



# FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2018

Data Qualified?

Yes / No

WIN Station Name: Caney Creek Upstream of US 90

Date: 12/31/2018 CM

WIN/ Field ID: G1WA0014

WBID: 716

Latitude: 30.5325

(mm/dd/yyyy)

County: Jefferson

ORG ID: 21FLWQA

Longitude: -83.9501

(Decimal Degrees)

Receiving Body of Water: Lake Miccosukee

RQ-2018- 01-29-33

(Decimal Degrees)

| Sampling Team Members |  |  |  |  | WQ Measurements | Sample Collection | Documentation | Preservation | Preservation Check |
|-----------------------|--|--|--|--|-----------------|-------------------|---------------|--------------|--------------------|
| Curtis Musson         |  |  |  |  | X               | X                 | X             | X            | X                  |
| Will Lasley           |  |  |  |  | X               | X                 | X             | X            | X                  |

| Sampling Equipment                                   |                                             |                               |  |
|------------------------------------------------------|---------------------------------------------|-------------------------------|--|
| <input checked="" type="checkbox"/> Sample Container | <input type="checkbox"/> Van Dorn           | <input type="checkbox"/> Pole |  |
| <input type="checkbox"/> Carboy                      | <input checked="" type="checkbox"/> Syringe |                               |  |
| <input type="checkbox"/> Dipper                      | <input type="checkbox"/> Other              |                               |  |
| Depth Measured with <u>Motor Sticks</u>              |                                             |                               |  |
| 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: Dry/ Pooled/ Low / Normal / High / Flooded

Meter ID# Bio #2

Matrix: Fresh / Marine / DI

Photos: Yes / No

Flow: No Flow / Intestinal / Flowing / NA

Tide: Rising/ Falling/ Slack/ NA

Tide Times: High NA Low NA

| Time Zone | Time  | Total Depth (m) | Sample Depth (m) | Secchi Disk (m) | DO (mg/L) | DO (%SAT) | pH   | Salinity (PPTH) | Sp COND (µmhos/cm) | Temp. (C°) |
|-----------|-------|-----------------|------------------|-----------------|-----------|-----------|------|-----------------|--------------------|------------|
| EST       | 11:35 | 0.2             | 0.1              | WOB             | 11.78     | 101.6     | 7.03 | 0.04            | 82                 | 8.8        |
| CEN       |       |                 |                  |                 |           |           |      |                 |                    |            |

Biological Samples Collected: None HA SCI RPS Algae ID LVS LVI Other:

SBIO ID Numbers: SBIO-ID: HA-ID: RPS-ID: Macrophyte-ID: LIMS#:

| Parameter Suite             | Parameter Methods                                                                                                                                                                                                                                                                          | Preservation                                                           | Lot#    | Expiration | pH Check                               |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|---------|------------|----------------------------------------|
| Preserved Nutrients         | <input checked="" type="checkbox"/> W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP                                                                                                                                                                                                            | <input checked="" type="checkbox"/> Ice <input type="checkbox"/> H2SO4 | 7275010 | 6/2/18     | <input checked="" type="checkbox"/> <2 |
| Metals                      | <input checked="" type="checkbox"/> W-ICPMS <input checked="" type="checkbox"/> W-ICP                                                                                                                                                                                                      | <input checked="" type="checkbox"/> Ice <input type="checkbox"/> HNO3  | 7261120 | 9-18-18    | <input checked="" type="checkbox"/> <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                                |         |            |                                        |
| Chlorophyll                 | <input checked="" type="checkbox"/> CHLSUITE-W                                                                                                                                                                                                                                             | <input checked="" type="checkbox"/> Ice                                |         |            |                                        |
| Physical/Aggregate (Fresh)  | <input checked="" type="checkbox"/> Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS                                                                                                                                                                            | <input checked="" type="checkbox"/> Ice                                |         |            |                                        |
| Physical/Aggregate (Marine) | <input type="checkbox"/> Alkalinity / W-F / W-TSS / 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 checked="" type="checkbox"/> E Coli <input type="checkbox"/> F Coli <input type="checkbox"/> Enterococci                                                                                                                                                                            | <input checked="" type="checkbox"/> Ice                                |         |            |                                        |
| Molecular                   | <input type="checkbox"/> PCR-FILTER <input checked="" type="checkbox"/> PCR-HF183 <input checked="" type="checkbox"/> PCR-BacR <input type="checkbox"/> PCR-GULL2 <input type="checkbox"/> PCR-GFD                                                                                         | <input checked="" type="checkbox"/> Ice                                |         |            |                                        |
| Tracers                     | <input checked="" type="checkbox"/> W-SUC-AA-R <input checked="" type="checkbox"/> W-UHERB-AA <input checked="" type="checkbox"/> W-AHERB-AA                                                                                                                                               | <input checked="" type="checkbox"/> Ice                                |         |            |                                        |
| Pesticides                  | <input type="checkbox"/> W-PSNP-TQ <input type="checkbox"/> W-UHERB-AA <input type="checkbox"/> W-AHERB-AA <input type="checkbox"/> W-CARB-AA <input type="checkbox"/> W-PCL-SQ-R <input type="checkbox"/> W-PYR-AA-R <input type="checkbox"/> W-GLYPH <input type="checkbox"/> W-SUC-AA-R | <input type="checkbox"/> Ice <input type="checkbox"/> Other            |         |            |                                        |

