# FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
# STRATEGIC MONITORING PROGRAM FIELD SHEET

October 2017

Qualified Data: DO

**Location/STORET Station Name:** Petty Gulf lake Middle **Date:** 11/29/2017 (mm/dd/yyyy)

**STORET #** G1WA0022 **WBID:** 564C **Latitude:** 30.58915 (Decimal Degrees)

**County:** Leon **RQ -** 2017-11-27-26 **ORG ID:** 21FLWQA **Longitude:** -84.22637 (Decimal Degrees)

**Receiving Body of Water:** Lake Iamonia **Field ID:** G1WA0022 11292017

| Sampling Team Members | WQ Measurements | Sample Collection | Documentation | Preservation | Preservation Check |
|---|---|---|---|---|---|
| Ben Ralys | X | X | X | X | X |
| Kyle Klug | | | | | |
| | | | | | |

**Sampling Equipment**
- [x] Sample Container [ ] Van Dorn [ ] Pole
- [ ] Carboy [x] Syringe
- [ ] Dipper [ ] Other
- Equipment ID

**Collection Method**
- [ ] Wading [x] Canoe/Kayak
- [ ] From Shore [ ] Electric Motor
- [ ] Other [ ] Gasoline Motor

**Water Level:** Dry / (Low) / Normal / Above Normal / Flooded

**Meter ID#** Biology #2

**Matrix:** (Fresh) / Marine / DI

**Photos:** Yes / (No)

**Flow:** No Flow / Intestital / Flowing / NA

**Tide:** Rising/ Falling/ Slack/ (NA)

**Tide Times:** High NA Low NA

| Time Zone | Time | Sample Depth (m) | Total Depth (m) | DO (mg/L) | DO (%SAT) | pH | Salinity (PPTh) | Secchi Disk (m) | Sp COND (µmhos/cm) | Temp. (C°) |
|---|---|---|---|---|---|---|---|---|---|---|
| (EST) | 11:40 | 0.3 | 2.5 | 7.79 | 79.3 | 7.58 | 0.03 | 2.0 | 57 | 17.48 |
| CEN | 11:45 | 2.0 | | 7.34 | 75.9 | 7.43 | 0.03 | | 57 | 16.8 |

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

**SBIO ID Numbers:** SBIO-ID: HA-ID: RPS-ID: Macrophyte-ID: LIMS#: 1949355

| Parameter Suite | Parameter Methods | Preservation | Lot# | Expiration | pH Check |
|---|---|---|---|---|---|
| Preserved Nutrients | [x] W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP | [x] Ice [x] $H_2SO_4$ | SA7275010 | 10/2/18 | [x] <2 |
| Metals | [ ] W-ICPMS [ ] W-ICP | [ ] Ice [ ] $HNO_3$ | | | [ ] <2 |
| Filtered Nutrients | [x] W-PO4-F [x] Field Filtered 0.45 µm Filter | [x] Ice | | | |
| Chlorophyll | [x] CHLSUITE-W | [x] Ice | | | |
| Physical/Aggregate (Fresh) | [x] Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS | [x] Ice | | | |
| Physical/Aggregate (Marine) | [ ] Alkalinity / W-F / W-TSS / TURBIDITY | [ ] Ice | | | |
| Macroinvertebrates | [ ] MI-FW-QLDC | [ ] Formalin | | | |
| Periphyton | [ ] ALGAE-ID | [ ] Ice | | | |
| Microbiology | [x] E Coli [ ] F Coli [ ] Enterococci | [x] Ice | | | |
| Molecular | [ ] PCR-FILTER [ ] PCR-HF183 [ ] PCR-BacR [ ] PCR-GULL2 [ ] PCR-GFD | [ ] Ice | | | |
| Tracers | [ ] W-SUC-AA-R [ ] W-UHERB-AA [ ] W-AHERB-AA | [ ] Ice | | | |
| Pesticides | [ ] W-PSNP-TQ [ ] W-UHERB-AA [ ] W-AHERB-AA [ ] W-PCL-SQ-R [ ] W-PYR-AA-R [ ] W-GLYPH [ ] W-SUC-AA-R | [ ] Ice [ ] Other | | | |

Contains: 1:1 Sulfuric Acid
Lot No.: SA7275010
Expires: 10/02/18
See Safety Data Sheet (SDS)

