



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

PAGE 1 OF 1

March 2017

Data Qualified?

Yes / No

Location/STORET Station Name: Lake Tom John Middle

Date: 10/24/2017

(mm/dd/yyyy)

STORET # G1WA0043

WBID: 647A

Latitude: 30.54484

County: Leon

RQ - 2017-07-31-16

ORG ID: 21FLWQA

Longitude: -84.21478

(Decimal Degrees)

Receiving Body of Water: Lake Kinsale

Field ID: G1WA0043_10242017

(Decimal Degrees)

Sampling Team Members				WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Benjamin Ralys				X	X	X	X	X
Tyler Reynolds								

Sampling Equipment		
☒ Sample Container	☐ Van Dorn	☐ Pole
☐ 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 / Pooled / Low / <u>Normal</u> / High / Flooded				Matrix: <u>Fresh</u> / Marine / DI						
Meter ID#2		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	8:15	0.3	3.5	8.10	96.6	7.94	0.03	2.1	65	24.19
CEN	8:19	3.0		7.19	78.902	7.62	0.03		65	24.18

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

SBIO ID Numbers: SBIO-ID: RPS-ID: Macrophyte-ID: LIMS#: 1939644

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	SA7233030	8/21/18	☐ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3			☐ <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-Cl-IC / W-COLOR / W-SO4-IC / W-TDS	☒ Ice			
Physical/Aggregate (Marine)	☐ Alkalinity / W-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates	☐ MI-FW-QLDC	☐ Formalin			
Periphyton	☐ ALGAE-ID	☐ Ice			
Microbiology	☒ E Coli ☐ F Coli ☐ Enterococci ☐ qPCR	☒ Ice			
Tracers	☐ W-SUC-AA-R ☐ W-UHERB-AA ☐ W-AHERB-AA	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R	☐ Ice			
	☐ W-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH ☐ W-SUC-AA-R	☐ Other			

SULFURIC ACID <51%
DANGER
7594-80-9
7732-18-5
Contains 1:1 Sulfuric Acid
THERMO FISHER SCIENTIFIC
520 NORTH MAIN STREET
MIAMI, OK 74354
1-800-650-2711
May be corrosive to metals. Causes severe skin burns and eye damage. Do not breathe fumes/vapors. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing 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 in corrosion resistant container with a resistant inner liner.
See Safety Data Sheet (SDS)

Notes:

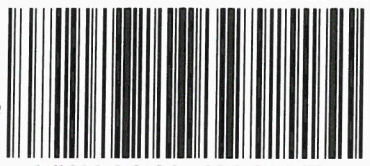
Lake Tom
John Middle

STORET ↓



G1WA0043

Field ID →
Lake Tom
John Middle
OCT 24, 2017



G1WA0043_10242017

Signature:

Br R

Date:

10/24/17

Field Parameters Entered into LIMS:

CN 10/26/17

(Initials/Date)

Field Parameters QC in LIMS:

CN 10/26/18

Field Sheets Scanned/Saved:

CN 10/26/18

(Initials/Date)

Date Migrated to STORET:

(Initials/Date)

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

Do not "X" this box if there is qualified data on this name

Meter ID: Biology #2

RQ: 2017-07-31-16

Project: SMP

- 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	10/24/17	7:12	21.26	8.88	8.87	100.0	51.2	-	(P) F	(L) F
ICV	Ben Ralys	10/24/17	7:14	21.27	8.88	8.87	100.0	51.2	-	(P) F	(L) F
CCV	Ben Ralys	10/24/17	2:16	21.7	8.79	9.45	107.5	51.2		P (E) F	(L) F
CCV										P / F	L / F

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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	Ben Ralys	10/24/17	7:16	170614E	6/2018	1000	1,000	(P) F	(L) F
ICV	Ben Ralys	10/24/17	7:17	170614E	6/2018	1000	1,000	(P) F	(L) F
CCV	Ben Ralys	10/24/17	2:18	170614D	6/2018	100	105	(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	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Ben Ralys	10/24/17	7:19	17061413	12/2018	7.0	6.98	42.2	(P) F	(L) F
Calibr.	Ben Ralys	10/24/17	7:21	171005A	10/2018	4.0	23.82	208.5	(P) F	(L) F
Calibr.	Ben Ralys	10/24/17	7:24	170310C	9/2018	10.0	3.97	212.5	(P) F	(L) F
ICV	Ben Ralys	10/24/17	7:25	170310C	9/2018	10.0	9.91	106.2	(P) F	(L) F
CCV	Ben Ralys	10/24/17	2:19	170614A	6/2018	4.0	9.84	103.1	(P) F	(L) F
CCV				170614D	10/2018		4.04	205.8	P / F	L / F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50 ;

mV pH 4 Range $+180 \pm 50$;

