FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified? (Yes) / No

WIN Station Name: Lower Dianne Lake Middle **Date:** 05/29/2019 (mm/dd/yyyy)

WIN/ Field ID: G1WA0040 ✓ **WBID:** 546A **Latitude:** 30.59355 (Decimal Degrees)

County: Leon **ORG ID:** 21FLWQA **Longitude:** -84.23534 (Decimal Degrees)

Receiving Body of Water: Upper Dianne Lake Middle **RQ-** 2019-03-04-29

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Curtis Musson		✓		✓	✓
Will Lasley	✓		✓		

Sampling Equipment
- ☑ Sample Container ☐ Van Dorn ☐ Pole
- ☐ Carboy ☑ Syringe
- ☐ Dipper ☐ Other
- Depth Measured with Sonar #1
- Equipment ID

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

Water Level: Dry/ Pooled/ Low / (Normal) / High / 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 Low

Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPTh)	Sp COND (µmhos/cm)	Temp. (C°)
EST	0846 ✓	2.6 ✓	0.3 ✓	1.7 ✓	7.62 J ✓	103.0 J ✓	8.3 ✓	0.04 ✓	90 ✓	31.3 ✓
CEN	0848		2.1 ✓		7.48 J ✓	101.2 J ✓	8.1 ✓	0.04 ✓	90 ✓	31.3 ✓

Biological Samples Collected: (None) 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 ☑ H_2SO_4	834470	12/10/19	☑ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO_3			☑ <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-E8321-DI ☐ W-E8321-MS	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-E8321-DI ☐ W-PCL-SQ-R ☐ WE8321-MS ☐ W-CARB-AA	☐ Ice			
Phytoplankton	☐ DTY-QN-C ☐ PKD-QN-C	☐ Ice			

Notes:

WIN ID / FILED ID → G1WA0040

Location Lower Dianne Lake Middle

Signature: [signature] **Date:** 5/29/19

LIMS EVENT ID: WAS-SECT-2019-05-29-01 **WIN Import ID:**

Enter Field Parameters, Verify Station ID In LIMS DMT: [illegible] 6/10/19 (Initials/Date) **QC Station ID, Field Parameters In LIMS DMT:** AWM 6/14/19 (Initials/Date)

Scan/Save Field Sheets (Initials/Date) **Migrate Data to WIN:** (Initials/Date) **Verify Data In WIN:** (Initials/Date)

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

Boldly "X" this box if there is quality control data on this page.

Meter ID: Bio #2 RQ- 2019-03-04-69 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.	Curtis Musson	5/29/19	7:48	22.44	8.677	8.67	100.0	66.5	—	P / F	L / F
ICV	Curtis Musson	5/29/19	7:49	22.44	8.677	8.67	100.0	67.6	—	P / F	L / F
CCV	Curtis Musson	5/29/19	12:53	21.28	8.863	8.49	95.7	69.6	—	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; 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 µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	Curtis Musson	5/29/19	717	180927D	10/2019	500	500	P / F	L / F
ICV	Curtis Musson	5/29/19	719	180927D	10/2019	500	500	P / F	L / F
CCV	Curtis Musson	5/29/19	1250	2808884	7/2020	100	103	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.	Curtis Musson	5/29/19	7:22	180621E	01/2020	7.0	7.00	-18.4	P / F	L / F
Calibr.	Curtis Musson	5/29/19	7:25	190405B	04/2020	4.0	4.01	157	P / F	L / F
Calibr.	Curtis Musson	5/29/19	729	180621F	01/2020	10.01	9.98	-186	P / F	L / F
ICV	Curtis Musson	5/29/19	7:30	180621F	01/2020	10.01	9.97	-186	P / F	L / F
CCV	Curtis Musson	5/29/19	12:47	180621E	01/2020	7.02	7.15	-23	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	Curtis Musson	5/29/19	721	0.00	0.00	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:

25.11°C

Form effective October 1, 2017

Request Number: RQ-2019-03-04-69

Tallahassee Lakes

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: WAS-SECT

Project ID: SMP

Requester: Curtis Musson

Collected By: Curtis Musson

Field Report Prepared By: Curtis Musson / Will Lasley

Sampling Agency: FDEP

Location: Upper Dianne Lake Middle
WIN ID / FILED ID: G1WA0041
Field ID:
WIN/STORET #:
Latitude: ☐ dd ☐ dms
Longitude: ☐ dd ☐ dms

