



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
STRATEGIC MONITORING PROGRAM FIELD SHEET

March 2017

PAGE 1 OF 12

Data Qualified?  
Yes / No

Location/STORET Station Name: Caney Creek Downstream of 158A

Date: 08/23/2017

STORET # G1WA0060

WBID: 716

Latitude: 30.52

(mm/dd/yyyy)

(Decimal Degrees)

County: Jefferson RQ: 2017-08-21-27

ORG ID: 21FLWQA

Longitude: -83.94

(Decimal Degrees)

Receiving Body of Water: Lake Miccosukee

Field ID: G1WA0060\_08232017

| Sampling Team Members |  | WQ Measurements | Sample Collection | Documentation | Preservation Check | Duplicate Collection | Blank Collection |
|-----------------------|--|-----------------|-------------------|---------------|--------------------|----------------------|------------------|
| Curtis Musson         |  |                 | X                 | X             | X                  | X                    | NA               |
| Ray Stuart            |  |                 | X                 | X             | X                  | X                    | NA               |
| Phil Homann           |  | X               | X                 |               |                    |                      | NA               |

| Sampling Equipment                                   |                                   |                               |
|------------------------------------------------------|-----------------------------------|-------------------------------|
| <input checked="" type="checkbox"/> Sample Container | <input type="checkbox"/> Van Dorn | <input type="checkbox"/> Pole |
| <input type="checkbox"/> Carboy                      | <input type="checkbox"/> Syringe  |                               |
| <input type="checkbox"/> Dipper                      | <input type="checkbox"/> Other    |                               |
| Equipment ID                                         |                                   |                               |

| Collection Method                              |                                              |
|------------------------------------------------|----------------------------------------------|
| <input checked="" type="checkbox"/> Wading     | <input checked="" type="checkbox"/> Via Boat |
| <input checked="" type="checkbox"/> From Shore | <input type="checkbox"/> Canoe/Kayak         |
| <input type="checkbox"/> Other (note below)    | <input type="checkbox"/> Electric Motor      |
|                                                | <input type="checkbox"/> Gasoline Motor      |

|                                                           |                             |
|-----------------------------------------------------------|-----------------------------|
| Water Level: Dry / Pooled / Low / Normal / High / Flooded | Matrix: Fresh / Marine / DI |
| Meter ID# Bio 2                                           | Photos: Yes / No            |
|                                                           | Tide Falling: Yes / No / NA |

Field Sample

| Time Zone | Time | Sample Depth (m) | Total Depth (m) | DO (mg/L) | DO (%SAT) | pH   | Salinity (ppt) | Secchi Disk (m) | Sp COND (µmhos/cm) | Temp. (C°) |
|-----------|------|------------------|-----------------|-----------|-----------|------|----------------|-----------------|--------------------|------------|
| EST       | 1205 | 0.15             | 0.25            | 5.71      | 69.9      | 6.69 | 0.08           | 1.0.B.          | 175                | 25.56      |
| CEN       |      |                  |                 |           |           |      |                |                 |                    |            |

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

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

| Parameter Suite             | Parameter Methods                                                                                                                                                                                                                                       | Preservation                                                           | Acid 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 | SA 7163030 | 06/12/18   | <input type="checkbox"/> <2 |
| Metals                      | <input checked="" type="checkbox"/> W-ICPMS <input type="checkbox"/> W-ICP                                                                                                                                                                              | <input type="checkbox"/> Ice <input checked="" type="checkbox"/> HNO3  | NA 7086060 | 03/27/18   | <input type="checkbox"/> <2 |
| Filtered Nutrients          | <input checked="" type="checkbox"/> W-PO4-F <input 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"/> qPCR                                                                                                | <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-AHERB-AA <input type="checkbox"/> W-PYR-AA-R <input type="checkbox"/> W-PCL-SQ-R <input type="checkbox"/> W-UHERB-AA <input type="checkbox"/> W-GLYPH <input type="checkbox"/> W-SUC-AA-R | <input type="checkbox"/> Ice <input type="checkbox"/> Other            |            |            |                             |

