



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
STRATEGIC MONITORING PROGRAM FIELD SHEET

Data Qualified?  
Yes / No

Econfina River 100m upstream of US 98  
January 2018

WIN Station Name: Econfina River @ Power Line Rd Date: 11/07/2018  
WIN/ Field ID: G1TLHR0090 G1TLHR0070 WBID: 3402 Latitude: 30.132434 30.1429  
County: Jefferson ORG ID: 21FLTLHR Longitude: 83.875369 83.8657  
Receiving Body of Water: Gulf of Mexico RQ-2018- 11-05-46

| Sampling Team Members |  |  |  |  | WQ Measurements | Sample Collection | Documentation | Preservation | Preservation Check |
|-----------------------|--|--|--|--|-----------------|-------------------|---------------|--------------|--------------------|
| Ben Harden            |  |  |  |  |                 |                   |               |              |                    |
| Chris Green           |  |  |  |  |                 |                   |               |              |                    |

| 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          |                               |
| Depth Measured with Equipment ID                     |                                         |                               |
| Collection Method                                    |                                         |                               |
| <input type="checkbox"/> Wading                      | <input type="checkbox"/> Canoe/Kayak    |                               |
| <input checked="" type="checkbox"/> From Shore       | <input type="checkbox"/> Electric Motor |                               |
| <input type="checkbox"/> Other                       | <input type="checkbox"/> Gasoline Motor |                               |

Water Level: Dry / Pooled / Low / Normal / High / Flooded Meter ID# 154177 Matrix: Fresh / Marine / DI  
Photos: Yes / No Flow: No Flow / Intestinal / Flowing / NA Tide: Rising / Falling / Slack / NA Tide Times: High Low

| 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       | 1225 | 0.55            | 0.3              | 0.55            | 5.13      | 57.4      | 6.94 | 0.15           | 3086.0             | 20.9       |
| 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 checked="" type="checkbox"/> H2SO4 | SA8101020 | 04/11/19   | <input checked="" type="checkbox"/> <2 |
| Metals                      | <input checked="" type="checkbox"/> W-ICPMS <input checked="" type="checkbox"/> W-ICP                                                                                                                                                                                                      | <input checked="" type="checkbox"/> Ice <input checked="" type="checkbox"/> HNO3  | NA8197880 | 07/16/19   | <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 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-GED                                                                                                               | <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-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 Group: E

Signature: [Signature] Date: 11/7/18

Place Label Here

Enter Field Parameters, Verify Station ID In LIMS DMT: CG 12-14-18 QC Station ID, Field Parameters In LIMS DMT: BH 12-14-18  
Scan/Save Field Sheets CG 12-14-18 Migrate Data to WIN: CG 12-14-18 Verify Data In WIN: BH 12-14-18  
(Initials/Date) (Initials/Date) (Initials/Date) (Initials/Date)

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

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

Meter ID: 154177

RQ:                     

Project: SMP 2018

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

## Temperature (Quarterly) FT 1400

Date of Last Temperature Verification                     

| DO DEP SOP FT 1500 | Name       | Date      | Time CT/ET | Temp °C | Baro-meter mmHg | D.O. Chart mg/L | Meter D.O. mg/L | % DO | Probe Charge | Probe Gain | Pass / Fail | Lab / Field |
|--------------------|------------|-----------|------------|---------|-----------------|-----------------|-----------------|------|--------------|------------|-------------|-------------|
| Calibr.            | Ben Harden | 11/7/2018 | 840        | 20.9    | 758.4           | 8.92            | 8.92            | 99.9 |              | 0.7868     | P/F         | L/F         |
| ICV                | "          | "         | 842        | 20.9    | 758.4           | 8.92            | 8.92            | 99.9 |              |            | P/F         | L/F         |
| CCV                | "          | "         | 1354       | 23.9    | 756.2           | 8.39            | 8.41            | 99.6 |              |            | P/F         | L/F         |
| CCV                |            |           |            |         |                 |                 |                 |      |              |            | P/F         | L/F         |

