



# FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

April 2018

Data Qualified?

Yes / No

WIN Station Name: Merritt's Mill Pond 500 meters upstream of dam

Date: 9/12/2018

(mm/dd/yyyy)

WIN/ Field ID: G2WA0009

WBID: 180A

Latitude: 30.755

County: Jackson

ORG ID: 21FLWQA

Longitude: -85.1881

(Decimal Degrees)

Receiving Body of Water: Chipola River

RQ-2018- 09-10-22

(Decimal Degrees)

| Sampling Team Members                                                         |                                                                                                                                                                                                                                                                                                                                                                             |                 |                  |                 | WQ Measurements | Sample Collection                                                                 | Documentation | Preservation   | Preservation Check | Sampling Equipment                                   |                                                    |                                          |  |  |
|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------|-----------------|-----------------|-----------------------------------------------------------------------------------|---------------|----------------|--------------------|------------------------------------------------------|----------------------------------------------------|------------------------------------------|--|--|
| Ben Ralys                                                                     |                                                                                                                                                                                                                                                                                                                                                                             |                 |                  |                 |                 | X                                                                                 |               |                |                    | <input checked="" type="checkbox"/> Sample Container | <input type="checkbox"/> Van Dorn                  | <input type="checkbox"/> Pole            |  |  |
| Curtis Musson                                                                 |                                                                                                                                                                                                                                                                                                                                                                             |                 |                  |                 | X               |                                                                                   |               |                |                    | <input type="checkbox"/> Carboy                      | <input checked="" type="checkbox"/> Syringe        |                                          |  |  |
|                                                                               |                                                                                                                                                                                                                                                                                                                                                                             |                 |                  |                 |                 | X                                                                                 |               |                |                    | <input type="checkbox"/> Dipper                      | <input type="checkbox"/> Other                     |                                          |  |  |
|                                                                               |                                                                                                                                                                                                                                                                                                                                                                             |                 |                  |                 |                 |                                                                                   |               |                |                    | Depth Measured with <u>Secchi</u>                    |                                                    |                                          |  |  |
|                                                                               |                                                                                                                                                                                                                                                                                                                                                                             |                 |                  |                 |                 |                                                                                   |               |                |                    | Equipment ID                                         |                                                    |                                          |  |  |
|                                                                               |                                                                                                                                                                                                                                                                                                                                                                             |                 |                  |                 |                 |                                                                                   |               |                |                    | Collection Method                                    |                                                    |                                          |  |  |
|                                                                               |                                                                                                                                                                                                                                                                                                                                                                             |                 |                  |                 |                 |                                                                                   |               |                |                    | <input type="checkbox"/> Wading                      | <input type="checkbox"/> Canoe/Kayak               |                                          |  |  |
|                                                                               |                                                                                                                                                                                                                                                                                                                                                                             |                 |                  |                 |                 |                                                                                   |               |                |                    | <input type="checkbox"/> From Shore                  | <input type="checkbox"/> Electric Motor            |                                          |  |  |
|                                                                               |                                                                                                                                                                                                                                                                                                                                                                             |                 |                  |                 |                 |                                                                                   |               |                |                    | <input type="checkbox"/> Other                       | <input checked="" type="checkbox"/> Gasoline Motor |                                          |  |  |
| Water Level: Dry/ Pooled/ Low / <u>Normal</u> / High / Flooded                |                                                                                                                                                                                                                                                                                                                                                                             |                 |                  |                 |                 |                                                                                   |               |                |                    | Meter ID# Biology #2                                 |                                                    | Matrix: <u>Fresh</u> / Marine / DI       |  |  |
| Photos: Yes / <u>No</u> / Flow: No Flow / Intestinal / Flowing <u>NA</u>      |                                                                                                                                                                                                                                                                                                                                                                             |                 |                  |                 |                 |                                                                                   |               |                |                    | Tide: Rising/ Falling/ Slack <u>NA</u>               |                                                    | Tide Times: High <u>NA</u> Low <u>NA</u> |  |  |
| Time Zone                                                                     | Time                                                                                                                                                                                                                                                                                                                                                                        | Total Depth (m) | Sample Depth (m) | Secchi Disk (m) | DO (mg/L)       | DO (%SAT)                                                                         | pH            | Salinity (PPT) | Sp COND (µmhos/cm) | Temp. (C°)                                           |                                                    |                                          |  |  |
| EST                                                                           | 9:50                                                                                                                                                                                                                                                                                                                                                                        | 2.6             | 0.3              | VOB             | 10.62           | 132.2                                                                             | 8.13          | 0.13           | 275                | 26.53                                                |                                                    |                                          |  |  |
| CEN                                                                           | 9:53                                                                                                                                                                                                                                                                                                                                                                        |                 | 2.1              |                 | 10.17           | 125.6                                                                             | 7.99          | 0.13           | 278                | 26.10                                                |                                                    |                                          |  |  |