Contains 1:1 Sulfuric Acid  
Lot No.: SA7163030  
Expires: 06/12/18  
See Safety Data Sheet (SDS)

Contains 1:1 Nitric Acid  
NA-7086060  
EXP: 03/27/18  
Warning! See SDS

# QA/QC Sample Information

## Duplicate

| Time Zone: <b>EST</b> <b>CEN</b> |                                                                                                                                                                                                                                                            | Sample Depth (m): _____                                                              |                                                      | Field ID: <u>G1WA0057_08232017D</u> |                              |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------|-------------------------------------|------------------------------|
| Time: _____                      |                                                                                                                                                                                                                                                            | Total Depth (m): _____                                                               |                                                      |                                     |                              |
| Parameter Suite                  | Parameter Methods                                                                                                                                                                                                                                          | Preservation                                                                         | Acid Lot#                                            | Expiration                          | pH Check                     |
| Preserved Nutrients              | <input type="checkbox"/> W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP                                                                                                                                                                                       | <input type="checkbox"/> Ice <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> | SA 7163030                                           | 06/12/18                            | <input type="checkbox"/> < 2 |
| Metals                           | <input type="checkbox"/> W-ICPMS <input type="checkbox"/> W-ICP                                                                                                                                                                                            | <input type="checkbox"/> Ice <input type="checkbox"/> HNO <sub>3</sub>               |                                                      |                                     | <input type="checkbox"/> < 2 |
| Filtered Nutrients               | <input type="checkbox"/> W-PO4-F <input type="checkbox"/> Field Filtered 0.45 µm Filter                                                                                                                                                                    | <input type="checkbox"/> Ice                                                         | Place Preservative Sticker(s) Here<br>(If Available) |                                     |                              |
| Chlorophyll                      | <input type="checkbox"/> CHLSUITE-W                                                                                                                                                                                                                        | <input type="checkbox"/> Ice                                                         |                                                      |                                     |                              |
| Physical/Aggregate (Fresh)       | <input type="checkbox"/> Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS                                                                                                                                                       | <input type="checkbox"/> Ice                                                         |                                                      |                                     |                              |
| Physical/Aggregate (Marine)      | <input type="checkbox"/> Alkalinity / W-F / W-TSS / TURBIDITY                                                                                                                                                                                              | <input type="checkbox"/> Ice                                                         |                                                      |                                     |                              |
| Microbiology                     | <input type="checkbox"/> E Coli <input type="checkbox"/> F Coli <input type="checkbox"/> Enterococci <input type="checkbox"/> qPCR                                                                                                                         | <input type="checkbox"/> Ice                                                         |                                                      |                                     |                              |
| Tracers                          | <input type="checkbox"/> W-SUC-AA-R <input type="checkbox"/> W-UHERB-AA <input type="checkbox"/> W-AHERB-AA                                                                                                                                                | <input type="checkbox"/> Ice                                                         |                                                      |                                     |                              |
| Pesticides                       | <input type="checkbox"/> W-PSNP-TQ <input type="checkbox"/> W-AHERB-AA <input type="checkbox"/> W-PYR-AA-R<br><input type="checkbox"/> W-PCL-SQ-R <input type="checkbox"/> W-UHERB-AA <input type="checkbox"/> W-GLYPH <input type="checkbox"/> W-SUC-AA-R | <input type="checkbox"/> Ice<br><input type="checkbox"/> Other                       |                                                      |                                     |                              |

