



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

October 2016

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Data Qualified?

Yes / No

STORET Station Name: Lake Tom John Middle

Date: 12/07/2016

(mm/dd/yyyy)

STORET Station ID: G1WA0043

WBID: 647A

Latitude: 30.54484

(Decimal Degrees)

County: Leon

RQ - 2016-12-05-59

ORG ID: 21FLWQA

Longitude: -84.21478

(Decimal Degrees)

Receiving Body of Water: NA

Field ID: G1WA0043 12072016

Sampling Team Members						WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment				
Robert Wiwi						☒	☒	☒	☒	☒	☒ Sample Container	☐ Van Dorn	☐ Pole		
Diana Turner						☐	☐	☐	☐	☐	☐ Carboy	☒ Syringe			
						☐	☐	☐	☐	☐	☐ Dipper	☐ Other			
											Equipment ID				
											Collection Method				
											☐ Wading	Via Boat			
											☐ From Shore	☒ Canoe/Kayak			
											☐ Other (note below)	☐ Electric Motor			
												☐ Gasoline Motor			
Water Level: Dry / Low / <u>Normal</u> / High / Flooded											Matrix: <u>Fresh</u> / Marine / DI				
Meter ID# <u>Biology 2</u>											Photos: Yes / <u>No</u>				
											Tide Falling: Yes / No / <u>NA</u>				
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	13:10	0.3	2.6	10.0	106	7.4	0.03	1.5	64	19.2					
CEN	13:12	2.1		9.0	98	7.3	0.03		64	19.2					
Biological Samples Collected: <u>None</u> HA SCI LVS RPS LVI Other															
Parameter Suite	Parameter Methods					Preservation	Acid Lot#	Expiration	pH Check						
Preserved Nutrients	☒ W-NH3 / ☒ W-NO2NO3 / ☒ W-TKN / ☒ W-TOC / ☒ W-S-A-TP					☒ Ice ☐ H2SO4	SA-6209120	7/27/17	☒ <2						
Metals	☐ W-ICPMS ☐ W-ICP					☐ Ice ☐ HNO2			☐ <2						
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter					☒ Ice									
Chlorophyll	☒ CHLSUITE-W					☒ Ice									
Physical/Aggregate (Fresh)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CI-IC / W-COLOR / W-SO4-IC / W-TDS					☒ Ice									
Physical/Aggregate (Marine)	☐ Alkalinity / W-F / W-TSS / TURBIDITY					☐ Ice									
Macroinvertebrates	☐ MI-FW-QLDC					☐ Formalin									
Microbiology	☐ E Coli ☐ F Coli ☐ Entero ☐ QPCR					☐ Ice									
Periphyton	☐ ALGAE-ID					☐ Ice									
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R					☐ Ice									
	☐ W-PC-AA-SF ☐ W-UHERB-AA ☐ W-GLYPH					☐ Other									

Contains 1:1 Sulfuric Acid
SA-6209120
EXP: 07/27/17
Warning! See SDS

Notes:	Field ID:	Lake Tom John Middle	Dec. 07, 2016	G1WA0043-12072016	Lake Tom John Middle	STORET	G1WA0043
Signature:	Date: 12/7/16						

Field Parameters Entered into LIMS: DT 12/9/16
(Initials/Date)

Date Migrated to STORET: _____
(Initials/Date)

Field Parameters QC in LIMS: _____
(Initials/Date)

Field Sheets Scanned/Saved: _____
(Initials/Date)

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
 Central Lab Sample Submittal Form

Collected By: Robert Wilhite & Diane Turner

Field Report Prepared By: Diana Turner
 Sampling Agency: FDEP
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Field ID: →
 Lake Monkey
 Business Middle
 Dec. 07, 2016
 G1WA0036-12072016

STORET ↓
 Lake Monkey
 Business Middle
 G1WA0036

Field ID: →
 Upper Dianne
 Lake Middle
 Dec. 07, 2016
 G1WA0041-12072016

STORET ↓
 Upper Dianne
 Lake Middle
 G1WA0041

Field ID: →
 Lower Dianne
 Lake Middle
 Dec. 07, 2016
 G1WA0040-12072016

STORET ↓
 Lower Dianne
 Lake Middle
 G1WA0040

☐ Comp ☒ Grab	Collection (comp begin or grab) Date 12/07/16 Time 9:30 AM	☒ Eastern ☐ Central	Collection (comp begin or grab) Date	Bottle Group(s)
Matrix (Salt, Fresh) Fresh	Diss. Oxygen (mg/L) 9.8	Diss. Oxygen (% Sat) 105		
Temp (C) 19.3	pH 7.7	Sample Depth (m) 0.3		
Salinity (ppt) 0.02	Comments			
Latitude (Decimal Degrees) 30.50779		Longitude (Decimal Degrees) -84.23076		