| Biological Samples Collected: <u>None</u> HA SCI RPS Algae ID LVS LVI Other:  |                                                                                                                                                                                                                                                                                                                                                                             |                 |                  |                 |                 |                                                                                   |               |                |                    |                                                      |                                                    |                                          |  |  |
| SBIO ID Numbers: SBIO-ID: HA-ID: RPS-ID: Macrophyte-ID: LIMS#: <u>2024634</u> |                                                                                                                                                                                                                                                                                                                                                                             |                 |                  |                 |                 |                                                                                   |               |                |                    |                                                      |                                                    |                                          |  |  |
| Parameter Suite                                                               | Parameter Methods                                                                                                                                                                                                                                                                                                                                                           |                 |                  |                 |                 | Preservation                                                                      | Lot#          | Expiration     | pH Check           |                                                      |                                                    |                                          |  |  |
| Preserved Nutrients                                                           | <input checked="" type="checkbox"/> W-NH3 / <input checked="" type="checkbox"/> W-NO2NO3 / <input checked="" type="checkbox"/> W-TKN / <input checked="" type="checkbox"/> W-TOC / <input checked="" type="checkbox"/> W-S-A-TP                                                                                                                                             |                 |                  |                 |                 | <input checked="" type="checkbox"/> Ice <input checked="" type="checkbox"/> H2SO4 | 8085170       | 3/26/19        | <2                 |                                                      |                                                    |                                          |  |  |
| Metals                                                                        | <input checked="" type="checkbox"/> W-ICPMS <input checked="" type="checkbox"/> W-ICP                                                                                                                                                                                                                                                                                       |                 |                  |                 |                 | <input checked="" type="checkbox"/> Ice <input checked="" type="checkbox"/> HNO3  | 7341010       | 12/7/18        | <2                 |                                                      |                                                    |                                          |  |  |
| Filtered Nutrients                                                            | <input checked="" type="checkbox"/> W-PO4-F <input checked="" type="checkbox"/> Field Filtered 0.45 µm Filter                                                                                                                                                                                                                                                               |                 |                  |                 |                 | <input checked="" type="checkbox"/> Ice                                           | 10825054      |                |                    |                                                      |                                                    |                                          |  |  |
| Chlorophyll                                                                   | <input checked="" type="checkbox"/> CHLSUITE-W                                                                                                                                                                                                                                                                                                                              |                 |                  |                 |                 | <input checked="" type="checkbox"/> Ice                                           |               |                |                    |                                                      |                                                    |                                          |  |  |
| Physical/Aggregate (Fresh)                                                    | <input checked="" type="checkbox"/> Alkalinity / <input checked="" type="checkbox"/> W-F / <input checked="" type="checkbox"/> W-TSS / <input checked="" type="checkbox"/> TURBIDITY / <input checked="" type="checkbox"/> W-CL-IC / <input checked="" type="checkbox"/> W-COLOR / <input checked="" type="checkbox"/> W-SO4-IC / <input checked="" type="checkbox"/> W-TDS |                 |                  |                 |                 | <input checked="" type="checkbox"/> Ice                                           |               |                |                    |                                                      |                                                    |                                          |  |  |
| Physical/Aggregate (Marine)                                                   | <input type="checkbox"/> Alkalinity / <input type="checkbox"/> W-F / <input type="checkbox"/> W-TSS / <input type="checkbox"/> TURBIDITY                                                                                                                                                                                                                                    |                 |                  |                 |                 | <input type="checkbox"/> Ice                                                      |               |                |                    |                                                      |                                                    |                                          |  |  |
| Macroinvertebrates                                                            | <input type="checkbox"/> MI-FW-QLDC                                                                                                                                                                                                                                                                                                                                         |                 |                  |                 |                 | <input type="checkbox"/> Formalin                                                 |               |                |                    |                                                      |                                                    |                                          |  |  |
| Periphyton                                                                    | <input type="checkbox"/> ALGAE-ID                                                                                                                                                                                                                                                                                                                                           |                 |                  |                 |                 | <input type="checkbox"/> Ice                                                      |               |                |                    |                                                      |                                                    |                                          |  |  |
| Microbiology                                                                  | <input type="checkbox"/> E Coli <input type="checkbox"/> F Coli <input type="checkbox"/> Enterococci                                                                                                                                                                                                                                                                        |                 |                  |                 |                 | <input type="checkbox"/> Ice                                                      |               |                |                    |                                                      |                                                    |                                          |  |  |
| Molecular                                                                     | <input type="checkbox"/> PCR-FILTER <input type="checkbox"/> PCR-HF183 <input type="checkbox"/> PCR-BacR <input type="checkbox"/> PCR-GULL2 <input type="checkbox"/> PCR-GFD                                                                                                                                                                                                |                 |                  |                 |                 | <input type="checkbox"/> Ice                                                      |               |                |                    |                                                      |                                                    |                                          |  |  |
| Tracers                                                                       | <input type="checkbox"/> W-E8321-DI <input type="checkbox"/> W-E8321-MS                                                                                                                                                                                                                                                                                                     |                 |                  |                 |                 | <input type="checkbox"/> Ice                                                      |               |                |                    |                                                      |                                                    |                                          |  |  |
| Pesticides                                                                    | <input type="checkbox"/> W-PSNP-TQ <input type="checkbox"/> W-CT-CL-R <input type="checkbox"/> W-PCL-SQ-R <input type="checkbox"/> WE8321-MS                                                                                                                                                                                                                                |                 |                  |                 |                 | <input type="checkbox"/> Ice <input type="checkbox"/> Other                       |               |                |                    |                                                      |                                                    |                                          |  |  |

