



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

February 2016

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Data Qualified?
Yes / No

STORET Station Name: Upper Dianne Lake Middle

Date: 03/29/2016

(mm/dd/yyyy)

STORET Station ID: G1WA0041

Latitude: 30.59986

(Decimal Degrees)

WBID: 546B

RQ - 2016-03-28-12

ORG ID: 21FLWQA

Longitude: -84.23778

(Decimal Degrees)

Receiving Body of Water: Lake Monkey Business

Field ID: G1WA0041

County: Leon

Sampling Team Members				WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Curtis Musson				X	X			
Ben Ralys								
Robert Wiwi					X	X	X	

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 / Low / Normal / <u>High</u> / Flooded						Matrix: <u>Fresh</u> / Marine / DI					
Meter ID# Biology 2			Photos: <u>Yes</u> / No			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 (umhos/cm)	Temp. (C°)	
EST	1000	0.3	1.8	7.58	83.9	6.88	0.03	1.6	62	20.35	
CEN	1010	1.3		7.73	85.6	6.87	0.03		62	20.27	

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 5113230	04/23/2016	☒ <2			
Metals	☐ W-ICPMS ☐ W-ICP						☐ Ice ☐ HNO2			☐ <2			
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 um Filter						☒ Ice	Place Preservative Sticker(s) Here (If Available)					
Chlorophyll	☒ CHLSUITE-W						☒ Ice						
BOD	☒ BOD-UNIN						☒ Ice						
Physical/Aggregate (Kit A/C)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CH-IC / W-COLOR / W-SO4-IC / W-TDS						☒ Ice						
Physical/Aggregate (Kit B/D)	☐ Alkalinity / W-F / W-TSS / TURBIDITY						☐ Ice						
Macroinvertebrates	☐ MI-FW-QLDC						☐ Formalin						
Microbiology	☐ E Coli ☐ F Coli ☐ Enteroc ☐ QPCR						☐ Ice						
Periphyton	☐ ALGAE-ID						☐ Ice						
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PC-AA-SF ☐ W-UHERB-AA ☐ W-GLYPH						☐ Ice ☐ Other						

Notes:						 G1WA0041 29 March 2016 Upper Dianne Lake Middle					
Signature: <u>Curtis Musson</u>						Date: <u>3/29/2016</u>					

Field Parameters Entered into LIMS: <u>CM 3/31/2016</u>						Field Parameters QC in LIMS: <u>BR 4/8/16</u>					
Date Migrated to STORET: _____						Field Sheets Scanned/Saved: <u>CM 7-25-16</u>					

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- 2016-03-28-12

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 03/04/2016

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.	Curtis Musson	3/24/16	0727	21.35	8.85	8.85	100.0	41.0	—	Pass	LAB
ICV	Curtis Musson	3/29/16	0729	21.36	8.85	8.85	100.0	41.0	—	Pass	LAB
CCV	Ben Ralys	3/29/16	3:05	21.33	8.86	8.82	99.5	42.0	—	Pass	Lab
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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	Curtis Musson	3/29/16	0732	CC14162	10/15/2016	996	996	P	L
ICV	Curtis Musson	3/29/16	0733	CC14162	10/15/16	996	997	P	LAB
CCV	Ben Ralys	3/29/16	3:06	CC13882	7/15/2016	101.1	100	P	Lab
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.	Curtis Musson	3/24/16	0736	153035	07/2017	7.0	7.00	-6.6	P	LAB
Calibr.	Curtis Musson	3/29/16	0739	154634	07/2017	4.0	4.00	168.5	P	LAB
Calibr.						10.0				
ICV	Curtis Musson	3/29/16	0745	146934	10/2016	10.0	10.12	-187.2	P	LAB
CCV	Ben Ralys	3/29/16	3:08	154634	7/2017	4.0	4.09	164.7	P	Lab
CCV	Ben Ralys	3/29/16								

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU; mV pH7 Range 0 ± 50 ;

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

mV pH 10 Range -180 ± 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

Request Number: RQ-2016-03-28-12

Killearn Lakes Chain of Lakes

Florida Department of Environmental Protection Central Laboratory Submittal Form

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last revised Nov 10, 2015

Customer: WQAP

Project ID: SMP

Requester: Benjamin Ralys

Field Report Prepared By:

Robert Wiwi

Collected By:

Curtis Musson, Robert Wiwi

Sampling Agency:

