



# FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

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Data Qualified?

Yes / No

January 2017

STORET Station Name: Pine Hill Lake Middle

Date: 3/14/2017

(mm/dd/yyyy)

STORET Station ID: G1WA0054

WBID: 564B

Latitude: 30.58492

(Decimal Degrees)

County: Leon

RQ - 2017-01-23-58

ORG ID: 21FLWQA

Longitude: -84.2195

(Decimal Degrees)

Receiving Body of Water: UNNAMED DRAIN (WBID 564)

Field ID: G1WA0054-03142017

| Sampling Team Members                                                |       |                                                                                                                                     |                 | WQ Measurements             | Sample Collection | Documentation                                                                     | Preservation   | Preservation Check          | Sampling Equipment                                   |                                                 |                               |  |
|----------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------------|-------------------|-----------------------------------------------------------------------------------|----------------|-----------------------------|------------------------------------------------------|-------------------------------------------------|-------------------------------|--|
| Diana Turner                                                         |       |                                                                                                                                     |                 |                             |                   |                                                                                   |                |                             | <input checked="" type="checkbox"/> Sample Container | <input type="checkbox"/> Van Dorn               | <input type="checkbox"/> Pole |  |
| Robert Wiwi                                                          |       |                                                                                                                                     |                 |                             |                   |                                                                                   |                |                             | <input type="checkbox"/> Carboy                      | <input type="checkbox"/> Syringe                |                               |  |
|                                                                      |       |                                                                                                                                     |                 |                             |                   |                                                                                   |                |                             | <input type="checkbox"/> Dipper                      | <input type="checkbox"/> Other                  |                               |  |
|                                                                      |       |                                                                                                                                     |                 |                             |                   |                                                                                   |                |                             | Equipment ID                                         |                                                 |                               |  |
|                                                                      |       |                                                                                                                                     |                 |                             |                   |                                                                                   |                |                             | Collection Method                                    |                                                 |                               |  |
|                                                                      |       |                                                                                                                                     |                 |                             |                   |                                                                                   |                |                             | <input type="checkbox"/> Wading                      | <input checked="" type="checkbox"/> Via Boat    |                               |  |
|                                                                      |       |                                                                                                                                     |                 |                             |                   |                                                                                   |                |                             | <input type="checkbox"/> From Shore                  | <input checked="" 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# Biology 2                                                  |       |                                                                                                                                     |                 | Photos: Yes / No            |                   |                                                                                   |                | Tide Falling: Yes / No / NA |                                                      |                                                 |                               |  |
| 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                                                                  | 10:35 | 0.3                                                                                                                                 | 2.1             | 9.38                        | 98.6              | 4.22                                                                              | 0.02           | 1.25                        | 45                                                   | 17.33                                           |                               |  |
| CEN                                                                  |       | 1.6                                                                                                                                 |                 | 9.10                        | 95.0              | 4.20                                                                              | 0.02           |                             | 45                                                   | 17.30                                           |                               |  |
| 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 checked="" type="checkbox"/> H2SO4 |                | 6302030                     | 10/28/17                                             | <input checked="" type="checkbox"/> <2          |                               |  |
| Metals                                                               |       | <input type="checkbox"/> W-ICPMS <input type="checkbox"/> W-ICP                                                                     |                 |                             |                   | <input type="checkbox"/> Ice <input type="checkbox"/> HNO2                        |                |                             |                                                      | <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 type="checkbox"/> E Coli <input type="checkbox"/> F Coli <input type="checkbox"/> Entero <input type="checkbox"/> PCR-FILTER |                 |                             |                   | <input type="checkbox"/> Ice                                                      |                |                             |                                                      |                                                 |                               |  |
| Tracers                                                              |       | <input type="checkbox"/> W-SUC-AA-R <input type="checkbox"/> W-UHERB-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                          |                 |                             |                   | <input type="checkbox"/> Ice                                                      |                |                             |                                                      |                                                 |                               |  |
|                                                                      |       | <input type="checkbox"/> W-PCL-SQ-R <input type="checkbox"/> W-UHERB-AA <input type="checkbox"/> W-GLYPH                            |                 |                             |                   | <input type="checkbox"/> Other                                                    |                |                             |                                                      |                                                 |                               |  |

Notes:  
1-Kit A

Field ID →

Pine Hill  
Lake Middle

Mar 14, 2017



G1WA0054-03142017

Pine Hill  
Lake Middle

STORET ↓



G1WA0054

Signature:

Date: 3/14/17

Field Parameters Entered into LIMS: DT 3/14/17

Field Parameters QC in LIMS:

Date Migrated to STORET:

Field Sheets Scanned/Saved: DT 3/14/17

**\* DID NOT COLLECT pH \***  
(cap was left on)

**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 page.

Meter **Biology 2**

RQ- **2017-01-23-58**

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 ~~09/23/2016~~ **3/6/17** *rw*

| 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>/ Fail | Lab<br>/ Field |
|--------------------------|-------------|---------|---------------|------|-----------------------|-----------------------|------|-----------------|---------------|----------------|----------------|
| Calibr.                  | Robert Wini | 3/13/17 | 15:12         | 20.6 | 9.0                   | 9.6                   | 100  | 50.2            | —             | P              | L              |
| ICV                      | Robert Wini | 3/13/17 | 15:13         | 20.6 | 9.0                   | 9.0                   | 100  | 50.2            | —             | P              | L              |
| CCV                      | Robert Wini | 3/14/17 | 12:52         | 16.7 | 9.7                   | 9.9                   | 102  | 48.2            | —             | P              | L              |
| 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.<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>/ Fail | Lab<br>/ Field |
|---------------------------|-------------|---------|---------------|---------|----------------|--------------------------|----------------------------------|----------------|----------------|
| Calibr.                   | Robert Wini | 3/13/17 | 15:15         | 161111D | 11/17          | 1000                     | 1000                             | P              | L              |
| ICV                       | Robert Wini | 3/13/17 | 15:16         | 161111D | 11/17          | 1000                     | 1000                             | P              | L              |
| CCV                       | ↓           | 3/14/17 | 12:55         | 2510F25 | 10/17          | 100                      | 102                              | P              | L              |
| CCV                       |             |         |               |         |                |                          |                                  |                |                |

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

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>/ Fail | Lab<br>/ Field |
|--------------------------|-------------|---------|---------------|---------|----------------|--------------------|------------------------|--------|----------------|----------------|
| Calibr.                  | Robert Wini | 3/13/17 | 15:17         | 161111B | 5/18           | 7.0                | 7.0                    | -17.6  | P              | L              |
| Calibr.                  | ↓           | ↓       | 15:19         | 161111A | 11/17          | 4.0                | 4.0                    | 164.8  | P              | L              |
| Calibr.                  | ↓           | ↓       | 15:20         | 161111C | 5/18           | 10.0               | 10.0                   | -174.1 | P              | L              |
| ICV                      | ↓           | ↓       | 15:22         | 161111A | 11/17          | 4.0                | 3.9                    | 170.9  | P              | L              |
| CCV                      | ↓           | 3/14/17 |               |         |                |                    |                        |        |                | L              |
| 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<br>(Daily) | Name | Date | Time<br>CT-ET | Zero the<br>Sensor | ICV Value | Pass /<br>Fail | Lab /<br>Field |
|-------------------------|------|------|---------------|--------------------|-----------|----------------|----------------|
| Pressure mode<br>in air |      |      |               | 0.000              |           |                |                |

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

# FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Request Number: RQ-2017-01-23-58

Killearn Chain of Lakes

Customer: WQ-ASSESS

Project ID: SMP

Central Lab Sample Submittal Form

Requester: Curtis Musson

Field Report Prepared By: Diane Turner

Sampling Agency: FDEP

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Collected By: Robert Wiwi & Dianne Turner

| Collection (comp begin or grab) |                                     | Collection (comp begin or grab) |          | Collection (comp begin or grab)     |                          | Bottle Group(s)           |
|---------------------------------|-------------------------------------|---------------------------------|----------|-------------------------------------|--------------------------|---------------------------|
| Comp                            | Grab                                | Date                            | Time     | Eastern                             | Central                  | Date                      |
| <input type="checkbox"/>        | <input checked="" type="checkbox"/> | 3/14/17                         | 8:45 AM  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                           |
| Matrix (Salt, Fresh)            |                                     | Diss. Oxygen (mg/L)             |          | Sample Depts (m)                    |                          | Sp. Conductance (umho/cm) |
| Fresh                           |                                     | 8.45                            |          |                                     |                          | 76                        |
| Temp (C)                        |                                     | pH                              |          |                                     |                          |                           |
| 17.15                           |                                     |                                 |          |                                     |                          |                           |
| Salinity (ppt)                  |                                     | Comments                        |          |                                     |                          |                           |
| 0.03                            |                                     |                                 |          |                                     |                          |                           |
| Latitude (Decimal Degrees)      |                                     |                                 |          | Longitude (Decimal Degrees)         |                          |                           |
| 30.54986                        |                                     |                                 |          | -84.23778                           |                          | A                         |
| <input type="checkbox"/>        | <input checked="" type="checkbox"/> | 3/14/17                         | 9:35 AM  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                           |
| Matrix (Salt, Fresh)            |                                     | Diss. Oxygen (mg/L)             |          | Sample Depts (m)                    |                          | Sp. Conductance (umho/cm) |
| Fresh                           |                                     | 7.87                            |          |                                     |                          |                           |
| Temp (C)                        |                                     | pH                              |          |                                     |                          |                           |
| 18.38                           |                                     |                                 |          |                                     |                          |                           |
| Salinity (ppt)                  |                                     | Comments                        |          |                                     |                          |                           |
| 0.03                            |                                     |                                 |          |                                     |                          |                           |
| Latitude (Decimal Degrees)      |                                     |                                 |          | Longitude (Decimal Degrees)         |                          |                           |
| 30.59355                        |                                     |                                 |          | -84.23534                           |                          | A                         |
| <input type="checkbox"/>        | <input checked="" type="checkbox"/> | 3/14/17                         | 10:10 AM | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                           |
| Matrix (Salt, Fresh)            |                                     | Diss. Oxygen (mg/L)             |          | Sample Depts (m)                    |                          | Sp. Conductance (umho/cm) |
| Fresh                           |                                     | 7.97                            |          |                                     |                          |                           |
| Temp (C)                        |                                     | pH                              |          |                                     |                          |                           |
| 17.56                           |                                     |                                 |          |                                     |                          |                           |
| Salinity (ppt)                  |                                     | Comments                        |          |                                     |                          |                           |
| 0.03                            |                                     |                                 |          |                                     |                          |                           |
| Latitude (Decimal Degrees)      |                                     |                                 |          | Longitude (Decimal Degrees)         |                          |                           |
| 30.58915                        |                                     |                                 |          | -84.22637                           |                          | A                         |