Place Preservat (If A

SULFURIC ACID <51% — DANGER — Contains: 1:1 Sulfuric Acid — THERMO FISHER SCIENTIFIC 320 NORTH MAIN STREET MIAMI, OK 74354 1-800-766-7000

**Notes:**
Kit-A
Bacteria

Petty Gulf lake Middle

STORET ↓ G1WA0022

Field ID → Petty Gulf Lake Middle Nov 29, 2017 G1WA0022

**Signature:** Ben Ralys **Date:** 11/29/2017

Field Parameters Entered into LIMS: 1/3/18 (Initials/Date)

Field Parameters QC in LIMS: CM 4.11.18 (Initials/Date)

Date Migrated to STORET: (Initials/Date)

Field Sheets Scanned/Saved: CM 4/18/18 (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 page.

Meter ID: Biology #2 RQ- 2017-11-27-26 Project: SMP

17.0.

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

Circle/Fill In: Lab Calibration or Calibration/Verification on Site_____

**Temperature (Quarterly) FT 1400** Date of Last Temperature Verification _____

| DO 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. | Ben Ralys | 11/29/17 | 7:09 | 20.87 | 8.95 | 8.95 | 100.1 | 25.7 | | (P) / F | (L) / F |
| ICV | Ben Ralys | 11/29/17 | 7:10 | 20.88 | 8.95 | 8.96 | 100.2 | 25.7 | | (P) / F | (L) / F |
| CCV | Ben Ralys | 11/29/17 | 3:32 | 21.05 | 8.91 | 1.74 | 9.5 | 8.4 | | P / (F) | (L) / F |
| CCV | | | | | | | | | | P / F | L / F |

DO Acceptance criteria from Table ± 0.3 mg/L.
**Optical:** DO gain range 0.85 to 1.15; DO charge N/A.
**Rapid-Pulse Sensors:** DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.
**Steady-state & Galvanic Sensors:** DO Gain & Charge N/A.

| Spec. Cond. FT 1200 | Name | Date | Time CT-ET | Lot # | Expir. Date | Standard µmhos/cm | Meter Reading µmhos/cm | Pass / Fail | Lab / Field |
|---|---|---|---|---|---|---|---|---|---|
| Calibr. | Ben Ralys | 11/29/17 | 7:12 | 171005D | 10/2018 | 1,000 | 1,000 | (P) / F | (L) / F |
| ICV | Ben Ralys | 11/29/17 | 7:13 | 171005D | 10/2018 | 1,000 | 1,000 | (P) / F | (L) / F |
| CCV | Ben Ralys | 11/29/17 | 5:34 | 171005E | 10/2018 | 100 | 100 | (P) / F | (L) / F |
| CCV | | | | | | | | P / F | L / F |

Conductivity Acceptance criteria ± 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. | Ben Ralys | 11/29/17 | 7:15 | 1706143 | 12/2018 | 7.0 | 7.00 | 18.9 | (P) / F | (L) / F |
| Calibr. | Ben Ralys | 11/29/17 | 7:18 | 171005A | 10/2018 | 4.0 | 4.00 | 186.6 | (P) / F | (L) / F |
| Calibr. | Ben Ralys | 11/29/17 | 7:20 | 170310C | 9/2018 | 10.0 | 9.94 | -149.5 | (P) / F | (L) / F |
| ICV | Ben Ralys | 11/29/17 | 7:21 | 170310C | 9/2018 | 10.0 | 9.94 | -149.2 | (P) / F | (L) / F |
| CCV | Ben Ralys | 11/29/17 | 5:36 | 171005A | 10/2018 | 4.0 | 4.0 | 184.5 | (P) / F | (L) / F |
| CCV | | | | | | | | | P / F | L / F |

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50; mV pH 4 Range +180 ± 50; mV pH 10 Range -180 ± 50;
If mV are recorded: slope from 7 to 10 _____, slope from 4 to 7 _____ (both must be between 165 and 180 mV)

**Is meter equipped with depth sensor? Yes / No** If yes, list date of last quarterly depth verification _____

| Depth Sensor (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 | | | | | | P / F | L / F |

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria ± 5 % or ± 0.05m, whichever is greater.