☐ Comp ☑ Grab | Collection (comp begin or grab) Date 5/29/18 Time 0931 | Eastern / ~~Central~~ | Composite end Date — Time — | Bottle Group(s) (See pg 2): B

Matrix (type, e.g., Salt, Fresh, etc): Fresh | Diss. Oxygen 120.3 ☐ mg/L ☑ % sat | Total Res. Chlorine (mg/L) —

Temp (C) 31.6 | pH 9.1 | Sample Depth 0.3 ☐ ft ☑ m | Sp. Conductance (umho/cm) 101

Salinity (ppt) 0.05 | Comments

Location: Lower Dianne Lake Middle
WIN ID / FILED ID: G1WA0040
Field ID:
WIN/STORET #:
Latitude: ☐ dd ☑ dms
Longitude: ☐ dd ☐ dms

☐ Comp ☑ Grab | Collection (comp begin or grab) Date 5/29/18 Time 0846 | Eastern / ~~Central~~ | Composite end Date — Time — | Bottle Group(s): B

Matrix (type, e.g., Salt, Fresh, etc): Fresh | Diss. Oxygen 103.0 ☐ mg/L ☑ % sat | Total Res. Chlorine (mg/L) —

Temp (C) 31.3 | pH 8.3 | Sample Depth 0.3 ☐ ft ☑ m | Sp. Conductance (umho/cm) 90

Salinity (ppt) 0.04 | Comments

Location: Pine Hill Lake Middle
WIN ID / FILED ID: G1WA0054
Field ID:
WIN/STORET #:
Latitude: ☐ dd ☐ dms
Longitude: ☐ dd ☐ dms

☐ Comp ☑ Grab | Collection (comp begin or grab) Date 5/29/18 Time 1012 | Eastern / ~~Central~~ | Composite end Date — Time — | Bottle Group(s): B

Matrix (type, e.g., Salt, Fresh, etc): Fresh | Diss. Oxygen 120.9 ☐ mg/L ☑ % sat | Total Res. Chlorine (mg/L) —

Temp (C) 31.6 | pH 8.7 | Sample Depth 0.3 ☐ ft ☑ m | Sp. Conductance (umho/cm) 57

Salinity (ppt) 0.03 | Comments

Location: Lake Arrowhead at boat dock at Turtle Crk Ln near outlet
WIN ID / FILED ID: G1WA0004
Field ID:
WIN/STORET #:
Latitude: ☐ dd ☐ dms
Longitude: ☐ dd ☐ dms

☐ Comp ☑ Grab | Collection (comp begin or grab) Date 5/29/18 Time 1047 | Eastern / ~~Central~~ | Composite end Date — Time — | Bottle Group(s): B

Matrix (type, e.g., Salt, Fresh, etc): Fresh | Diss. Oxygen 103.5 ☐ mg/L ☑ % sat | Total Res. Chlorine (mg/L) —

Temp (C) 31.8 | pH 7.7 | Sample Depth 0.3 ☐ ft ☑ m | Sp. Conductance (umho/cm) 85

Salinity (ppt) 0.04 | Comments

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Curtis Musson	5/29/19 12:25	Drop off	2		5/29/19 1220

Request Number: RQ-2019-03-04-69

Tallahassee Lakes

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: WAS-SECT

Project ID: SMP

Requester: Curtis Musson

Collected By: Will lasley / Curtis Musson cm

Field Report Prepared By: Will Lasley

Sampling Agency: FDEP - WQAP

Field	Value
Location	Lake Tom John Middle
WIN ID / FILED ID	G1WA0043
Field ID	
WIN/STORET #	
Latitude (☐ dd ☐ dms)	
Longitude (☐ dd ☐ dms)	
☐ Comp ☑ Grab	Grab
Collection (comp begin or grab) Date	5/29/18
Time	11:31
Eastern / Central	Eastern (circled)
Composite end Date	—
Composite end Time	—
Bottle Group(s) (See pg 2)	B
Matrix (type, e.g., Salt, Fresh, etc)	Fresh
Diss. Oxygen (☐ mg/L ☑ % sat)	108.6
Total Res. Chlorine (mg/L)	—
Temp (C)	31.6
pH	7.2
Sample Depth (☐ ft ☑ m)	0.3
Sp. Conductance (umho/cm)	75
Salinity (ppt)	0.03
Comments	