☐ Comp ☒ Grab	Collection (comp begin or grab) Date 12/07/16 Time 10:20 AM	☒ Eastern ☐ Central	Collection (comp begin or grab) Date	Bottle Group(s)
Matrix (Salt, Fresh) Fresh	Diss. Oxygen (mg/L) 9.5	Diss. Oxygen (% Sat) 103		
Temp (C) 19.3	pH 7.6	Sample Depth (m) 0.3		
Salinity (ppt) 0.03	Comments			
Latitude (Decimal Degrees) 30.50986		Longitude (Decimal Degrees) -84.23778		

☐ Comp ☒ Grab	Collection (comp begin or grab) Date 12/07/16 Time 11:15 AM	☒ Eastern ☐ Central	Collection (comp begin or grab) Date	Bottle Group(s)
Matrix (Salt, Fresh) Fresh	Diss. Oxygen (mg/L) 9.2	Diss. Oxygen (% Sat) 99		
Temp (C) 18.9	pH 7.4	Sample Depth (m) 0.3		
Salinity (ppt) 0.03	Comments			
Latitude (Decimal Degrees) 30.59385		Longitude (Decimal Degrees) -84.23534		

Relinquished By: Diana Turner	Date/Time 12/7/16 / 2:21 pm	Number of Coolers 2	Received By: [Signature]	Date/Time 12-7-16 12:21 PM
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RD-2016-12-05-59

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Central Lab Sample Submittal Form

Killearn Chain of Lakes

Requester: Benjamin Ralys

Collected By: Robert Livi & Diana Turner

Field Report Prepared By: Diana Turner
Sampling Agency: FDEP

Field ID →
Pine Hill
Lake Middle
Dec. 07, 2016
GTWA0054-12072016

STORET ↓
Pine Hill
Lake Middle
GTWA0054

Field ID →
Lake Tom
John Middle
Dec. 07, 2016
GTWA0043-12072016

STORET ↓
Lake Tom
John Middle
GTWA0043

Field ID
Killearn Chain of
Lakes Outlet at
Velda Dairy Fld.
across from Mint
Hill Ct.
GTWA0015-12072016

STORET ↓
Killearn Chain of Lakes Outlet at
Velda Dairy Fld. across from Mint Hill Ct.
07 Dec. 2016
GTWA0015

☐ Comp ☒ Grab	Collection (comp begin or grab) Date 12/07/16 Time 12:00 pm	☒ Eastern ☐ Central	Collection (comp begin or grab) Date	Time	Bottle Group(s)
Matrix (Salt, Fresh) Fresh	Diss. Oxygen (mg/L) 10.3	Diss. Oxygen (% Sat) 109	Sample Depts (m) 0.3	Sp. Conductance (umho/cm) 42	A
Temp (C) 19.2	pH 7.5				
Salinity (ppt) 0.02	Comments				
Latitude (Decimal Degrees) 30.58492		Longitude (Decimal Degrees) -84.2195			

☐ Comp ☒ Grab	Collection (comp begin or grab) Date 12/07/16 Time 1:10 pm	☒ Eastern ☐ Central	Collection (comp begin or grab) Date	Time	Bottle Group(s)
Matrix (Salt, Fresh) Fresh	Diss. Oxygen (mg/L) 10.0	Diss. Oxygen (% Sat) 106	Sample Depts (m) 0.3	Sp. Conductance (umho/cm) 64	A
Temp (C) 19.2	pH 7.4				
Salinity (ppt) 0.03	Comments				
Latitude (Decimal Degrees) 30.54484		Longitude (Decimal Degrees) -84.21478			

☐ Comp ☒ Grab	Collection (comp begin or grab) Date 12/07/16 Time 1:45 pm	☒ Eastern ☐ Central	Collection (comp begin or grab) Date	Time	Bottle Group(s)
Matrix (Salt, Fresh) Fresh	Diss. Oxygen (mg/L) 6.8	Diss. Oxygen (% Sat) 71.0	Sample Depts (m) 0.15	Sp. Conductance (umho/cm) 74	A
Temp (C) 18.1	pH 7.0				
Salinity (ppt) 0.03	Comments				
Latitude (Decimal Degrees) 30.53735		Longitude (Decimal Degrees) -84.22847			

Relinquished By: Diana Turner

Date/Time 12/7/16 / 2:21 pm Number of Coolers 2

Received By: [Signature]

Date/Time 12-7-16 / 12:21 P.M.