**COMMENTS:**

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

Request Number: 2017-11-27-26
NE Tallahassee Lakes
Customer: WAS-SECT
Project ID: SMP

Requester: Curtis Musson
Collected By: Ben Ralys

Field Report Prepared By: Ben Ralys
Sampling Agency: FDEP



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**Location:** Lake Monkey Business Middle
STORET: G1WA0036
Field ID: Lake Monkey Business Middle
Nov 29, 2017
G1WA0036

| | | | | |
|---|---|---|---|---|
| ☐ Comp ☒ Grab | Collection (comp begin or grab) Date 11/29/17 Time 8:42 am (Eastern / Central) | Collection (comp begin or grab) Date — Time — | Bottle Group(s) | |
| Matrix (Salt, Fresh): Fresh | Diss. Oxygen (mg/L): 11.46 | — | — | A, B |
| Temp (C): 17.05 | pH: 8.14 | Sample Depts (m): 0.3 | Sp. Conductance (umho/cm): 72 | |
| Salinity (ppt): 0.03 | Comments: | | | |
| Latitude (Decimal Degrees): 30.60779 | Longitude (Decimal Degrees): -84.23076 | | | |

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**Location:** Upper Dianne Lake Middle
STORET: G1WA0041
Field ID: Upper Dianne Lake Middle
Nov 29, 2017
G1WA0041

| | | | | |
|---|---|---|---|---|
| ☐ Comp ☒ Grab | Collection (comp begin or grab) Date 11/29/17 Time 9:45 am (Eastern / Central) | Collection (comp begin or grab) Date — Time — | Bottle Group(s) | |
| Matrix (Salt, Fresh): Fresh | Diss. Oxygen (mg/L): 9.94 | — | — | A, B |
| Temp (C): 17.43 | pH: 8.21 | Sample Depts (m): 0.3 | Sp. Conductance (umho/cm): 97 | |
| Salinity (ppt): 0.05 | Comments: | | | |
| Latitude (Decimal Degrees): 30.59986 | Longitude (Decimal Degrees): -84.23778 | | | |

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**Location:** Lower Dianne Lake Middle
STORET: G1WA0040
Field ID: Lower Dianne Lake Middle
Nov 29, 2017
G1WA0040

| | | | | |
|---|---|---|---|---|
| ☐ Comp ☒ Grab | Collection (comp begin or grab) Date 11/29/17 Time 10:45 am (Eastern / Central) | Collection (comp begin or grab) Date — Time — | Bottle Group(s) | |
| Matrix (Salt, Fresh): Fresh | Diss. Oxygen (mg/L): 8.35 | — | — | A, B |
| Temp (C): 17.78 | pH: 8.36 | Sample Depts (m): 0.3 | Sp. Conductance (umho/cm): 82 | |
| Salinity (ppt): 0.04 | Comments: | | | |
| Latitude (Decimal Degrees): 30.59355 | Longitude (Decimal Degrees): -84.23534 | | | |

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| Relinquished By: | Date/Time | Number of Coolers | Received By: | Date/Time |
|---|---|---|---|---|
| [signature] | 11/29/17 2:35 | 2 | [signature] | 11/29/17 2:40 |

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

Request Number: 2017-11-27-26
NE Tallahassee Lakes
Customer: WAS-SECT
Project ID: SMP
Requester: Curtis Musson
Collected By: Ben Ralys
Field Report Prepared By: Ben Ralys
Sampling Agency: FDEP


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**Location:** Petty Gulf Lake Middle
STORET: Q1WA0022
Field ID: Petty Gulf Lake Middle Nov 29, 2017 Q1WA0022

| | | | | |
|---|---|---|---|---|
| ☐ Comp ☒ Grab | Collection (comp begin or grab) Date 11/29/17 Time 11:40 am (Eastern / Central) | Collection (comp begin or grab) Date — Time | | Bottle Group(s) |
| Matrix (Salt, Fresh): Fresh | Diss. Oxygen (mg/L): 7.79 | — | — | |
| Temp (C): 17.48 | pH: 7.58 | Sample Depts (m): 0.3 | Sp. Conductance (umho/cm): 57 | A, B |
| Salinity (ppt): 0.03 | Comments: | | | |
| Latitude (Decimal Degrees): 30.58915 | Longitude (Decimal Degrees): -84.22637 | | | |