Location Lake Monkey Business Middle		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 3/29/16 Time 9:00		Eastern Central	Composite end Date Time		Bottle Group(s) (See pg 2) A
Field ID G1WA0036		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 84.5	☐ mg/L ☒ % sat	Total Res. Chlorine (mg/L)		
STORET # G1WA0036		Temp (C) 20.52	pH 6.89	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 61		
Latitude 30.60779	☒ dd ☐ dms	Longitude -84.23076	☒ dd ☐ dms	Salinity (ppt) 0.03	Comments			
Location Upper Dianne Lake Middle		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 3/29/16 Time 10:00		Eastern Central	Composite end Date Time		Bottle Group(s) A
Field ID G1WA0041		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 83.9	☐ mg/L ☒ % sat	Total Res. Chlorine (mg/L)		
STORET # G1WA0041		Temp (C) 20.35	pH 6.88	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 62		
Latitude 30.59986	☒ dd ☐ dms	Longitude -84.23778	☒ dd ☐ dms	Salinity (ppt) 0.03	Comments			
Location Lower Dianne Lake Middle		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 3/29/16 Time 11:05		Eastern Central	Composite end Date Time		Bottle Group(s) A
Field ID G1WA0040		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 86.7	☐ mg/L ☒ % sat	Total Res. Chlorine (mg/L)		
STORET # G1WA0040		Temp (C) 20.56	pH 6.92	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 62		
Latitude 30.59355	☒ dd ☐ dms	Longitude -84.23534	☒ dd ☐ dms	Salinity (ppt) 0.03	Comments			
Location Petty Gulf Lake at Deerlake Rd. East		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 3/29/16 Time 11:45		Eastern Central	Composite end Date Time		Bottle Group(s) A
Field ID G1WA0016		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 87.5	☐ mg/L ☒ % sat	Total Res. Chlorine (mg/L)		
STORET # G1WA0016		Temp (C) 20.50	pH 6.85	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 55		
Latitude 30.58915	☒ dd ☐ dms	Longitude -84.22637	☒ dd ☐ dms	Salinity (ppt) 0.02	Comments			

Relinquished By: Curtis Musson	Date/Time 3/29/16	Shipping Method	Received By:	Date/Time	Relinquished By:	Date/Time	Received By:	Date/Time
	2:49							3/29/16/2:49

Killearn Lakes Chain of Lakes

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last revised Nov 10, 2015

Requester: Benjamin Ralys

Field Report Prepared By:

Collected By:

Sampling Agency:

Location Pine Hill Lake Middle		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 3/29/16 Time 12:10		Eastern Central		Composite end Date Time		Bottle Group(s) (See pg 2)	
Field ID G1WA0054		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 91.7		☐ mg/L ☒ % sat		Total Res. Chlorine (mg/L)		A	
STORET # G1WA0054		Temp (C) 20.53		pH 6.82		Sample Depth 0.3		☐ ft ☒ m			
Latitude 30.58492		☒ dd ☐ dms		Longitude -84.21950		☒ dd ☐ dms		Salinity (ppt) 0.02			
Location Lake Tom John Middle		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 3/29/16 Time 13:10		Eastern Central		Composite end Date Time		Bottle Group(s)	
Field ID G1WA0043		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 90.2		☐ mg/L ☒ % sat		Total Res. Chlorine (mg/L)		A	
STORET # G1WA0043		Temp (C) 20.76		pH 7.06		Sample Depth 0.3		☐ ft ☒ m			
Latitude 30.54484		☒ dd ☐ dms		Longitude -84.21478		☒ dd ☐ dms		Salinity (ppt) 0.03			
Location Killbuck Chain of Lakes Outlet at Velda Dairy Rd. across from Mint Hill Ct.		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 3/29/16 Time 14:00		Eastern Central		Composite end Date Time		Bottle Group(s)	
Field ID G1WA0015		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 76.1		☐ mg/L ☒ % sat		Total Res. Chlorine (mg/L)		A	
STORET # G1WA0015		Temp (C) 19.29		pH 6.59		Sample Depth 0.2		☐ ft ☒ m			
Latitude		☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Salinity (ppt) 0.02			
Location		☐ Comp ☐ Grab		Collection (comp begin or grab) Date Time		Eastern Central		Composite end Date Time		Bottle Group(s)	
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☐ mg/L ☐ % sat		Total Res. Chlorine (mg/L)			
STORET #		Temp (C)		pH		Sample Depth		☐ ft ☐ m			
Latitude		☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Salinity (ppt)			