## Blank

| Time Zone: <b>EST</b> <b>CEN</b>                                                                                                                |                                                                                                                                                                                                                                                            | Time: <u>0707</u>                                                                                          |                                                      | Field ID: <u>G1WA0057_08232017B</u> |                                         | Location: <u>Moriah Creek</u> |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-------------------------------------|-----------------------------------------|-------------------------------|--|
| <input checked="" type="checkbox"/> Field Blank <input type="checkbox"/> Equipment Blank <input type="checkbox"/> Field Cleaned Equipment Blank |                                                                                                                                                                                                                                                            | Equipment ID: _____                                                                                        |                                                      |                                     |                                         |                               |  |
| Parameter Suite                                                                                                                                 | Parameter Methods                                                                                                                                                                                                                                          | Preservation                                                                                               | Acid 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 checked="" type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> | SA 7163030                                           | 06/12/18                            | <input checked="" type="checkbox"/> < 2 |                               |  |
| Metals                                                                                                                                          | <input type="checkbox"/> W-ICPMS <input type="checkbox"/> W-ICP                                                                                                                                                                                            | <input type="checkbox"/> Ice <input type="checkbox"/> HNO <sub>3</sub>                                     |                                                      |                                     | <input 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                                                                    | Place Preservative Sticker(s) Here<br>(If Available) |                                     |                                         |                               |  |
| Chlorophyll                                                                                                                                     | <input checked="" type="checkbox"/> CHLSUITE-W                                                                                                                                                                                                             | <input checked="" type="checkbox"/> Ice                                                                    |                                                      |                                     |                                         |                               |  |
| Physical/Aggregate (Fresh)                                                                                                                      | <input type="checkbox"/> Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS                                                                                                                                                       | <input type="checkbox"/> Ice                                                                               |                                                      |                                     |                                         |                               |  |
| Physical/Aggregate (Marine)                                                                                                                     | <input type="checkbox"/> Alkalinity / W-F / W-TSS / TURBIDITY                                                                                                                                                                                              | <input type="checkbox"/> Ice                                                                               |                                                      |                                     |                                         |                               |  |
| Microbiology                                                                                                                                    | <input type="checkbox"/> E Coli <input type="checkbox"/> F Coli <input type="checkbox"/> Enterococci <input type="checkbox"/> qPCR                                                                                                                         | <input type="checkbox"/> Ice                                                                               |                                                      |                                     |                                         |                               |  |
| Tracers                                                                                                                                         | <input type="checkbox"/> W-SUC-AA-R <input type="checkbox"/> W-UHERB-AA <input type="checkbox"/> W-AHERB-AA                                                                                                                                                | <input type="checkbox"/> Ice                                                                               |                                                      |                                     |                                         |                               |  |
| Pesticides                                                                                                                                      | <input type="checkbox"/> W-PSNP-TQ <input type="checkbox"/> W-AHERB-AA <input type="checkbox"/> W-PYR-AA-R<br><input type="checkbox"/> W-PCL-SQ-R <input type="checkbox"/> W-UHERB-AA <input type="checkbox"/> W-GLYPH <input type="checkbox"/> W-SUC-AA-R | <input type="checkbox"/> Ice<br><input type="checkbox"/> Other                                             |                                                      |                                     |                                         |                               |  |

## Notes:

Kit C  
E.coli  
PCR  
Tracers

Caney Creek  
Downstream  
of 158A



G1WA0060

Field ID →  
Caney Creek  
Downstream  
of 158A  
Aug 23, 2017



G1WA0060\_08232017

Signature: [Signature]

Date: 8-23-2017

Field Parameters Entered into LIMS: CN 8-24-17

(Initials/Date)

Field Parameters QC in LIMS: DT 9/15/17

(Initials/Date)

Date Migrated to STORET: \_\_\_\_\_

(Initials/Date)

Field Sheets Scanned/Saved: DT 9/15/17

(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 Bico #2

RQ- 2017-08-21-27

Project SMP

- Notes:** (1) Numbers  $\leq 4$ , are rounded down; numbers  $\geq 5$  are rounded up (e.g., 5.15 becomes 5.2).  
 (2) Always wait for meter to stabilize before recording any readings.  
 (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 03/06/2017