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**Location:** Pine Hill Lake Middle
STORET: Q1WA0054
Field ID: Pine Hill Lake Middle Nov 29, 2017 Q1WA0054

| | | | | |
|---|---|---|---|---|
| ☐ Comp ☒ Grab | Collection (comp begin or grab) Date 11/29/17 Time 12:20 pm (Eastern / Central) | Collection (comp begin or grab) Date — Time | | Bottle Group(s) |
| Matrix (Salt, Fresh): Fresh | Diss. Oxygen (mg/L): 5.59 | — | — | |
| Temp (C): 17.87 | pH: 7.28 | Sample Depts (m): 0.3 | Sp. Conductance (umho/cm): 41 | A, B |
| Salinity (ppt): 0.02 | Comments: | | | |
| Latitude (Decimal Degrees): 30.58492 | Longitude (Decimal Degrees): -84.2195 | | | |

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**Location:** Lake Tom John Middle
STORET: Q1WA0043
Field ID: Lake Tom John Middle Nov 29, 2017 Q1WA0043

| | | | | |
|---|---|---|---|---|
| ☐ Comp ☒ Grab | Collection (comp begin or grab) Date 11/29/17 Time 1:45 pm (Eastern / Central) | Collection (comp begin or grab) Date — Time | | Bottle Group(s) |
| Matrix (Salt, Fresh): Fresh | Diss. Oxygen (mg/L): 4.04 | — | — | |
| Temp (C): 18.37 | pH: 7.43 | Sample Depts (m): 0.3 | Sp. Conductance (umho/cm): 64 | A, B |
| Salinity (ppt): 0.03 | Comments: | | | |
| Latitude (Decimal Degrees): 30.54484 | Longitude (Decimal Degrees): -84.21478 | | | |

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| Relinquished By: | Date/Time | Number of Coolers | Received By: | Date/Time |
|---|---|---|---|---|
| | 11/29/17 2:35 | 2 | | 11/29/17 2:40 |

**Cooler Packing Worksheet for Request: RQ-2017-11-27-26**
**NE Tallahassee Lakes**
**Ship Cooler On: 11/21/2017**
**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: Freshwater Kit
Group B: ECOLI

## Requested Analyses:

### Bottle Group: A # of Sites: 6

**Container ID: P-1L** **Qty: 6** **Preservation: ICE** **Lot #** 0006 9122

**Description: Plastic Bottle 1L**

| Analysis | Description |
|---|---|
| ALKALINITY | Alkalinity in aqueous matrices as mg CaCO3/L |
| TURBIDITY | Turbidity in aqueous matrices |
| W-CL-IC | Chloride in aqueous matrices |
| W-COLOR | True Color measured at 450 nm |
| W-F | Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring) |
| W-SO4-IC | Sulfate in aqueous matrices |
| W-TDS | Total Dissolved Solids in aqueous matrices |
| W-TSS | Total Suspended Solids in aqueous matrices |

**Container ID: BP-1L** **Qty: 6** **Preservation: ICE** **Lot #** ~~1808A~~ 1208913

**Description: Brown Plastic Bottle 1L**

| Analysis | Description |
|---|---|
| CHLSUITE-W | Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry |

**Container ID: P-500ML** **Qty: 6** **Preservation: ICE And H2SO4** **Lot #** 0006843

**Description: Plastic Bottle 500 mL** Affix YELLOW sulfuric acid dot to container.

| Analysis | Description |
|---|---|
| W-NH3 | Ammonia in aqueous matrices as mg N/L |
| W-NO2NO3 | Nitrite/Nitrate in aqueous matrices as mg N/L |
| W-S-A-TP | Total Phosphorus in aqueous matrices as mg P/L |
| W-TKN | Total Kjeldahl Nitrogen in aqueous matrices |
| W-TOC | Nonpurgeable Organic Carbon in aqueous matrices |

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**Container ID: P-125ML** **Qty: 6** **Preservation: FILTER-ICE** **Lot #** 0006859

**Description: Plastic Bottle 125 mL**

| Analysis | Description |
|---|---|
| W-PO4-F | Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L |

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## Bottle Group: B # of Sites: 6

**Container ID: P-250ML-WO-THI** **Qty: 6** **Preservation: ICE** **Lot #** L17048

**Description:**

| Analysis | Description |
|---|---|
| ECOLI-18QT | Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems |

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Cooler Packed By: AB Number of Coolers: 2 Date: 11-21-17

Kit must also include:
- ✓ Field Sheets
- ✓ Temperature Control Bottle
- X 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-2017-11-27-26**