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

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

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

| Spec. 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.             | Ben Harden | 11/7/2018 | 843        | 180621C | 07/19       | 1000                   | 1000                        | P/F         | L/F         |
| ICV                 | "          | "         | 844        | 1805F81 | 05/20       | 100                    | 100.9                       | P/F         | L/F         |
| CCV                 | "          | "         | 1355       | 180621C | 07/19       | 1000                   | 1004                        | P/F         | L/F         |
| CCV                 |            |           |            |         |             |                        |                             | P/F         | L/F         |

Conductivity Acceptance criteria  $\pm 5\%$

| pH DEP SOP FT 1100 | Name       | Date      | Time CT/ET | Lot #   | Expir. Date | pH Buffer SU | Temp °C | Meter reading SU | mV     | Pass / Fail | Lab / Field |
|--------------------|------------|-----------|------------|---------|-------------|--------------|---------|------------------|--------|-------------|-------------|
| Calibr.            | Ben Harden | 11/7/2018 | 846        | 180621E | 07/19       | 7.02         | 21.2    | 7.02             | -24.3  | P/F         | L/F         |
| Calibr.            | "          | "         | 848        | 180621D | 07/19       | 4.00         | 21.2    | 4.00             | 147.7  | P/F         | L/F         |
| Calibr.            | "          | "         | 850        | 180403D | 10/19       | 10.05        | 20.8    | 10.05            | -187.3 | P/F         | L/F         |
| ICV                | "          | "         | 851        | "       | "           | 10.05        | 20.3    | 10.06            | -187.8 | P/F         | L/F         |
| CCV                | "          | "         | 1357       | 180621D | 07/19       | 4.00         | 21.1    | 4.07             | 145.6  | 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 10 159.0, slope from 4 to 7 176.0 (both must be between 165 and 180 mV)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)  
 If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification:                     

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID:                     ; Date of last verification:                     

| Depth Sensor (Daily Calibration & ICV) | Name       | Date    | Time CT/ET | Calibrated Value (0.00 or Offset), meters | ICV Value, meters | Pass / Fail | Lab / Field |
|----------------------------------------|------------|---------|------------|-------------------------------------------|-------------------|-------------|-------------|
| Pressure mode in air                   | Ben Harden | 11/7/18 | 853        | 0.272                                     | 0.272             | 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:

# Florida Department of Environmental Protection

## Central Laboratory Submittal Form

Customer: TLH-ROC

Project ID: SMP

Requester: Michael Eckles

Collected By: Chris Green

Field Report Prepared By: Green, Harden

Sampling Agency: 8034

|              |                                        |  |                                       |  |                   |  |                          |  |                 |  |
|--------------|----------------------------------------|--|---------------------------------------|--|-------------------|--|--------------------------|--|-----------------|--|
| Location     | Econting River @ Cabbage Grove Salt Pk |  | Collection (comp begin or grab)       |  | Time 1135         |  | Composite end            |  | Bottle Group(s) |  |
| Field ID     | G1TLHRO092                             |  | Matrix (type, e.g., Salt, Fresh, etc) |  | Diss. Oxygen 5.41 |  | mg/L Total Res. Chlorine |  | (See pg 2)      |  |
| WIN/STORET # | G1TLHRO092                             |  | Temp (C) 20.8                         |  | pH 7.12           |  | ft Sp. Conductance       |  | 260.6           |  |
| Latitude     | dd dms                                 |  | Salinity (ppt) 0.12                   |  | Comments          |  |                          |  | D               |  |
| Location     | Econting River @ 10m upstream of US 98 |  | Collection (comp begin or grab)       |  | Time 1225         |  | Composite end            |  | Bottle Group(s) |  |
| Field ID     | G1TLHRO070                             |  | Matrix (type, e.g., Salt, Fresh, etc) |  | Diss. Oxygen 5.13 |  | mg/L Total Res. Chlorine |  | (See pg 2)      |  |
| WIN/STORET # | G1TLHRO070                             |  | Temp (C) 20.9                         |  | pH 6.94           |  | ft Sp. Conductance       |  | 308.0           |  |
| Latitude     | dd dms                                 |  | Salinity (ppt) 0.15                   |  | Comments          |  |                          |  | D               |  |
| Location     |                                        |  | Collection (comp begin or grab)       |  | Time              |  | Composite end            |  | Bottle Group(s) |  |
| Field ID     |                                        |  | Matrix (type, e.g., Salt, Fresh, etc) |  | Diss. Oxygen      |  | mg/L Total Res. Chlorine |  | (See pg 2)      |  |
| WIN/STORET # |                                        |  | Temp (C)                              |  | pH                |  | ft Sp. Conductance       |  |                 |  |
| Latitude     | dd dms                                 |  | Salinity (ppt)                        |  | Comments          |  |                          |  |                 |  |
| Location     |                                        |  | Collection (comp begin or grab)       |  | Time              |  | Composite end            |  | Bottle Group(s) |  |
| Field ID     |                                        |  | Matrix (type, e.g., Salt, Fresh, etc) |  | Diss. Oxygen      |  | mg/L Total Res. Chlorine |  | (See pg 2)      |  |
| WIN/STORET # |                                        |  | Temp (C)                              |  | pH                |  | ft Sp. Conductance       |  |                 |  |
| Latitude     | dd dms                                 |  | Salinity (ppt)                        |  | Comments          |  |                          |  |                 |  |

|                  |                |                    |                              |              |                    |
|------------------|----------------|--------------------|------------------------------|--------------|--------------------|
| Relinquished By: | Date/Time 1547 | Shipping Method HD | Number of Coolers Shipped: 1 | Received By: | Date/Time 11/21/18 |
|------------------|----------------|--------------------|------------------------------|--------------|--------------------|

|          |                                                                                                    |         |                 |                             |                                                   |
|----------|----------------------------------------------------------------------------------------------------|---------|-----------------|-----------------------------|---------------------------------------------------|
| Group: C | Bottle Type:<br>W-NH3<br>W-NO2NO3<br>W-S-A-TP<br>W-TKN<br>W-TOC                                    | P-500ML | # of Bottles: 1 | Preservative: ICE And H2SO4 | Enter Number of Bottles Sent to Lab               |
| Group: C | Bottle Type:<br>W-PO4-F                                                                            | P-125ML | # of Bottles: 1 | Preservative: FILTER-ICE    | Enter Number of Bottles Sent to Lab               |
| Group: D | Bottle Type:<br>ALKALINITY<br>TURBIDITY<br>W-CL-IC<br>W-COLOR<br>W-F<br>W-SO4-IC<br>W-TDS<br>W-TSS | P-1L    | # of Bottles: 4 | Preservative: ICE           | Enter Number of Bottles Sent to Lab 2             |
| Group: D | Bottle Type:<br>CHLSUITE-W                                                                         | BP-1L   | # of Bottles: 4 | Preservative: ICE           | Enter Number of Bottles Sent to Lab 2             |
| Group: D | Bottle Type:<br>W-ICP<br>W-ICPMS                                                                   | P-500ML | # of Bottles: 4 | Preservative: HNO3          | Enter Number of Bottles Sent to Lab<br>NA 8197080 |
| Group: D | Bottle Type:<br>W-NH3<br>W-NO2NO3<br>W-S-A-TP<br>W-TKN<br>W-TOC                                    | P-500ML | # of Bottles: 4 | Preservative: ICE And H2SO4 | Enter Number of Bottles Sent to Lab<br>SA 8101020 |
| Group: D | Bottle Type:<br>W-PO4-F                                                                            | P-125ML | # of Bottles: 4 | Preservative: FILTER-ICE    | Enter Number of Bottles Sent to Lab 2             |
| Group: E | Bottle Type:<br>ALKALINITY<br>TURBIDITY                                                            | P-1L    | # of Bottles: 2 | Preservative: ICE           | Enter Number of Bottles Sent to Lab               |