| DO DEP SOP FT 1500 | Name          | Date    | Time CT-ET | Temp  | D.O. Chart mg/L | Meter D.O. mg/L | % DO  | Probe Charge | Probe Gain | Pass / Fail | Lab / Field |
|--------------------|---------------|---------|------------|-------|-----------------|-----------------|-------|--------------|------------|-------------|-------------|
| Calibr.            | Curtis Musson | 8/22/17 | 1708       | 23.90 | 8.434           | 8.43            | 100.0 | S1           | —          | P           | LAB         |
| ICV                | Curtis Musson | 8/22/17 | 1710       | 23.93 | 8.434           | 8.44            | 100.1 | S1           | —          | P           | LAB         |
| CCV                | Curtis Musson | 8/23/17 | 1348       | 25.43 | 8.203           | 8.23            | 100.3 | S2           | —          | P           | LAB         |
| CCV                |               |         |            |       |                 |                 |       |              |            |             |             |

Report DO mg/L with one decimal figure and DO % saturation as a whole number with no decimals.

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. Cond. FT 1200 | Name          | Date    | Time CT-ET | Lot #   | Expir. Date | Standard $\mu$ mhos/cm | Meter Reading $\mu$ mhos/cm | Pass / Fail | Lab / Field |
|---------------------|---------------|---------|------------|---------|-------------|------------------------|-----------------------------|-------------|-------------|
| Calibr.             | Curtis Musson | 8/22/17 | 1712       | 170310B | 09/2018     | 7.00                   | 7.00                        | P           | LAB         |
| ICV                 | Curtis Musson | 8/22/17 | 1721       | 170310D | 3/2018      | 1000                   | 1000                        | P           | LAB         |
| CCV                 | Curtis Musson | 8/22/17 | 1723       | 170310D | 3/2018      | 1000                   | 1001                        | P           | LAB         |
| CCV                 | Curtis Musson | 8/23/17 | 1352       | 170614D | 6/2018      | 100                    | 104                         | P           | LAB         |

Report specific conductance as a whole number with no decimal figure.

Conductivity Acceptance criteria  $\pm 5\%$

| pH DEP SOP FT 1100 | Name          | Date    | Time CT-ET | Lot #   | Expir. Date | pH Buffer SU | Meter reading SU | mV   | Pass / Fail | Lab / Field |
|--------------------|---------------|---------|------------|---------|-------------|--------------|------------------|------|-------------|-------------|
| Calibr.            | Curtis Musson | 8/22/17 | 1712       | 170310B | 09/2018     | 7.0          | 7.00             | 140  | P           | LAB         |
| Calibr.            | Curtis Musson | 8/22/17 | 1715       | 170614A | 06/2018     | 4.01         | 4.00             | 201  | P           | LAB         |
| Calibr.            | Curtis Musson | 8/22/17 | 1717       | 170310C | 09/2018     | 10.01        | 9.99             | -115 | P           | LAB         |
| ICV                | Curtis Musson | 8/22/17 | 1719       | 170614A | 06/2018     | 4.01         | 3.81             | 210  | P           | LAB         |
| CCV                | Curtis Musson | 8/23/17 | 1353       | 170310C | 09/2018     | 10.01        | 10.01            | -116 | P           | LAB         |
| CCV                |               |         |            |         |             |              |                  |      |             |             |

Report pH with one decimal place; pH Acceptance criteria  $\pm 0.2$  SU;

mV pH7 Range  $0 \pm 50$ ;

mV pH 4 Range  $+180 \pm 50$ ;

mV pH 10 Range  $-180 \pm 50$ ;

Slope from 7 to 10 and 4 to 7 must be between 165 and 180 mV

Depth (Quarterly)

Date of Last Depth Verification

| Depth Sensor (Daily) | Name | Date | Time CT-ET | Zero the Sensor | ICV Value | Pass / Fail | Lab / Field |
|----------------------|------|------|------------|-----------------|-----------|-------------|-------------|
| Pressure mode in air |      |      |            | 0.000           |           |             |             |

ICV acceptance criteria  $\pm 5\%$  or  $\pm 0.05$ m, whichever is greater

Request Number: RQ-2017-08-21-27  
Caney, Moriah, Wakulla  
Customer: WAS-SECT  
Project ID: SMP

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
Central Lab Sample Submittal Form