Notes:  
Kit C  
e.coli  
tracers  
PCR-HF183  
PCR-BacR

Caney Creek  
Upstream of  
US 90

WIN ID/Field ID

G1WA0014

Signature: [Signature]

Date: 1-31-18

Enter Field Parameters, Verify Station ID In LIMS DMT: 4/10/18 (Initials/Date)

QC Station ID, Field Parameters In LIMS DMT: CM 4/10/18 (Initials/Date)

Scan/Save Field Sheets 4/10/18 (Initials/Date)

Migrate Data to WIN: (Initials/Date)

Verify Data In WIN: (Initials/Date)

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

Boldly "X" this box if there is qualified data on this name.

Meter ID: Bio #2 RQ- 2018-01-29-33 Project: Smp

- 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.                  | Curtis Mussen | 1/31/18 | 714           | 19.15 | 9.239                 | 9.25                  | 100.0 | 46              | -             | P/F               | L/F               |
| ICV                      | Curtis Mussen | 1/31/18 | 715           | 19.15 | 9.239                 | 9.25                  | 100.0 | 46              | -             | P/F               | L/F               |
| CCV                      | Curtis Mussen | 1-31-18 | 1351          | 19.5  | 9.25                  | 9.25                  | 100.7 | 46              | -             | P/F               | L/F               |
| CCV                      |               |         |               |       | 9.154                 |                       |       |                 |               | P/F               | L/F               |

DO Acceptance criteria from Table  $\pm 0.3$  mg/L.

Optical: DO gain range 0.85 to 1.15; DO charge N/A.

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

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.                   | Curtis Mussen | 1/31/18 | 717           | 171005D | 10/2018        | 1000                     | 1000                             | P/F               | L/F               |
| ICV                       | Curtis Mussen | 1/31/18 | 717           | 171005D | 10/2018        | 1000                     | 1001                             | P/F               | L/F               |
| CCV                       | Curtis Mussen | 1-31-18 | 1353          | 171005E | 10/2018        | 100                      | 101                              | 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.                  | Curtis Mussen | 1-31-18 | 720           | 170614B | 12/2018        | 7.0                | 7.00                   | 19   | P/F               | L/F               |
| Calibr.                  | Curtis Mussen | 1-31-18 | 721           | 170605A | 10/2018        | 4.01               | 4.01                   | 185  | P/F               | L/F               |
| Calibr.                  | Curtis Mussen | 1-31-18 | 723           | 171005C | 4/2019         | 10.01              | 9.98                   | -140 | P/F               | L/F               |
| ICV                      | Curtis Mussen | 1-31-18 | 725           | 171005A | 10/2018        | 4.01               | 4.01                   | 184  | P/F               | L/F               |
| CCV                      | Curtis Mussen | 1-31-18 | 1354          | 171005C | 4/2019         | 10.01              | 10.00                  | -144 | 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                         | Curtis Mussen | 1-31-18 | 718           | 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:

Page 1 of 3  
last revised Jan 3, 2018

Sampling Agency: FDIP

[illegible]

