadium             |                      |                                                                                                                                                |
| Zinc                 |                      |                                                                                                                                                |
| W-ICPMS              | Template: DEFAULT    | (EPA 200.8 Rev. 5.4) Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects                    |
| *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 1 Samples:**

|                             |                      |                                                                                                                                                |
|-----------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-250ML-WO-THI | Number of Bottles: 1 | Preserved With: ICE                                                                                                                            |
| ECOLI-18QT                  | Template: DEFAULT    | (SM 9223 B Quanti-Tray) Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems                                     |
| Bottle Type: P-500ML        | Number of Bottles: 1 | Preserved With: HNO3                                                                                                                           |
| W-HARD                      | Template: DEFAULT    | (SM 2340B) Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3                                                                |
| Hardness                    |                      |                                                                                                                                                |
| W-ICP                       | Template: SMP-FRESH  | (EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects |
| Calcium                     |                      |                                                                                                                                                |
| Iron                        |                      |                                                                                                                                                |
| Magnesium                   |                      |                                                                                                                                                |
| Potassium                   |                      |                                                                                                                                                |
| Sodium                      |                      |                                                                                                                                                |
| Strontium                   |                      |                                                                                                                                                |
| Tin                         |                      |                                                                                                                                                |
| Titanium                    |                      |                                                                                                                                                |
| Vanadium                    |                      |                                                                                                                                                |
| Zinc                        |                      |                                                                                                                                                |
| W-ICPMS                     | Template: DEFAULT    | (EPA 200.8 Rev. 5.4) Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects                    |
| *Boron                      |                      |                                                                                                                                                |
| Aluminum                    |                      |                                                                                                                                                |

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

|                      |                      |                                                                                                                             |
|----------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-500ML | Number of Bottles: 1 | Preserved With: HNO3                                                                                                        |
| 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 |
| Antimony             |                      |                                                                                                                             |
| Arsenic              |                      |                                                                                                                             |
| Barium               |                      |                                                                                                                             |
| Beryllium            |                      |                                                                                                                             |
| Cadmium              |                      |                                                                                                                             |
| Chromium             |                      |                                                                                                                             |
| Cobalt               |                      |                                                                                                                             |
| Copper               |                      |                                                                                                                             |
| Lead                 |                      |                                                                                                                             |
| Manganese            |                      |                                                                                                                             |
| Molybdenum           |                      |                                                                                                                             |
| Nickel               |                      |                                                                                                                             |
| Selenium             |                      |                                                                                                                             |
| Silver               |                      |                                                                                                                             |
| Thallium             |                      |                                                                                                                             |

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

|                             |                      |                                                                                                              |
|-----------------------------|----------------------|--------------------------------------------------------------------------------------------------------------|
| 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-250ML-WO-THI | Number of Bottles: 1 | Preserved With: ICE                                                                                          |
| ECOLI-18QT                  | Template: DEFAULT    | (SM 9223 B Quanti-Tray) Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems   |
| 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 Type: P-1L           | Number of Bottles: 1 | Preserved With: ICE                                                                                          |
| ALKALINITY                  | Template: DEFAULT    | (SM 2320 B-2011) Alkalinity in aqueous matrices as mg CaCO3/L                                                |
| TURBIDITY                   | Template: DEFAULT    | (EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices                                                           |
| W-CL-IC                     | Template: DEFAULT    | (EPA 300.0 Rev. 2.1) Chloride in aqueous matrices                                                            |
| W-COLOR                     | Template: DEFAULT    | (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 Group D (Water) With 1 Samples:**

|                             |                      |                                                                                                            |
|-----------------------------|----------------------|------------------------------------------------------------------------------------------------------------|
| Bottle Type: P-250ML-WO-THI | Number of Bottles: 1 | Preserved With: ICE                                                                                        |
| ECOLI-18QT                  | Template: DEFAULT    | (SM 9223 B Quanti-Tray) Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems |

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