Requester: Curtis Musson  
Collected By: Curtis Musson

Field Report Prepared By: Curtis Musson  
Sampling Agency: FDEP  
Page 1 of 15

Wakulla River  
Below Highway  
98 B Bridge  
STORET ↓  
G1WA0028

Field ID →  
Wakulla River  
Below Highway  
98 Bridge  
Aug 23, 2017  
G1WA0028 06232017

Loc  
Moriah Creek 100  
meters upstream  
of Newport Rd.  
STORET ↓  
G1WA0057

Field ID →  
Moriah Creek 100  
meters upstream  
of Newport Rd.  
Aug 23, 2017  
G1WA0057 06232017

QC-DUP  
Moriah Creek 100  
meters upstream  
of Newport Rd.  
STORET ↓  
G1WA0057

Field ID →  
Moriah Creek 100  
meters upstream  
of Newport Rd.  
Aug 23, 2017  
G1WA0057 06232017

Relinquished By: Curtis Musson  
Date/Time: 8/23/17 1300  
Number of Coolers: 3  
Received By: [Signature]  
Date/Time: 8/23/17 1323

|                                                                           |                                                           |                                                                                 |                                                  |                 |
|---------------------------------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------|-----------------|
| <input type="checkbox"/> Comp<br><input checked="" type="checkbox"/> Grab | Collection (comp begin or grab)<br>Date 8/23/17 Time 0830 | <input checked="" type="checkbox"/> Eastern<br><input type="checkbox"/> Central | Collection (comp begin or grab)<br>Date / Time / | Bottle Group(s) |
| Matrix (Salt, Fresh)<br>Fresh                                             | Diss. Oxygen (mg/L)<br>5.02                               |                                                                                 |                                                  |                 |
| Temp (C)<br>22.05                                                         | pH<br>7.75                                                | Sample Deps (m)<br>0.3                                                          | Sp. Conductance (umho/cm)<br>347                 | A               |
| Salinity (ppt)<br>0.17                                                    | Comments                                                  |                                                                                 |                                                  |                 |
| Latitude (Decimal Degrees)<br>30.17607                                    |                                                           | Longitude (Decimal Degrees)<br>-84.2429                                         |                                                  |                 |

|                                                                           |                                                           |                                                                                 |                                                  |                 |
|---------------------------------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------|-----------------|
| <input type="checkbox"/> Comp<br><input checked="" type="checkbox"/> Grab | Collection (comp begin or grab)<br>Date 8/23/17 Time 0904 | <input checked="" type="checkbox"/> Eastern<br><input type="checkbox"/> Central | Collection (comp begin or grab)<br>Date / Time / | Bottle Group(s) |
| Matrix (Salt, Fresh)<br>Fresh                                             | Diss. Oxygen (mg/L)<br>4.78                               |                                                                                 |                                                  |                 |
| Temp (C)<br>25.08                                                         | pH<br>7.82                                                | Sample Deps (m)<br>0.15                                                         | Sp. Conductance (umho/cm)<br>386                 | A               |
| Salinity (ppt)<br>0.18                                                    | Comments                                                  |                                                                                 |                                                  |                 |
| Latitude (Decimal Degrees)<br>30.1857                                     |                                                           | Longitude (Decimal Degrees)<br>-84.1929                                         |                                                  |                 |

|                                                                           |                                                           |                                                                                 |                                                  |                 |
|---------------------------------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------|-----------------|
| <input type="checkbox"/> Comp<br><input checked="" type="checkbox"/> Grab | Collection (comp begin or grab)<br>Date 8/23/17 Time 0904 | <input checked="" type="checkbox"/> Eastern<br><input type="checkbox"/> Central | Collection (comp begin or grab)<br>Date / Time / | Bottle Group(s) |
| Matrix (Salt, Fresh)<br>Fresh                                             | Diss. Oxygen (mg/L)<br>4.78                               |                                                                                 |                                                  |                 |
| Temp (C)<br>25.08                                                         | pH<br>7.82                                                | Sample Deps (m)<br>0.3                                                          | Sp. Conductance (umho/cm)<br>386                 | A               |
| Salinity (ppt)<br>0.18                                                    | Comments<br>QC-DUP                                        |                                                                                 |                                                  |                 |
| Latitude (Decimal Degrees)<br>30.1857                                     |                                                           | Longitude (Decimal Degrees)<br>-84.1929                                         |                                                  |                 |