Printed: 11/28/2016 1:36:14 PM

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Date of Request: 28-NOV-2016
 Created By: RALYS_B On: 28-NOV-2016
 Modified By: WATTS_J On: 28-NOV-2016
 Customer: WQAP
 Project: SMP
 Division:
 District:
 Sampling Event: Killearn Lakes Chain of Lakes

Send Coolers To:

Phone: 850-245-8443
 2600 Blair Stone Rd
 MS #3560
 Tallahassee, FL 32399-2400
 Attn: Benjamin Ralys

Program Module Number:

Priority: 3

Event Status: A

Criminal Investigation: NO

Chemistry Request Reviewed By: WATTS_J On: 28-NOV-2016

Biology Request Reviewed By: WATTS_J On: 28-NOV-2016

Sampling Kit Required: NO Ship on:

Sampling Kit Shipped:

Sampling Kit Packed By:

Preservatives Needed: NO

Date to Receive Samples: 07-DEC-2016

Received By:

Send Final Report To:

2600 Blair Stone Rd
 MS #3560
 Tallahassee, FL 32399-2400
 Attn: Benjamin Ralys

Report Type: Final Only

FTP Data: NO

QC Report: YES

Date Log: NO

Authorization Log: NO

Comments: Bottle Group A: freshwater kit no metals

Bottle Group A (Water) With 6 Samples:

Bottle Type: P-1L	Number of Bottles: 6	Preserved With: ICE
ALKALINITY	Template: DEFAULT	(SM 2320 B-97) Alkalinity in aqueous matrices as mg CaCO ₃ /L
Total Alkalinity		
TURBIDITY	Template: DEFAULT	(EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices
Turbidity		
W-CL-IC	Template: DEFAULT	(EPA 300.0 Rev. 2.1) Chloride in aqueous matrices
Chloride		
W-COLOR	Template: DEFAULT	(SM 2120 B) True Color measured at 450 nm
Color (true)		
W-F	Template: DEFAULT	(SM 4500 F-C-97) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
Fluoride		
W-TDS	Template: DEFAULT	(SM 2540 C-97) Total Dissolved Solids in aqueous matrices
TDS		
W-TSS	Template: DEFAULT	(SM 2540 D-97) Total Suspended Solids in aqueous matrices
TSS		

Bottle Type: BP-1L	Number of Bottles: 6	Preserved With: ICE
CHLSUITE-W	Template: DEFAULT	(SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, phaeophytin and ratio by spectrophotometry
Chlorophyll/Phaeophytin Ratio		
Chlorophyll-a, Corrected		
Chlorophyll-a, Uncorrected		
Phaeophytin-a		

Bottle Type: P-500ML	Number of Bottles: 6	Preserved With: ICE And H ₂ SO ₄
W-NH ₃	Template: DEFAULT	(EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L
Ammonia-N		
W-NO ₂ NO ₃	Template: DEFAULT	(EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L
NO ₂ NO ₃ -N		
W-S-A-TP	Template: DEFAULT	(EPA 365.1 Rev. 2.0) Total Phosphorus in aqueous matrices as mg P/L

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- 2016-12-05-S9

Project SMP

- Notes: (1) Numbers ≤ 4 , are rounded down; numbers ≥ 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

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.	Robert Wini	12/7/16	7:24	20.5	9.0	9.0	100	57.4	—	P	L
ICV	Robert Wini	12/7/16	7:25	20.5	9.0	9.0	100	51.3	—	P	L
CCV	Robert Wini	12/7/16	14:37	20.7	9.0	9.1	101	52.3	—	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 ± 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 μ mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	Robert Wini	12/7/16	7:29	160330D	4/17	1000	1000	P	L
ICV	Robert Wini	12/7/16	7:30	160330D	4/17	1000	1002	P	L
CCV	Robert Wini	12/7/16	14:41	161111E	5/17	100	100	P	L
CCV									

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.	Robert Wini	12/7/16	7:32	161111B	5/18	7.0	7.0	-21.9	P	L
Calibr.	Robert Wini	12/7/16	7:35	161111A	11/17	4.0	4.0	157.4	P	L
Calibr.	Robert Wini	12/7/16	7:37	160330C	10/17	10.0	10.0	-188.9	P	L
ICV	Robert Wini	12/7/16	7:39	161111A	11/17	4.0	4.0	157.2	P	L
CCV	Robert Wini	12/7/16	14:43	160330C	10/17	10.0	10.1	-193.9	P	L
CCV										

Report pH with one decimal place; pH Acceptance criteria ± 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 ± 0.05 m, whichever is greater