



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / ☒ No

WIN Station Name: Lake Tom John Middle

Date: 07/10/2019 ✓
(mm/dd/yyyy)

WIN ID/ Field ID: G1WA0043 ✓

WBID: 647A

Latitude: 30.54484
(Decimal Degrees)

County: Leon

ORG ID: 21FLWQA

Longitude: -84.21478
(Decimal Degrees)

Receiving Body of Water: Lake Kinsale

RQ - 2019-07-08-19

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Duplicate Collection	Blank Collection
Blake Spencer								
Will Lasley								

Sampling Equipment		
☒ Sample Container	☐ Van Dorn	☐ Pole
☐ Carboy	☒ Syringe	
☐ Dipper	☐ Other	
Depth Measured with: ISI PROASS		
Equipment ID		

Collection Method	
☐ Wading	☒ Canoe/Kayak
☐ From Shore	☒ Electric Motor
☐ Other	☐ Gasoline Motor

Water Level: Dry/ Pooled/ Low/ <u>Normal</u> / High/ Flooded	Meter ID# ProASS 185104543	Matrix: <u>Fresh</u> / Marine / DI
Photos: Yes / <u>No</u>	Flow: No Flow / Intestinal / Flowing/ <u>NA</u>	Tide: Rising/ Falling/ Slack/ <u>NA</u>
Tide Times: High <u>NA</u> Low <u>NA</u>		

Field Sample

(Bracket Sample Time)

Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (ppt)	Sp COND (µmhos/cm)	Temp. (C°)
EST	0847	2.6	0.3	2.2	5.21	68.9	6.4	0.03	72.4	30.0
CEN	0849		2.3		0.15	2.0	6.2	0.04	107.4	24.0

Biological Samples Collected: <u>None</u> HA SCI RPS Algae ID LVS LVI Other:							
SBIO ID Numbers: SBIO-ID: HA-ID: RPS-ID: Macrophyte-ID: LIMS#:							
Parameter Suite	Parameter Methods			Preservation	Lot#	Expiration	pH Check
Preserved Nutrients	☒ W-NH3 / ☒ W-NO2NO3 / ☒ W-TKN / ☒ W-TOC / ☒ W-S-A-TP			☒ Ice ☒ H2SO4	SA8344070	12/10/19	☒ <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-BR-IC / ☐ W-F / ☐ W-TSS / ☐ TURBIDITY			☐ Ice			
Macroinvertebrates	☐ MI-FW-QLDC			☐ Formalin			
Periphyton	☐ ALGAE-ID			☐ Ice			
Microbiology	☐ E Coli ☐ F Coli ☐ Enterococci			☐ Ice			
Molecular	☐ PCR-FILTER ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-HF183 ☐ PCR-DG3 ☐ PCR-GFD			☐ Ice			
Tracers	☐ W-E3821-MS ☐ W-E32821-DI			☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-E3821-MS ☐ W-CT-CL-R ☐ W-PCL-SQ-R ☐ W-E3821-DI ☐ W-CARB-AA			☐ Ice			
Phytoplankton	☐ DTY-QN-C ☐ PKD-QN-C			☐ Ice			

Contains 1.1 H2SO4
Lot No: SA8344070
Expires: 12/10/19
See Safety Data Sheet (SDS)

Place Preservation (If A)

Contains 1.1 H2SO4
Lot No: SA8344070
Expires: 12/10/19
See Safety Data Sheet (SDS)

Duplicate

Field ID G1WA0004_DUP

Contains: 1:1 H₂SO₄
Lot No : SA8344070
Expires: 12/10/19
See Safety Data Sheet (SDS)

[illegible]

FB_0710201

Contains: 1:1 H₂SO₄
Lot No.: SA8344070
Expires: 12/10/19
See Safety Data Sheet (SDS)

[illegible]WIN ID /
FILED ID

Location **Lake Arrowhead at boat dock**
at Turtle Crk Ln near outlet

Date:

2/10/19

(Initials/Date)