Contains: 1:1 H2SO4  
Lot No.: SA8085170  
Expires: 03/26/19  
See Safety Data Sheet (SDS)

Contains: 1:1 H2SO4  
Lot No.: SA8085170  
Expires: 03/26/19  
See Safety Data Sheet (SDS)

Contains: 1:1 H2SO4  
Lot No.: SA8085170  
Expires: 03/26/19  
See Safety Data Sheet (SDS)

Notes:

Kit-C

2 ampules of  $H_2SO_4$

Signature:

*[Signature]*

Enter Field Parameters, Verify Station ID in LIMS DMT: 9/19/18

(Initials/Date)

QC Station ID, Field Parameters in LIMS DMT: CM 9-24-18

(Initials/Date)

Scan/Save Field Sheets

Migrate Data to WIN:

Verify Data in WIN:

(Initials/Date)

(Initials/Date)

(Initials/Date)

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

Boldly, this box there is quality data on this name

Meter ID: Biology #2 RQ- 2018-09-10-22 Project: Buap

DO

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

Circle/Fill In: Lab Calibration or Calibration/Verification on Site \_\_\_\_\_

Temperature (Quarterly) FT 1400 Date of Last Temperature Verification \_\_\_\_\_

| DO<br>DEP SOP<br>FT 1500 | Name     | Date    | Time<br>CT-ET | Temp  | D.O.<br>Chart<br>mg/L | Meter<br>D.O.<br>mg/L | % DO  | Probe<br>Charge | Probe<br>Gain | Pass<br>/<br>Fail | Lab<br>/<br>Field |
|--------------------------|----------|---------|---------------|-------|-----------------------|-----------------------|-------|-----------------|---------------|-------------------|-------------------|
| Calibr.                  | Ben Rahs | 9/12/18 | 6:53          | 20.63 | 8.98                  | 8.98                  | 100.0 | 52.3            | —             | (P) F             | (L) F             |
| ICV                      | Ben Rahs | 9/12/18 | 6:55          | 20.66 | 8.98                  | 8.98                  | 100.0 | 52.3            | —             | (P) F             | (L) F             |
| CCV                      | Ben Rahs | 9/12/18 | 2:00          | 22.27 | 8.71                  | 9.14                  | 105.1 | 54.3            | —             | (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; 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>$\mu$ hos/cm | Meter<br>Reading<br>$\mu$ hos/cm | Pass<br>/<br>Fail | Lab<br>/<br>Field |
|---------------------------|----------|---------|---------------|---------|----------------|--------------------------|----------------------------------|-------------------|-------------------|
| Calibr.                   | Ben Rahs | 9/12/18 | 6:58          | 180403A | 4/2019         | 1,000                    | 1,000                            | (P) F             | (L) F             |
| ICV                       | Ben Rahs | 9/12/18 | 7:00          | 180403A | 4/2019         | 1,000                    | 1,000                            | (P) F             | (L) F             |
| CCV                       | Ben Rahs | 9/12/18 | 2:15          | 2802833 | 1/2020         | 100                      | 104                              | (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 | Meter<br>reading<br>SU | mV     | Pass<br>/<br>Fail | Lab<br>/<br>Field |
|--------------------------|----------|---------|---------------|---------|----------------|--------------------|------------------------|--------|-------------------|-------------------|
| Calibr.                  | Ben Rahs | 9/12/18 | 7:02          | 180621E | 1/2020         | 7.0                | 6.94                   | 10.1   | (P) F             | (L) F             |
| Calibr.                  | Ben Rahs | 9/12/18 | 7:04          | 180510B | 5/2019         | 4.0                | 4.00                   | 183.7  | (P) F             | (L) F             |
| Calibr.                  | Ben Rahs | 9/12/18 | 7:06          | 180403D | 10/2019        | 10.0               | 9.91                   | -144.7 | (P) F             | (L) F             |
| ICV                      | Ben Rahs | 9/12/18 | 7:07          | 180403D | 10/2019        | 10.0               | 9.88                   | -143.5 | (P) F             | (L) F             |
| CCV                      | Ben Rahs | 9/12/18 | 2:20          | 180510B | 5/2019         | 4.0                | 4.14                   | 172.8  | (P) F             | (L) F             |
| CCV                      |          |         |               |         |                |                    |                        |        | 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 \_\_\_\_\_, slope from 4 to 7 \_\_\_\_\_ (both must be between 165 and 180 mV)