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 $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS:

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Central Lab Sample Submittal Form

Request Number: RQ-2017-07-31-16
Tallahassee Lakes North
Customer: WAS-SECT
Project ID: SMP

Requester: Curtis Musson

Collected By: Ben Rabbs Tyler Reynolds

Field Report Prepared By: Ben Rabbs
Sampling Agency: FDEP

Collection (comp begin or grab)		Collection (comp begin or grab)		Collection (comp begin or grab)	
Comp	Grab	Date	Time	Date	Time
☐	☒	10/24/17	9:10	10/24/17	10:25
Matrix (Salt, Fresh)		Diss. Oxygen (mg/L)		Diss. Oxygen (mg/L)	
Fresh		8.03		8.48	
Temp (C)	23.99	pH	7.85	Temp (C)	24.10
Salinity (ppt)	0.02	Comments		Salinity (ppt)	0.04
Latitude (Decimal Degrees)		30.58492		Latitude (Decimal Degrees)	
Longitude (Decimal Degrees)		-84.2195		Longitude (Decimal Degrees)	
Sample Depts (m)		0.3		Sample Depts (m)	
Sp. Conductance (umho/cm)		42		Sp. Conductance (umho/cm)	
Bottle Group(s)		A,B		Bottle Group(s)	
A,B				A,B	
Collection (comp begin or grab)		Collection (comp begin or grab)		Collection (comp begin or grab)	
Comp	Grab	Date <td>Time</td> <td>Date<td>Time</td></td>	Time	Date <td>Time</td>	Time
☐	☒	10/24/17	12:15	10/24/17	12:15
Matrix (Salt, Fresh)		Diss. Oxygen (mg/L)		Diss. Oxygen (mg/L)	
Fresh		9.55		8.97	
Temp (C)	24.71	pH	8.97	Temp (C)	24.71
Salinity (ppt)	0.04	Comments		Salinity (ppt)	0.04
Latitude (Decimal Degrees)		30.59355		Latitude (Decimal Degrees)	
Longitude (Decimal Degrees)		-84.23534		Longitude (Decimal Degrees)	
Sample Depts (m)		0.3		Sample Depts (m)	
Sp. Conductance (umho/cm)		84		Sp. Conductance (umho/cm)	
Bottle Group(s)		A,B		Bottle Group(s)	
A,B				A,B	

STORET ↓

Pine Hill Lake Middle

Field ID →

Pine Hill Lake Middle

OCT 24, 2017

G1WA0054_10242017

STORET ↓

Upper Dianne Lake Middle

Field ID →

Upper Dianne Lake Middle

OCT 24, 2017

G1WA0041_10242017

STORET ↓

Lower Dianne Lake Middle

Field ID →

Lower Dianne Lake Middle

OCT 24, 2017

G1WA0040_10242017

Relinquished By: Ben Rabbs	Date/Time: 10/24/17	Number of Coolers: 2	Received By: J.2	Date/Time: 10/24/17 1:35
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FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Central Lab Sample Submittal Form

Request Number: RQ-2017-07-31-16
Tallahassee Lakes North
Customer: WAS-SECT
Project ID: SMP
Requester: Curtis Musson
Collected By: Ben Rabys Tyler Reynolds
Field Report Prepared By: Ben Rabys
Sampling Agency: FDEP
Page 1 of 2