|                                       |                           |                             |                                 |                                  |
|---------------------------------------|---------------------------|-----------------------------|---------------------------------|----------------------------------|
| Relinquished By: <u>Dianne Turner</u> | Date/Time: <u>3/14/17</u> | Number of Coolers: <u>2</u> | Received By: <u>[Signature]</u> | Date/Time: <u>03-14-17 16:31</u> |
|---------------------------------------|---------------------------|-----------------------------|---------------------------------|----------------------------------|

**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
**Central Lab Sample Submittal Form**

Request Number: RQ-2017-01-23-58

Killarn Chain of Lakes

Customer: WQ-ASSESS

Project ID: SMP

Requester: Curtis Musson

Collected By: Robert Wini & Diana Turner

Field Report Prepared By: Diana Turner  
 Sampling Agency: FDEP

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|                                                        |  |                                                               |  |                                        |  |                                          |  |             |  |                  |  |
|--------------------------------------------------------|--|---------------------------------------------------------------|--|----------------------------------------|--|------------------------------------------|--|-------------|--|------------------|--|
| Field ID →<br>Pine Hill<br>Lake Middle<br>Mar 14, 2017 |  | Collection (comp begin or grab)<br>Date 3/14/17 Time 10:35 AM |  | Eastern Central<br>Date                |  | Collection (comp begin or grab)<br>Date  |  | Time        |  | Bottle Group(s)  |  |
| Matrix (Salt, Fresh)<br>Fresh                          |  | Diss. Oxygen (mg/L)<br>9.38                                   |  | Sample Depts (m)<br>0.3                |  | Sp. Conductance (umho/cm)<br>45          |  | pH<br>7.88  |  | Comments<br>A    |  |
| Temp (C)<br>17.33                                      |  | Salinity (ppt)<br>0.02                                        |  | Latitude (Decimal Degrees)<br>30.58492 |  | Longitude (Decimal Degrees)<br>-84.2195  |  | Time        |  | Bottle Group(s)  |  |
| Matrix (Salt, Fresh)<br>Fresh                          |  | Diss. Oxygen (mg/L)<br>7.88                                   |  | Sample Depts (m)<br>0.3                |  | Sp. Conductance (umho/cm)<br>63          |  | pH<br>17.89 |  | Comments<br>A    |  |
| Temp (C)<br>17.89                                      |  | Salinity (ppt)<br>0.03                                        |  | Latitude (Decimal Degrees)<br>30.54484 |  | Longitude (Decimal Degrees)<br>-84.21478 |  | Time        |  | Bottle Group(s)  |  |
| Matrix (Salt, Fresh)<br>Fresh                          |  | Diss. Oxygen (mg/L)<br>7.82                                   |  | Sample Depts (m)<br>0.1                |  | Sp. Conductance (umho/cm)<br>94          |  | pH<br>13.31 |  | Comments<br>A, B |  |
| Temp (C)<br>13.31                                      |  | Salinity (ppt)<br>0.04                                        |  | Latitude (Decimal Degrees)<br>30.53735 |  | Longitude (Decimal Degrees)<br>-84.22847 |  | Time        |  | Bottle Group(s)  |  |

Field ID →

Pine Hill Lake Middle

Mar 14, 2017

STORIT ↓

G1WA0054-03142017

G1WA0054

Field ID →

Lake Tom John Middle

Mar 14, 2017

STORIT ↓

G1WA0043-03142017

G1WA0043

Field ID →

Killarn Chain of Lakes Outlet at Velda Dairy F.d. across from Mint Hill Ct.

Mar 14, 2017

STORIT ↓

G1WA0015-03142017

G1WA0015

|                               |                         |                     |                          |                          |
|-------------------------------|-------------------------|---------------------|--------------------------|--------------------------|
| Relinquished By: Diana Turner | Date/Time 3/14/17 12:51 | Number of Coolers 2 | Received By: [Signature] | Date/Time 03-14-17 12:31 |
|-------------------------------|-------------------------|---------------------|--------------------------|--------------------------|