Relinquished By:	Date/Time	Shipping Method	Received By:	Date/Time	Relinquished By:	Date/Time	Received By:	Date/Time
							<i>[Signature]</i>	3-29-11 / 10:11

d By: SL Date/Time 3-29-16 / 2:40

Date of Request: 07-MAR-2016
 Created By: RALYS_B On: 07-MAR-2016
 Modified By: WATTS_J On: 14-MAR-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: S
 Criminal Investigation: NO
 Chemistry Request Reviewed By: WATTS_J On: 14-MAR-2016
 Biology Request Reviewed By: SWANSON_C On: 07-MAR-2016
 Sampling Kit Required: YES Ship on: 21-MAR-2016
 Sampling Kit Shipped: YES On: 22-MAR-2016
 Sampling Kit Packed By: MANLEY_J
 Preservatives Needed: YES
 Date to Receive Samples: 29-MAR-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: 1 - case of sulfuric acid

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-NO2	Template: DEFAULT	(EPA 353.2 Rev. 2.0) Nitrite in aqueous matrices as mg N/L
Nitrite-N		
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: P-1L	Number of Bottles: 6	Preserved With: ICE
BOD-UNIN	Template: DEFAULT	(SM 5210 B) BOD, NOT nitrogen-inhibited
Biochemical Oxygen Demand-5 Day		
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

Bottle Group A (Water) With 6 Samples:

Bottle Type: P-500ML	Number of Bottles: 6	Preserved With: ICE And H2SO4
W-NH3	Template: DEFAULT	(EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L
Ammonia-N		
W-NO2NO3	Template: DEFAULT	(EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L
NO2NO3-N		
W-S-A-TP	Template: DEFAULT	(EPA 365.1 Rev. 2.0) Total Phosphorus in aqueous matrices as mg P/L
Total-P		
W-TKN	Template: DEFAULT	(EPA 351.2 Rev. 2.0) Total Kjeldahl Nitrogen in aqueous matrices
Kjeldahl Nitrogen		
W-TOC	Template: DEFAULT	(SM 5310 B-00) Nonpurgeable Organic Carbon in aqueous matrices
Organic Carbon		
Bottle Type: P-125ML	Number of Bottles: 6	Preserved With: ICE-FLTR
W-PO4-F	Template: DEFAULT	(EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L
O-Phosphate-P		

Cooler Packing Worksheet for Request: RQ-2016-03-28-12

Killearn Lakes Chain of Lakes

Ship Cooler On: 3/14/2016

Customer/Project: WQAP/SMP

Requester: Benjamin Ralys

Priority: 3

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

Comments:

1 - case of sulfuric acid

Requested Analyses:

Bottle Group: A

of Sites: 6

Container ID: P-1L

Qty: 6 Preservation: ICE

Lot # 00064196

Description: Plastic Bottle 1L

Analysis

ALKALINITY
TURBIDITY
W-CL-IC
W-COLOR
W-F
W-NO2
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)
Nitrite in aqueous matrices as mg N/L
Total Dissolved Solids in aqueous matrices
Total Suspended Solids in aqueous matrices

Container ID: P-1L

Qty: 6 Preservation: ICE

Lot # 00064196

Description: Plastic Bottle 1L

Analysis

BOD-UNIN

Description

BOD, NOT nitrogen-inhibited

Container ID: BP-1L

Qty: 6 Preservation: ICE

Lot # 1168614

Description: Brown Plastic Bottle 1L

Analysis

Description

Container ID: P-500ML

Qty: 6 Preservation: ICE And H2SO4

Lot # 00063982

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: 6 Preservation: ICE-FLTR

Lot # 00064632

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

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

Cooler Packed By: J. Manley

Date: 3/22/16

DEP Cooler ID #(s): 2

Kit must also include:

- ☒ Field Sheets
- ☒ Temperature Control Bottle (1 per cooler)
- ☒ FedEx Bills, if applicable (1 per cooler)
- ☒ Plastic Bags
- ☒ Zip Ties

If Preservation Included:

ID Sulfuric 9/16/16 Exp.

Lot # SA 5259020

ID _____

Lot # _____

ID _____

Lot # _____

ID _____

Lot # _____

ID _____

Lot # _____

PLEASE RETURN ALL COOLERS FOR RQ-2016-03-28-12