## Florida Department of Environmental Protection

## Central Laboratory Submittal Form

Customer: WAS-SECT

Requester: Curtis Musson

Field Report Prepared By: Curtis Musson

Project ID: SMP

Collected By: Curtis Musson, Will Lester

Sampling Agency: FDEP

|              |                                                          |                                          |                                 |                                                     |               |                  |
|--------------|----------------------------------------------------------|------------------------------------------|---------------------------------|-----------------------------------------------------|---------------|------------------|
| Location     | WIN ID/Field ID                                          | <input type="checkbox"/> Comp            | Collection (comp begin or grab) | <input checked="" type="checkbox"/> Eastern Central | Composite end | Bottle Group(s)  |
| Field ID     | Little River<br>100 meters<br>upstream of US 90          | <input checked="" type="checkbox"/> Grab | Date 1-31-2018 Time 835         |                                                     |               | (See pg 2)       |
| WIN/STORET # | grwA0073                                                 | Matrix (type, e.g., Salt, Fresh, etc)    | Fresh                           |                                                     |               |                  |
| Latitude     | <input type="checkbox"/> dd <input type="checkbox"/> dms | Temp (C)                                 | 9.70                            | pH                                                  | 6.89          | ABCD             |
| Longitude    | <input type="checkbox"/> dd <input type="checkbox"/> dms | Salinity (ppt)                           | 0.04                            | Sample Depth                                        | 0.3           | 5                |
| Location     | Megginis Arm Run<br>Downstream of Sharekwa0033           | <input type="checkbox"/> Comp            | Collection (comp begin or grab) | <input checked="" type="checkbox"/> Eastern Central | Composite end | Bottle Group(s)  |
| Field ID     |                                                          | <input checked="" type="checkbox"/> Grab | Date 1-31-2018 Time 925         |                                                     |               | A, C, D          |
| WIN/STORET # |                                                          | Matrix (type, e.g., Salt, Fresh, etc)    | Fresh                           |                                                     |               |                  |
| Latitude     | <input type="checkbox"/> dd <input type="checkbox"/> dms | Temp (C)                                 | 7.44                            | pH                                                  | 7.27          | 5                |
| Longitude    | <input type="checkbox"/> dd <input type="checkbox"/> dms | Salinity (ppt)                           | 0.07                            | Sample Depth                                        | 0.1           |                  |
| Location     | Harbinwood<br>Estates Drain grwA0034                     | <input type="checkbox"/> Comp            | Collection (comp begin or grab) | <input checked="" type="checkbox"/> Eastern Central | Composite end | Bottle Group(s)  |
| Field ID     |                                                          | <input checked="" type="checkbox"/> Grab | Date 1-31-2018 Time 1000        |                                                     |               | A, B             |
| WIN/STORET # |                                                          | Matrix (type, e.g., Salt, Fresh, etc)    | Fresh                           |                                                     |               |                  |
| Latitude     | <input type="checkbox"/> dd <input type="checkbox"/> dms | Temp (C)                                 | 9.94                            | pH                                                  | 7.65          | C, D             |
| Longitude    | <input type="checkbox"/> dd <input type="checkbox"/> dms | Salinity (ppt)                           | 0.06                            | Sample Depth                                        | 0.1           | 5                |
| Location     | Ward's Creek<br>upstream of bridge at CR 259 grwA0002    | <input type="checkbox"/> Comp            | Collection (comp begin or grab) | <input checked="" type="checkbox"/> Eastern Central | Composite end | Bottle Group(s)  |
| Field ID     |                                                          | <input checked="" type="checkbox"/> Grab | Date 1-31-18 Time 1100          |                                                     |               | A, B, C, D, E, F |
| WIN/STORET # |                                                          | Matrix (type, e.g., Salt, Fresh, etc)    | Fresh                           |                                                     |               |                  |
| Latitude     | <input type="checkbox"/> dd <input type="checkbox"/> dms | Temp (C)                                 | 6.99                            | pH                                                  | 5.78          |                  |
| Longitude    | <input type="checkbox"/> dd <input type="checkbox"/> dms | Salinity (ppt)                           | 0.02                            | Sample Depth                                        | 0.2           |                  |