Request Number: RQ-2017-08-21-27

Caney, Moriah, Wakulla  
Customer: WAS-SECT  
Project ID: SMP

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
Central Lab Sample Submittal Form

Requester: Curtis Musson

Collected By: Curtis Musson

Page 2 of 15  
Field Report Prepared By: Curtis Musson  
Sampling Agency: FDEP

Field ID: →  
Moriah Creek 100  
meters upstream  
of Newport R.I.  
Aug 23, 2017  
G1WA0057\_08232017B

Field ID: →

QC Blank

Loc

Wards Creek  
upstream of  
bridge at  
CR 259  
Aug 23, 2017  
G1WA0002\_08232017

Field ID: →

Wards Creek  
upstream of  
bridge at  
CR 259  
Aug 23, 2017  
G1WA0002\_08232017

Location

Caney Creek  
Upstream of  
US 90  
Aug 23, 2017  
G1WA0014\_08232017

Field ID: →

Caney Creek  
Upstream of  
US 90  
Aug 23, 2017  
G1WA0014\_08232017

Relinquished By:

Curtis Musson

Date/Time

8/23/17 / 1300

Number of Coolers

3

Received By:

[Signature]

Date/Time

8/23/17 1323

|                                          |                                 |                 |                                 |                           |
|------------------------------------------|---------------------------------|-----------------|---------------------------------|---------------------------|
| <input type="checkbox"/> Comp            | Collection (comp begin or grab) | Eastern Central | Collection (comp begin or grab) | Bottle Group(s)           |
| <input checked="" type="checkbox"/> Grab | Date 8/23/17 Time 0707          |                 | Date / Time /                   |                           |
| Matrix (Salt, Fresh)                     | Diss. Oxygen (mg/L)             | pH              | Sample Depth (m)                | Sp. Conductance (umho/cm) |
| DI Water                                 | /                               | /               | /                               | /                         |
| Temp (C)                                 | /                               | /               | /                               | /                         |
| Salinity (ppt)                           | /                               | /               | /                               | /                         |
| Latitude (Decimal Degrees)               | QC Blank                        |                 |                                 | A                         |

|                                          |                                 |                 |                                 |                           |
|------------------------------------------|---------------------------------|-----------------|---------------------------------|---------------------------|
| <input type="checkbox"/> Comp            | Collection (comp begin or grab) | Eastern Central | Collection (comp begin or grab) | Bottle Group(s)           |
| <input checked="" type="checkbox"/> Grab | Date 8/23/17 Time 1053          |                 | Date / Time /                   |                           |
| Matrix (Salt, Fresh)                     | Diss. Oxygen (mg/L)             | pH              | Sample Depth (m)                | Sp. Conductance (umho/cm) |
| Fresh                                    | 2.83                            | 6.76            | 0.3                             | 88                        |
| Temp (C)                                 | 27.23                           | /               | /                               | /                         |
| Salinity (ppt)                           | 0.04                            | /               | /                               | /                         |
| Latitude (Decimal Degrees)               | 30.605                          |                 |                                 | A, C, D, E                |

|                                          |                                 |                 |                                 |                           |
|------------------------------------------|---------------------------------|-----------------|---------------------------------|---------------------------|
| <input type="checkbox"/> Comp            | Collection (comp begin or grab) | Eastern Central | Collection (comp begin or grab) | Bottle Group(s)           |
| <input checked="" type="checkbox"/> Grab | Date 8/23/17 Time 1015          |                 | Date / Time /                   |                           |
| Matrix (Salt, Fresh)                     | Diss. Oxygen (mg/L)             | pH              | Sample Depth (m)                | Sp. Conductance (umho/cm) |
| Fresh                                    | 7.12                            | 7.73            | 0.1                             | 158                       |
| Temp (C)                                 | 24.91                           | /               | /                               | /                         |
| Salinity (ppt)                           | 0.07                            | /               | /                               | /                         |
| Latitude (Decimal Degrees)               | 30.5325                         |                 |                                 | A, B, C, D, F             |