(Initials/Date)

(Initials/Date)

Request Number: RQ-2019-07-08-19
Tallahassee Lakes

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Customer: WAS-SECT
Project ID: SMP

Requester: Curtis Musson

Field Report Prepared By: Blake Spencer

Collected By: Blake Spencer & Will Losley

Sampling Agency: FNEP

Location		WIN ID / FILED ID	Matrix (type, e.g., Salt, Fresh, etc)	Temp (C)	pH	Salinity (ppt)	Collection (comp begin or grab)	Time	Composite end	Time	Bottle Group(s)
Field ID	WIN ID / FILED ID	G1WA0043									
WIN/STORET #	Location	Lake Tom John Middle									
Latitude	dd dms	Longitude									
Location	WIN ID / FILED ID	G1WA0041									
Field ID	WIN ID / FILED ID	G1WA0041									
WIN/STORET #	Location	Upper Dianne Lake Middle									
Latitude	dd dms	Longitude									
Location	WIN ID / FILED ID	G1WA0040									
Field ID	WIN ID / FILED ID	G1WA0040									
WIN/STORET #	Location	Lower Dianne Lake Middle									
Latitude	dd dms	Longitude									
Location	WIN ID / FILED ID	G1WA0054									
Field ID	WIN ID / FILED ID	G1WA0054									
WIN/STORET #	Location	Pine Hill Lake Middle									
Latitude	dd dms	Longitude									

Matrix (type, e.g., Salt, Fresh, etc)		Temp (C)	pH	Salinity (ppt)	Collection (comp begin or grab)	Time	Composite end	Time	Bottle Group(s)
Temp (C)	31.8	8.4	0.04	0.04	0.04	0.04	0.04	0.04	A
pH	8.4	7.0	0.04	0.04	0.04	0.04	0.04	0.04	A
Salinity (ppt)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	A
Collection (comp begin or grab)	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	A
Time	1139	1055	112.1	6.3	112.1	6.3	112.1	6.3	A
Composite end	1139	1055	112.1	6.3	112.1	6.3	112.1	6.3	A
Time	1139	1055	112.1	6.3	112.1	6.3	112.1	6.3	A
Bottle Group(s)									A

Relinquished By:

Date/Time

7/10/19 1403

Shipping Method

Hand Delivered

Number of Coolers Shipped:

2

Received By:

SR

Date/Time

7-10-19 2:02

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:	FILTER-ICE	Enter Number of Bottles Sent to Lab	5
	W-PO4-F						
Group: B	Bottle Type:	P-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	ALKALINITY						
	TURBIDITY						
	W-CL-IC						
	W-COLOR						
	W-F						
	W-SO4-IC						
	W-TDS						
	W-TSS						
Group: B	Bottle Type:	BP-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	CHLSUITE-W						
Group: B	Bottle Type:	P-500ML	# of Bottles: 1	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	1
	W-NH3						
	W-NO2NO3						
	W-S-A-TP						

Group: B	Bottle Type:	P-500ML	# of Bottles: 1	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab	1
	W-TKN					
	W-TOC					
Group: B	Bottle Type:	P-125ML	# of Bottles: 1	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab	1
	W-PO4-F					
Group: C	Bottle Type:	P-1L	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab	1
	ALKALINITY					
	TURBIDITY					
	W-CL-IC					
	W-COLOR					
	W-F					
	W-SO4-IC					
	W-TDS					
	W-TSS					
Group: C	Bottle Type:	BP-1L	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab	1
	CHLSUITE-W					
Group: C	Bottle Type:	P-500ML	# of Bottles: 1	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab	1
	W-NH3					
	W-NO2NO3					
	W-S-A-TP					
	W-TKN					
	W-TOC					
Group: C	Bottle Type:	P-125ML	# of Bottles: 1	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab	1
	W-PO4-F					

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

Boldly "X" this box if there are qualified data on this page.