Is meter equipped with depth sensor? Yes / No If yes, list date of last quarterly depth 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                         |      |      |               |                                                 |                     | 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:

Merrit's Mill Pond BMAP

**Customer: WAS-SECT**

**Project ID: BMAP**

Requester: Curtis Musson

Collected By: Ben LaRys Curtis Musson

Field Report Prepared By:

Sampling Agency: **FDEP**

[illegible]

|                                   |                      |                              |                                 |                           |                       |
|-----------------------------------|----------------------|------------------------------|---------------------------------|---------------------------|-----------------------|
| Relinquished By:<br><i>Jose M</i> | Date/Time<br>9/12/18 | Shipping Method<br>Delivered | Number of Coolers Shipped:<br>1 | Received By:<br><i>AB</i> | Date/Time<br>09-12-18 |
|-----------------------------------|----------------------|------------------------------|---------------------------------|---------------------------|-----------------------|

[illegible]

Cooler Packing Worksheet for Request: RQ-2018-09-10-22

Merrit's Mill Pond BMAP

Ship Cooler On: 9/6/2018

Customer/Project: WAS-SECT/BMAP

Assigned To: SHAIK\_A

Requester: Curtis Musson

Priority: 3

850-245-8453

2600 Blair Stone Rd

Tallahassee, FL 32399

Attn: Curtis Musson

Comments:

No preservatives needed.

Group A: Nutrients, Metals

Group B: Algal ID

Requested Analyses:

**Bottle Group: A**

**# of Sites: 3**

Container ID: P-1L

Qty: 3 Preservation: ICE

Lot # 00071991

Description: Plastic Bottle 1L

**Analysis**

ALKALINITY

TURBIDITY

W-CL-IC

W-COLOR

W-F

W-SO4-IC

W-TDS

W-TSS

**Description**

Alkalinity in aqueous matrices as mg CaCO3/L

Turbidity in aqueous matrices

Chloride in aqueous matrices

True Color measured at 450 nm

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

Sulfate in aqueous matrices

Total Dissolved Solids in aqueous matrices

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

Container ID: BP-1L

Qty: 3 Preservation: ICE

Lot # 1232362

Description: Brown Plastic Bottle 1L

**Analysis**

CHLSUITE-W

**Description**

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

Container ID: P-500ML

Qty: 3 Preservation: HNO3

Lot # 00072044

Description: Plastic Bottle 500 mL

Affix RED nitric acid dot to container.

**Analysis**

W-ICP

W-ICPMS

**Description**

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

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

Container ID: P-500ML

Qty: 3 Preservation: ICE And H2SO4

Lot # 00072044

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

**Analysis**

W-NH3

W-NO2NO3

W-S-A-TP

W-TKN

W-TOC

**Description**

Ammonia in aqueous matrices as mg N/L

Nitrite/Nitrate in aqueous matrices as mg N/L

Total Phosphorus in aqueous matrices as mg P/L

Total Kjeldahl Nitrogen in aqueous matrices

Nonpurgeable Organic Carbon in aqueous matrices

Container ID: P-125ML

Qty: 3 Preservation: FILTER-ICE

Lot # 00069732

Description: Plastic Bottle 125 mL

**Analysis**

W-PO4-F

**Description**

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

**Bottle Group: B**

**# of Sites: 1**

Container ID: PT-50ML

Qty: 1 Preservation: ICE

Lot # 03775003

Description: Plastic Tube 50 mL

**Analysis**

ALGAL\_ID

**Description**

Qualitative assessment of algal taxa present without counts

Cooler Packed By: \_\_\_\_\_ Number of Coolers: \_\_\_\_\_ Date: \_\_\_\_\_

Kit must also include:

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

If Preservation Included:

|          |           |             |
|----------|-----------|-------------|
| ID _____ | Exp _____ | Lot # _____ |
| ID _____ | Exp _____ | Lot # _____ |
| ID _____ | Exp _____ | Lot # _____ |
| ID _____ | Exp _____ | Lot # _____ |
| ID _____ | Exp _____ | Lot # _____ |

**PLEASE RETURN ALL COOLERS FOR RQ-2018-09-10-22**