FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

October 2017

Qualified Data: DO

Location/STORET Station Name: Pine Hill Lake Middle **Date:** 11/29/2017 (mm/dd/yyyy)

STORET # G1WA0054 **WBID:** 564B **Latitude:** 30.58492 (Decimal Degrees)

County: Leon **RQ -** 2017-11-27-26 **ORG ID:** 21FLWQA **Longitude:** -84.2195 (Decimal Degrees)

Receiving Body of Water: Lake Iamonia **Field ID:** G1WA0054 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)	12:20	0.3	1.0	[redacted] 5.59 J	58.8 J	7.28	0.02	0.9	41	17.87
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#: 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			

Place Preserva (If

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

SULFURIC ACID <51% — DANGER — Contains:1:1 Sulfuric Acid — THERMO FISHER SCIENTIFIC 520 NORTH MAIN STREET MONTAVILLE, NJ 07045 USA 1-800-766-7000

May be corrosive to metals. Causes severe skin burns and eye damage. Do not breathe fume/mist/vapours. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Wash contaminated clothing/eye protection/face protection before reuse. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store locked up. Store in corrosive resistant container with a resistant inner liner.

Notes:
Kit-A
Bacteria

Pine Hill Lake Middle

STORET ↓ G1WA0054

Field ID → Pine Hill Lake Middle Nov 29, 2017 G1WA0054

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

Field Parameters Entered into LIMS: [illegible] 12/3/18 (Initials/Date)

Field Parameters QC in LIMS: CM 4.1.18 (Initials/Date)

Date Migrated to STORET: (Initials/Date)

Field Sheets Scanned/Saved: CM 4/18/13 (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	19.5	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	170614B	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

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			

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			

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			

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

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): A, B

Matrix (Salt, Fresh)	Diss. Oxygen (mg/L)		
Fresh	7.79	—	—
Temp (C)	**pH**	**Sample Depts (m)**	**Sp. Conductance (umho/cm)**
17.48	7.58	0.3	57
Salinity (ppt)	**Comments**		
0.03			
Latitude (Decimal Degrees)		**Longitude (Decimal Degrees)**	
30.58915		-84.22637	

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): A, B

Matrix (Salt, Fresh)	Diss. Oxygen (mg/L)		
Fresh	5.59	—	—
Temp (C)	**pH**	**Sample Depts (m)**	**Sp. Conductance (umho/cm)**
17.87	7.28	0.3	41
Salinity (ppt)	**Comments**		
0.02			
Latitude (Decimal Degrees)		**Longitude (Decimal Degrees)**	
30.58492		-84.2195	

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): A, B

Matrix (Salt, Fresh)	Diss. Oxygen (mg/L)		
Fresh	4.04	—	—
Temp (C)	**pH**	**Sample Depts (m)**	**Sp. Conductance (umho/cm)**
18.37	7.43	0.3	64
Salinity (ppt)	**Comments**		
0.03			
Latitude (Decimal Degrees)		**Longitude (Decimal Degrees)**	
30.54484		-84.21478	

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 #** ~~1800~~ 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

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

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