Request Number: RQ-2017-08-21-27

Caney, Moriah, Wakulla  
Customer: WAS-SECT  
Project ID: SMP

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
Central Lab Sample Submittal Form

Requester: Curtis Musson

Collected By: Curtis Musson

Field Report Prepared By: Curtis Musson  
Sampling Agency: FDEP

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Caney Creek STORET ↓  
Downstream  
of 158A  
ATWA00000

Field ID: →  
SI Caney Creek  
Downstream  
of 158A  
Aug 23, 2017  
ATWA00000\_00232017

|                                                                           |                                                           |                                                                                 |                                                  |                 |
|---------------------------------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------|-----------------|
| <input type="checkbox"/> Comp<br><input checked="" type="checkbox"/> Grab | Collection (comp begin or grab)<br>Date 8/23/17 Time 1205 | <input checked="" type="checkbox"/> Eastern<br><input type="checkbox"/> Central | Collection (comp begin or grab)<br>Date — Time — | Bottle Group(s) |
| Matrix (Salt, Fresh)<br>Fresh                                             | Diss. Oxygen (mg/L)<br>5.71                               | Sample Depths (m)<br>0.15                                                       | Sp. Conductance (umho/cm)<br>175                 | AB, C, D        |
| Temp (C)<br>25.56                                                         | pH<br>6.67                                                |                                                                                 |                                                  |                 |
| Salinity (ppt)<br>0.08                                                    | Comments                                                  |                                                                                 |                                                  | F               |
| Latitude (Decimal Degrees)<br>30.52                                       |                                                           | Longitude (Decimal Degrees)<br>-83.44                                           |                                                  |                 |

Location

Field ID

STORET #

Location

Field ID

STORET #

|                                                                |                                                  |                             |                                                  |                 |
|----------------------------------------------------------------|--------------------------------------------------|-----------------------------|--------------------------------------------------|-----------------|
| <input type="checkbox"/> Comp<br><input type="checkbox"/> Grab | Collection (comp begin or grab)<br>Date — Time — | Eastern Central             | Collection (comp begin or grab)<br>Date — Time — | Bottle Group(s) |
| Matrix (Salt, Fresh)                                           | Diss. Oxygen (mg/L)                              | Sample Depths (m)           | Sp. Conductance (umho/cm)                        |                 |
| Temp (C)                                                       | pH                                               |                             |                                                  |                 |
| Salinity (ppt)                                                 | Comments                                         |                             |                                                  |                 |
| Latitude (Decimal Degrees)                                     |                                                  | Longitude (Decimal Degrees) |                                                  |                 |

|                                |                         |                      |                          |                         |
|--------------------------------|-------------------------|----------------------|--------------------------|-------------------------|
| Relinquished By: Curtis Musson | Date/Time: 8/23/17 1300 | Number of Coolers: 3 | Received By: [Signature] | Date/Time: 8/23/17 1325 |
|--------------------------------|-------------------------|----------------------|--------------------------|-------------------------|

4 of 5

Group: A      Bottle Type: P-1L      # of Bottles: 7      Preservative: ICE      Enter Number of Bottles Sent to Lab 7 of 7

ALKALINITY

TURBIDITY

W-CL-IC

W-COLOR

W-F

W-SO4-IC

W-TDS

W-TSS

Group: A      Bottle Type: BP-1L      # of Bottles: 7      Preservative: ICE      Enter Number of Bottles Sent to Lab 7 of 7

CHLSUITE-W

Group: A      Bottle Type: P-500ML      # of Bottles: 7      Preservative: ICE And H2SO4      Enter Number of Bottles Sent to Lab 7 of 7