(Three additional blank sample blocks, with the same fields: Location, Field ID, WIN/STORET #, Latitude ☐ dd ☐ dms, Longitude ☐ dd ☐ dms, ☐ Comp ☐ Grab, Collection (comp begin or grab) Date, Time, Eastern/Central, Composite end Date, Time, Bottle Group(s), Matrix (type, e.g., Salt, Fresh, etc), Diss. Oxygen ☐ mg/L ☐ % sat, Total Res. Chlorine (mg/L), Temp (C), pH, Sample Depth ☐ ft ☐ m, Sp. Conductance (umho/cm), Salinity (ppt), Comments)

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
CM/WL	5/29/18	HD	2		5/29/18 1220

Group	Bottle Type		# of Bottles	Preservative		Enter Number of Bottles Sent to Lab
A	P-1L	ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS	5	ICE		0
A	BP-1L	CHLSUITE-W	5	ICE		0
A	P-500ML	W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC	5	ICE And H2SO4		0
A	P-125ML	W-PO4-F	5	FILTER-ICE		0
B	P-1L	ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS	5	ICE		5
B	BP-1L	CHLSUITE-W	5	ICE		5
B	P-250ML-WO-THI	ECOLI-18QT	5	ICE		5
B	P-500ML		5	ICE And H2SO4		5

Group: B 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

Lot # SA 8344070
Exp. 12/10/2019

Group: B Bottle Type: P-125ML # of Bottles: 5 Preservative: FILTER-ICE **Enter Number of Bottles Sent to Lab** 5

W-PO4-F

Cooler Packing Worksheet for Request: RQ-2019-03-04-69
Tallahassee Lakes
Ship Cooler On: 3/1/2019
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:
~~Group A: Nutrients x5~~
WBIDs: ~~546A, 546B, 564A, 564B, 647A~~ Completed 4/10/2019
~~Lakes~~

Group B: ~~Killearney Chain of Lakes Outlet, 647~~L 5-29-2019
Nutrients, E. coli

Packing Notes:
No FedEx Labels
No Trash Bags
1 - case of sulfuric acid
2 - sets of sulfuric acid labels

Requested Analyses:

Bottle Group: A **# of Sites: 5**

Container ID: P-1L **Qty: 5** **Preservation: ICE** **Lot #** 00071991
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 using a maximum of 250 mL of sample

Container ID: BP-1L **Qty: 5** **Preservation: ICE** **Lot #** L246281
Description: Brown Plastic Bottle 1L

Analysis	Description

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

Container ID: P-500ML **Qty: 5** **Preservation: ICE And H2SO4** **Lot #** 00073297

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: 5** **Preservation: FILTER-ICE** **Lot #** 00072954

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: 5

Container ID: P-1L **Qty: 5** **Preservation: ICE** **Lot #** 00071991

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 using a maximum of 250 mL of sample

Container ID: BP-1L **Qty: 5** **Preservation: ICE** **Lot #** 1246281

Description: Brown Plastic Bottle 1L

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

120-SR 10-SR

Container ID: ~~P-250ML-WO-THI~~ **Qty:** ~~5~~ **Preservation: ICE** **Lot #** 6A20-TN

Description: ~~250 ml~~ **Sterilized no tablet**

120-SR

Replacement containers

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

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Container ID: P-500ML **Qty: 5** **Preservation: ICE And H2SO4** **Lot #** 00073297

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: 5** **Preservation: FILTER-ICE** **Lot #** 00072954

Description: Plastic Bottle 125 mL

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

Cooler Packed By: SR Number of Coolers: 3 Date: 2-25-19

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 Sulfuric Acid	Exp 12-10-19	Lot # SA8344070
ID	Exp	Lot #
ID	Exp	Lot #
ID	Exp	Lot #
ID	Exp	Lot #

PLEASE RETURN ALL COOLERS FOR RQ-2019-03-04-69