Meter ID: Pro ASS 145104543

RQ- 2019-07-08

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.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification _____

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp °C	Baro-meter mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Blake Spencer	7/10/19	0719	20.9	755.6	8.9	8.88	99.5	—	—	P / F	L / F
ICV	Blake Spencer	7/10/19	0720	21.0	755.7	8.9	8.90	100.0	—	—	P / F	L / F
CCV	Blake Spencer	7/10/19	1341	26.3	755.1	8.01	8.28	102.7	—	—	P / 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 (Pro DSS 0.75 to 1.50); 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.	Blake Spencer	7/10/19	0724	190618F	06/2020	1000	1000	P / F	L / F
ICV	Blake Spencer	7/10/19	0725	190618F	06/2020	1000	998	P / F	L / F
CCV	Blake Spencer	7/10/19	1345	2808884	7/2020	100	101.5	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	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Blake Spencer	7/10/19	0728	180621F	01/2020	7.01	22.2	7.01	-39.9	P / F	L / F
Calibr.	Blake Spencer	7/10/19	0730	190405B	10/2020	4.00	22.1	4.00	146.6	P / F	L / F
Calibr.	Blake Spencer	7/10/19	0733	180621F	01/2020	10.03	22.2	10.03	196.6	P / F	L / F
ICV	Blake Spencer	7/10/19	0735	180621F	01/2020	10.03	22.2	10.03	196.2	P / F	L / F
CCV	Blake Spencer	7/10/19	1450	190405B	10/2020	4.00	23.6	4.05	143.5	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 $+180 \pm 50$;

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)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification: _____

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: _____; Date of last 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	Blake Spencer	7/10/19	0737	0.00	0.00	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:

Cooler Packing Worksheet for Request: RQ-2019-07-08-19

Tallahassee Lakes

Ship Cooler On: 7/5/2019

Customer/Project: WAS-SECT/SMP

Assigned To: REYNOLDS_T

Requester: Curtis Musson

Priority: 3

850-245-8453

2600 Blair Stone Rd

Tallahassee, FL 32399

Attn: Curtis Musson

Comments:

No preservatives needed.

Group A: Nutrients x5

WBIDs: 546A, 546B, 564A, 564B, 647A

Group B: Nutrient QC Blank

Group C: Nutrient QC DUP

Packing Notes:

No FedEx Labels

No Trash Bags

Requested Analyses:

Bottle Group: A

of Sites: 5

Container ID: P-1L

Qty: 5

Preservation: ICE

Lot # 00073852

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 using a maximum of 250 mL of sample

Container ID: BP-1L

Qty: 5

Preservation: ICE

Lot # 1248230

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 # 00073854

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: FILTER-ICE

Lot # 00073850

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

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

Bottle Group: B

of Sites: 1

Container ID: P-1L

Qty: 1 Preservation: ICE

Lot # 00073852

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 using a maximum of 250 mL of sample

Container ID: BP-1L

Qty: 1 Preservation: ICE

Lot # 1248230

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: P-500ML

Qty: 1 Preservation: ICE And H2SO4

Lot # 00073854

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: 1 Preservation: FILTER-ICE

Lot # 00073850

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

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

Bottle Group: C

of Sites: 1

Container ID: P-1L

Qty: 1 Preservation: ICE

Lot # 00073852

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 using a maximum of 250 mL of sample

Container ID: BP-1L

Qty: 1 Preservation: ICE

Lot # 1248230

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: P-500ML

Qty: 1 Preservation: ICE And H2SO4

Lot # 00073854

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: 1 Preservation: FILTER-ICE

Lot # 00073850

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

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

Cooler Packed By: Tyler Reynolds

Number of Coolers: 2

Date: 07/01/19

Kit must also include:

- ☒ Field Sheets
- ☒ Temperature Control Bottle
- ☒ FedEx Bills, if applicable
- ☒ Plastic Bags/Zip Ties
- ☒ Acid Labels (sets of 24)

If Preservation Included:

ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____

PLEASE RETURN ALL COOLERS FOR RQ-2019-07-08-19