|                                |                          |                         |                              |                          |                          |
|--------------------------------|--------------------------|-------------------------|------------------------------|--------------------------|--------------------------|
| Relinquished By: Curtis Musson | Date/Time 1-31-18 / 1331 | Shipping Method DDP OFF | Number of Coolers Shipped: 3 | Received By: [Signature] | Date/Time 1-31-18 / 1331 |
|--------------------------------|--------------------------|-------------------------|------------------------------|--------------------------|--------------------------|

|          |                           |                 |               |     |                                     |
|----------|---------------------------|-----------------|---------------|-----|-------------------------------------|
| Group: F | Bottle Type: QPCR-P-250ML | # of Bottles: 2 | Preservative: | ICE | Enter Number of Bottles Sent to Lab |
|          | PCR-HF183                 |                 |               |     | 2                                   |
| Group: G | Bottle Type: QPCR-P-250ML | # of Bottles: 8 | Preservative: | ICE | Enter Number of Bottles Sent to Lab |
|          | PCR-FILTER                |                 |               |     | 8                                   |

Cooler Packing Worksheet for Request: RQ-2018-01-29-33

Black, Wards, Caney, Harbiwood, Little R., Meginis

Ship Cooler On: 1/26/2018

Customer/Project: WAS-SECT/SMP

Assigned To: SEARSON\_C

Requester: Curtis Musson

Priority: 3

850-245-8453  
2600 Blair Stone Rd  
  
Tallahassee, FL 32399  
  
Attn: Curtis Musson

Comments:

No preservatives needed.

Group A: Freshwater Kit

Group B: Metals

Group C: E. coli

Group D: Tracers (AHERB Short List)

Group E: PCR\_FILTER, HF183

Group F: HF183, BacR

Group G: PCR-filter

Requested Analyses:

**Bottle Group: A**

**# of Sites: 6**

Container ID: P-1L

Qty: 6      Preservation: ICE

Lot # 00069741

Description: Plastic Bottle 1L

**Analysis**

ALKALINITY

TURBIDITY

W-CL-IC

W-COLOR

W-F

W-SO4-IC

W-TDS

W-TSS

**Description**

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

Turbidity in aqueous matrices

Chloride in aqueous matrices

True Color measured at 450 nm

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

Container ID: BP-1L

Qty: 6      Preservation: ICE

Lot # 1214297

Description: Brown Plastic Bottle 1L

**Analysis**

CHLSUITE-W

**Description**

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

Container ID: BG-1L

Qty: 6

Preservation: ICE

Lot # 00069911

Description: Brown Glass Bottle 1L

Affix BLUE dot to container.

**Analysis**

W-AHERB-AA

W-SUC-AA-R

W-UHERB-AA

**Description**

Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS

Analysis of sucralose in water matrices by HPLC/MS/MS

Urea herbicides and other chemicals in water matrices by HPLC/MS/MS

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**Bottle Group: E**

**# of Sites: 1**

Container ID: QPCR-P-250ML

Qty: 2

Preservation: ICE

Lot # 00069545

Description: 250ml Sterile Nalgene (2)

**Analysis**

PCR-FILTER

PCR-HF183

**Description**

Preparation of Samples by Filtration and held for qPCR Analysis

Detection and quantification of human-specific HF183 Bacteroides genetic marker with quantitative polymerase chain reaction

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**Bottle Group: F**

**# of Sites: 1**

Container ID: QPCR-P-250ML

Qty: 2

Preservation: ICE

Lot # 00067460

Description: 250ml Sterile Nalgene (2)

**Analysis**

PCR-BACR

PCR-HF183

**Description**

Detection and quantification of Ruminant specific Bacteroidetes BacR genetic marker with quantitative polymerase chain reaction

Detection and quantification of human-specific HF183 Bacteroides genetic marker with quantitative polymerase chain reaction

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**Bottle Group: G**

**# of Sites: 4**

Container ID: QPCR-P-250ML

Qty: 8

Preservation: ICE

Lot # 00069545

Description: 250ml Sterile Nalgene (2)

**Analysis**

PCR-FILTER

**Description**

Preparation of Samples by Filtration and held for qPCR Analysis