Collection (comp begin or grab)		Eastern Central		Collection (comp begin or grab)		Eastern Central		Collection (comp begin or grab)		Eastern Central		Collection (comp begin or grab)		Eastern Central		Bottle Group(s)																																							
Comp	Grab	Date	Time	Diss. Oxygen (mg/L)	pH	Temp (C)	Salinity (ppt)	Latitude (Decimal Degrees)	Longitude (Decimal Degrees)	Sample Depts (m)	Sp. Conductance (umho/cm)	Comp	Grab	Date	Time	Diss. Oxygen (mg/L)	pH	Temp (C)	Salinity (ppt)	Latitude (Decimal Degrees)	Longitude (Decimal Degrees)	Sample Depts (m)	Sp. Conductance (umho/cm)	Comp	Grab	Date	Time	Diss. Oxygen (mg/L)	pH	Temp (C)	Salinity (ppt)	Latitude (Decimal Degrees)	Longitude (Decimal Degrees)	Sample Depts (m)	Sp. Conductance (umho/cm)	Comp	Grab	Date	Time	Diss. Oxygen (mg/L)	pH	Temp (C)	Salinity (ppt)	Latitude (Decimal Degrees)	Longitude (Decimal Degrees)	Sample Depts (m)	Sp. Conductance (umho/cm)								
☐	☒	10/24/17	11:05	8.59	7.5	24.32	0.03	30.60779	-84.23076			☐	☒	10/24/17	8:15	8.10		24.19	0.03	30.54484	-84.21478			☐	☒	10/24/17	9:30	8.33		23.87	0.03	30.58915	-84.22637			☐	☒	10/24/17	8:15	8.10		24.19	0.03	30.54484	-84.21478										
Matrix (Salt, Fresh)												Matrix (Salt, Fresh)												Matrix (Salt, Fresh)												Matrix (Salt, Fresh)										Matrix (Salt, Fresh)									
Temp (C)												Temp (C)												Temp (C)												Temp (C)										Temp (C)									
Salinity (ppt)												Salinity (ppt)												Salinity (ppt)												Salinity (ppt)										Salinity (ppt)									
Latitude (Decimal Degrees)												Latitude (Decimal Degrees)												Latitude (Decimal Degrees)												Latitude (Decimal Degrees)										Latitude (Decimal Degrees)									
Longitude (Decimal Degrees)												Longitude (Decimal Degrees)												Longitude (Decimal Degrees)												Longitude (Decimal Degrees)										Longitude (Decimal Degrees)									
Sample Depts (m)												Sample Depts (m)												Sample Depts (m)												Sample Depts (m)										Sample Depts (m)									
Sp. Conductance (umho/cm)												Sp. Conductance (umho/cm)												Sp. Conductance (umho/cm)												Sp. Conductance (umho/cm)										Sp. Conductance (umho/cm)									

Relinquished By: Ben Rabys	Date/Time: 10/24/17	Number of Coolers: 2	Received By: [Signature]	Date/Time: 10/24/17 1:30
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Group: A	Bottle Type:	P-1L	# of Bottles: 5	Preservative:	ICE	Enter Number of Bottles Sent to Lab	5
ALKALINITY							
TURBIDITY							
W-CL-IC							
W-COLOR							
W-F							
W-SO4-IC							
W-TDS							
W-TSS							
Group: A	Bottle Type:	BP-1L	# of Bottles: 5	Preservative:	ICE	Enter Number of Bottles Sent to Lab	5
CHLSUITE-W							
Group: A	Bottle Type:	P-500ML	# of Bottles: 5	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	5
W-NH3							
W-NO2NO3							
W-S-A-TP							
W-TKN							
W-TOC							
Group: A	Bottle Type:	P-125ML	# of Bottles: 5	Preservative:	ICE-FLTR	Enter Number of Bottles Sent to Lab	5
W-PO4-F							

Cooler Packing Worksheet for Request: RQ-2017-07-31-16

Tallahassee Lakes North
Ship Cooler On: 7/20/2017
Customer/Project: WAS-SECT/SMP

Assigned To: REAVES_S
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

Requested Analyses:

Bottle Group: A

of Sites: 5

Container ID: P-1L

Qty: 5 Preservation: ICE

Lot # 00067591

Description: Plastic Bottle 1L

Analysis

ALKALINITY
TURBIDITY
W-CL-IC
W-COLOR
W-F
W-SO4-IC
W-TDS
W-TSS

Description

Alkalinity in aqueous matrices as mg CaCO3/L
Turbidity in aqueous matrices
Chloride in aqueous matrices
True Color measured at 450 nm
Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
Sulfate in aqueous matrices
Total Dissolved Solids in aqueous matrices
Total Suspended Solids in aqueous matrices

Container ID: BP-1L

Qty: 5 Preservation: ICE

Lot # 1199138

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry

Container ID: P-500ML

Qty: 5 Preservation: ICE And H2SO4

Lot # 00065372

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

Analysis

W-NH3
W-NO2NO3
W-S-A-TP
W-TKN
W-TOC

Description

Ammonia in aqueous matrices as mg N/L
Nitrite/Nitrate in aqueous matrices as mg N/L
Total Phosphorus in aqueous matrices as mg P/L
Total Kjeldahl Nitrogen in aqueous matrices
Nonpurgeable Organic Carbon in aqueous matrices

Container ID: P-125ML

Qty: 5 Preservation: ICE-FLTR

Lot # 00068256

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Cooler Packed By: SR Number of Coolers: 1 Date: 7-20-17

Kit must also include:

- ☒ Field Sheets
- ☒ Temperature Control Bottle
- ☐ 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-2017-07-31-16