



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

June 2016

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Data Qualified?

Yes / No

STORET Station Name: Pine Hill Lake Middle

Date: 07/13/2016

(mm/dd/yyyy)

STORET Station ID: G1WA0054

WBID: 564B

Latitude: 30.58492

(Decimal Degrees)

County: Leon

RQ - 2016-07-11-27

ORG ID: 21FLWQA

Longitude: -84.2195

(Decimal Degrees)

Receiving Body of Water: UNNAMED DRAIN (WBID 564)

Field ID: G1WA0054

Sampling Team Members				WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment			
Robert Wiwi									☒ Sample Container	☐ Van Dorn	☐ Pole	
Justin Wallheiser									☐ 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>#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	10:55	0.3	1.3	7.40	100.1	7.43	0.02		99	31.25		
CEN								0.9				
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		6133010		8/12/17	☒ <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-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						
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-6133010

EXP: 05/12/17

Warning!

See SDS

Sticker(s) Here (available)

Notes:



G1WA0054 13 July 2016

Pine Hill Lake Middle

Signature:

Date:

Field Parameters Entered into LIMS: Cm 7-22-16
(Initials/Date)

Field Parameters QC in LIMS: Cm 7-22-16
(Initials/Date)

Date Migrated to STORET: Cm 7-22-16
(Initials/Date)

Field Sheets Scanned/Saved: Cm 7-22-16
(Initials/Date)

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 name.

Meter Biology 2

RQ- 2016-07-11-27

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 06/03/2016

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.	R. Wini	7/13/16	7:12	22.7	8.6	8.6	100	47.1	—	P	L
ICV	R. Wini	7/13/16	7:14	22.6	8.6	8.7	100	47.1	—	P	L
CCV	R. Wini	7/13/16	5:35	29.6	7.6	7.6	99.8	48.2	—	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.	R. Wini	7/13/16	7:17	160330D	4/17	1000	1000	P	L
ICV	R. Wini	7/13/16	7:19	160330D	4/17	1000	1000	P	L
CCV	R. Wini	7/13/16	15:40	2601533	12/2017	100	102	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.	R. Wini	7/13/16	7:21	160330B	10/17	7.0	7.0	-20.6	P	L
Calibr.	R. Wini	7/13/16	7:24	160330A	4/17	4.0	4.0	158.6	P	L
Calibr.	R. Wini	7/13/16	7:26	160330C	10/17	10.0	10.0	79.0	P	L
ICV	R. Wini	7/13/16	7:28	160330A	4/17	4.0	4.1	155.6	P	L
CCV	Saskia Walke	7/13/16	13:42	160330C	10/17	10.0	10.0	-198.0	P	L
CCV										

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-2016-07-11-27

Lower Dianne Lake, Upper Dianne Lake, Lake Tom
John, Pine Hill Lake, Lake Monkey Business and
Ochlockonee River

Customer: WQAP

Project ID: SMP

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Requester: Benjamin Ralys

Collected By:

Field Report Prepared By:

Sampling Agency:

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last revised Apr 7, 2016

Location Lake Tom John Middle		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 7/13/2016 Time 8:35 Eastern Central		Composite end Date — Time —		Bottle Group(s) (See pg 2)	
Field ID GIWA0043		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 5.44		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L) —	
STORET # GIWA0043		Temp (C) 31.17		pH 6.88		Sample Depth 0.3		Sp. Conductance (umho/cm) 67	
Latitude 30.54484		☒ dd ☐ dms		Longitude -84.21478		☒ dd ☐ dms		Salinity (ppt) 0.03	
Location Upper Dianne Lake Middle		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 7/13/2016 Time 11:50 Eastern Central		Composite end Date — Time —		Bottle Group(s)	
Field ID GIWA0041		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 6.86		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L) —	
STORET # GIWA0041		Temp (C) 31.85		pH 7.34		Sample Depth 0.3		Sp. Conductance (umho/cm) 57	
Latitude 30.59986		☒ dd ☐ dms		Longitude -84.23718		☒ dd ☐ dms		Salinity (ppt) 0.02	
Location Lower Dianne Lake Middle		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 7/13/2016 Time 10:10 Eastern Central		Composite end Date — Time —		Bottle Group(s)	
Field ID GIWA0040		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 6.66		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L) —	
STORET # GIWA0040		Temp (C) 31.41		pH 7.46		Sample Depth 0.3		Sp. Conductance (umho/cm) 72	
Latitude 30.59355		☒ dd ☐ dms		Longitude -84.23534		☒ dd ☐ dms		Salinity (ppt) 0.03	
Location Pine Hill Lake Middle		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 7/13/2016 Time 10:55 Eastern Central		Composite end Date — Time —		Bottle Group(s)	
Field ID GIWA0054		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 7.40		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L) —	
STORET # GIWA0054		Temp (C) 31.28		pH 7.43		Sample Depth 0.3		Sp. Conductance (umho/cm) 49	
Latitude 30.58492		☒ dd ☐ dms		Longitude -84.2195		☒ dd ☐ dms		Salinity (ppt) 0.02	

Relinquished By: [Signature]	Date/Time 7/13/16 15:18	Shipping Method	Number of Coolers Shipped:	Received By: [Signature]	Date/Time 7-13-16 / 15:18
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Cooler Packing Worksheet for Request: RQ-2016-07-11-27
Lower Dianne Lake, Upper Dianne Lake, Lake Tom John, Pine Hill Lake, Lake Monkey

Ship Cooler On: 6/27/2016
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:

No preservatives needed.

Bottle Group A: freshwater kits including metals

Bottle Group B: freshwater kits no metals

Requested Analyses:

Bottle Group: A

of Sites: 2

Container ID: P-1L

Qty: 2 Preservation: ICE

Lot # 60064938

Description: Plastic Bottle 1L

Analysis

ALKALINITY
TURBIDITY
W-CL-IC
W-COLOR
W-F
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)
Total Dissolved Solids in aqueous matrices
Total Suspended Solids in aqueous matrices

Container ID: BP-1L

Qty: 2 Preservation: ICE

Lot # 1172350

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: P-500ML

Qty: 2 Preservation: HNO3

Lot # 00069521

Description: Plastic Bottle 500 mL

Affix RED nitric acid dot to container.

Analysis

W-ICP

W-ICPMS

Description

Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects

Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects

Container ID: P-500ML

Qty: 2 Preservation: ICE And H2SO4

Lot # 00064521

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: 2 Preservation: ICE-FLTR

Lot # 00065090

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: 5

Container ID: P-1L

Qty: 5 Preservation: ICE

Lot # 00064935

Description: Plastic Bottle 1L

Analysis

ALKALINITY

TURBIDITY

W-CL-IC

W-COLOR

W-F

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)

Total Dissolved Solids in aqueous matrices

Total Suspended Solids in aqueous matrices

Container ID: BP-1L

Qty: 5 Preservation: ICE

Lot # 00067935

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: P-500ML

Qty: 5 Preservation: ICE And H2SO4

Lot # 00064521

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 # 00065090

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

Date: 06/24/16

DEP Cooler ID #(s): 3 coolers

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

PLEASE RETURN ALL COOLERS FOR RQ-2016-07-11-27