W-NH3

W-NO2NO3

W-S-A-TP

W-TKN

W-TOC

Group: A      Bottle Type: P-125ML      # of Bottles: 7      Preservative: ICE-FLTR      Enter Number of Bottles Sent to Lab 7 of 7

W-PO4-F

Group: B      Bottle Type: P-500ML      # of Bottles: 2      Preservative: HNO3      Enter Number of Bottles Sent to Lab 2 of 2

W-ICP

W-ICPMS

Group: C      Bottle Type: P-250ML-WO-THI      # of Bottles: 3      Preservative: ICE      Enter Number of Bottles Sent to Lab 3 of 3

ECOLL-18QT

Group: D      Bottle Type: BG-1L      # of Bottles: 3      Preservative: ICE      Enter Number of Bottles Sent to Lab 3 of 3

W-AHERB-AA

W-SUC-AA-R

W-UHERB-AA

Group: E      Bottle Type: QPCR-P-250ML      # of Bottles: 2      Preservative: ICE      Enter Number of Bottles Sent to Lab 2 of 2

PCR-FILTER

PCR-GFD

PCR-HF183

Group: F      Bottle Type: QPCR-P-250ML      # of Bottles: 4      Preservative: ICE      Enter Number of Bottles Sent to Lab 4 of 4

Group: F

Bottle Type:

QPCR-P-250ML

# of Bottles: 4

Preservative:

ICE

Enter Number of Bottles Sent to Lab

4 of 4

PCR-BACR

PCR-FILTER

PCR-HF183

C2 Page 3 of 3

S of S

Cooler Packing Worksheet for Request: RQ-2017-08-21-27

Caney, Moriah, Wakulla

Ship Cooler On: 8/7/2017

Customer/Project: WAS-SECT/SMP

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, CHLA, Physical Aggregates

Group B: Metals

Group C: Microbiology (Bacteria)

Group D: Organics (Wastewater Tracers)

Group E: PCR (FILTER, HF183, GFD)

Group F: PCR (FILTER, HF183, BacR)

**Requested Analyses:**

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**Bottle Group: A**

**# of Sites: 7**

Container ID: P-1L

Qty: 7      Preservation: ICE

Lot # 0068657

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

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Container ID: BP-1L

Qty: 7      Preservation: ICE

Lot # 1200289

Description: Brown Plastic Bottle 1L

**Analysis**

CHLSUITE-W

**Description**

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

Container ID: P-500ML

Qty: 7 Preservation: ICE And H2SO4

Lot # 00068654

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: 7 Preservation: ICE-FLTR

Lot # 00066437

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: 2

Container ID: P-500ML

Qty: 2 Preservation: HNO3

Lot # 00068654

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

Bottle Group: C

# of Sites: 3

Container ID: P-250ML-WO-THI

Qty: 3 Preservation: ICE

Lot # L17013

Description:

Analysis

ECOLI-18QT

Description

Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems

Bottle Group: D

# of Sites: 3

Container ID: BG-1L

Qty: 3 Preservation: ICE

Lot # 00068050

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 # 00067001

Description:

**Analysis**

PCR-FILTER

PCR-GFD

PCR-HF183

**Description**

Preparation of Samples by Filtration and held for qPCR Analysis

Detection and quantification of bird specific Helicobacter GFD genetic marker with quantitative polymerase chain reaction

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

---

**Bottle Group: F**

**# of Sites: 2**

Container ID: QPCR-P-250ML

Qty: 4 Preservation: ICE

Lot # 00067001

Description:

**Analysis**

PCR-BACR

PCR-FILTER

PCR-HF183

**Description**

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

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

Cooler Packed By: APB

Number of Coolers: 3

Date: 8-3-17

Kit must also include:

- ☒ Field Sheets
- ☒ Temperature Control Bottle
- ☒ FedEx Bills, if applicable
- ☒ Plastic Bags
- ☒ Zip Ties

If Preservation Included:

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

**PLEASE RETURN ALL COOLERS FOR RQ-2017-08-21-27**