



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2016

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Date Qualified?
Yes / No

STORET Station Name: Lake Arrowhead @ boat dock @ Turtle Creek near outlet Date: 2-9-16
(mm/dd/yyyy)

STORET Station ID: GIWA0004 Latitude: 30.568517
(Decimal Degrees)

WBID: 564A RQ: 2016-02-08-09 ORG ID: 21FLWQA Longitude: -84.218058
(Decimal Degrees)

Receiving Body of Water: _____ Field ID: GIWA0004 County: Leon

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Duplicate Collection	Blank Collection
James Albright		X		X			NA/NA	
Ben Relys			X	X	X	X	NA/NA	

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
From Dock	☐ Gasoline Motor

Water Level: Dry / Low / Normal / <u>High</u> / Flooded	Matrix: <u>Fresh</u> / Marine / DI
Meter ID# <u>Bio #7</u> Photos: <u>Yes</u> / <u>No</u> <u>4, N, E, S, W</u>	Tide Falling: Yes / No / <u>NA</u>

Field Sample										
Time Zone	Time	Total Depth (m)	Sample Depth	Temp (°C)	DO (mg/L)	DO (%SAT)	COND (µmhos/cm)	Salinity (ppt)	pH	Secchi Disk (m)
EST	0930	1.25m	0.5m	11.71	9.87	91.2	788	0.39cm	6.54	~0.6m
CEN										Note Very green w/ some redd algae

Biological Samples Collected: <u>None</u> HA SCI LVS RPS LVI Other _____							
Parameter Suite	Parameter Methods			Preservation	Acid Lot#	Expiration	pH Check
Preserved Nutrients	☒ TKN / TP / Nox / NH3 / TOC ☐ Other _____			☒ Ice ☒ H ₂ SO ₄	<u>See below</u>		☒ <2
Metals	☐ W-ICPMS ☐ W-ICP			☐ Ice ☐ HNO ₃			☐ <2
Filtered Nutrients	☒ oP ☒ Field Filtered 0.45 µm Filter			☒ Ice			
Chlorophyll	☒ CHLSUITE-W			☒ Ice			
BOD	☒ BOD-INHB ☒ BOD-UNIN			☒ Ice			
Physical/Aggregate	☒ TSS / Turbidity / Alkalinity / Color ☐ Other _____			☒ 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 ☐ W-PC-AA-SF ☐ W-UHERB-AA ☐ W-GLYPH			☐ Ice ☐ Other _____			

Contains
1:1
Sulfuric Acid
SA-5259020
EXP: 09/16/16
Warning!
See MSDS

QA/QC Sample Information

Duplicate N/A

Time Zone: EST CEN		Sample Depth (m): _____		Field ID: _____	
Time: _____		Total Depth (m): _____			
Parameter Suite	Parameter Methods	Preservation	Acid Lot#	Expiration	pH Check
Preserved Nutrients	☐ TKN / TP / Nox / NH3 / TOC ☐ Other _____	☐ Ice ☐ H ₂ SO ₄			☐ < 2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO ₃			☐ < 2
Filtered Nutrients	☐ oP ☐ Field Filtered 0.45 µm Filter	☐ Ice	Place Preservative Sticker(s) Here (If Available)		
Chlorophyll	☐ CHLSUITE-W	☐ Ice			
BOD	☐ BOD-INHB ☐ BOD-UNIN	☐ Ice			
Physical/Aggregate	☐ TSS / Turbidity / Alkalinity / Color ☐ Other _____	☐ Ice			
Microbiology	☐ E Coli ☐ F Coli ☐ Enterococcus ☐ QPCR	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PC-AA-SF ☐ W-UHERB-AA ☐ W-GLYPH	☐ Ice ☐ Other _____			

Blank N/A

Time Zone: EST CEN		Time: _____		Field ID: _____		Location: _____	
☐ Field Blank ☐ Equipment Blank ☐ Field Cleaned Equipment Blank		Equipnet ID: _____					
Parameter Suite	Parameter Methods	Preservation	Acid Lot#	Expiration	pH Check		
Preserved Nutrients	☐ TKN / TP / Nox / NH3 / TOC ☐ Other _____	☐ Ice ☐ H ₂ SO ₄			☐ < 2		
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO ₃			☐ < 2		
Filtered Nutrients	☐ oP ☐ Field Filtered 0.45 µm Filter	☐ Ice	Place Preservative Sticker(s) Here (If Available)				
Chlorophyll	☐ CHLSUITE-W	☐ Ice					
BOD	☐ BOD-INHB ☐ BOD-UNIN	☐ Ice					
Physical/Aggregate	☐ TSS / Turbidity / Alkalinity / Color ☐ Other _____	☐ Ice					
Microbiology	☐ E Coli ☐ F Coli ☐ Enterococcus ☐ QPCR	☐ Ice					
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PC-AA-SF ☐ W-UHERB-AA ☐ W-GLYPH	☐ Ice ☐ Other _____					

Notes: Weather - clear 0% cloud cover, ~ 16 °C air temp
Water level high + very green

Place Label Here
(If Available)

Conductivity did not pass CCLV
Do not use cond./salinity data, probe calibrator WRONG!

Signature: James AdamsDate: 2-9-16Field Parameters Entered into LIMS: CM 2-15-16Field Parameters QC in LIMS: BR 2/15/16Date Migrated to STORET: DT 3-11-16Field Sheets Scanned/Saved: CM - 3/16/16

(Initials/Date)

(Initials/Date)

Request Number: RQ-2016-02-08-09

Lake Arrowhead, Lake Kanturk, Petty Gulf Lake and
Alford Arm TributaryFlorida Department of Environmental Protection
Central Laboratory Submittal Form

Page 1 of 2

last revised Nov 10, 2015

Customer: WQAP

Project ID: SMP

Requester: Benjamin Ralys

Collected By: Benjamin Ralys

Field Report Prepared By: James Albright

Sampling Agency: FDEP - WAS

Location Lake Arrowhead @ boat dock @ Turtle Ck Ln near Outlet		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 2-9-16 Time 9:30	Eastern Central	Composite end Date Time	Bottle Group(s) (See pg 2) A
Field ID 61WA0004	Matrix (type, e.g., Salt, Fresh, etc) Fresh	Diss. Oxygen 9.87	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		
STORET # 61WA0004	Temp (C) 11.71°	pH 6.54	Sample Depth 0.5	Sp. Conductance (umho/cm) 788		
Latitude 30.568517 ☒ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt) 0.39	Comments Very green water w/ (suspended algae)			
Location Lake Petty Gulf @ Deer Lake Rd East		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 2-9-16 Time 10:16	Eastern Central	Composite end Date Time	Bottle Group(s) A
Field ID 61WA0016	Matrix (type, e.g., Salt, Fresh, etc) Fresh	Diss. Oxygen 8.45	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		
STORET # 61WA0016	Temp (C) 10.65°	pH 6.74	Sample Depth 0.5	Sp. Conductance (umho/cm) 654		
Latitude 30° 35.238' N ☐ dd ☒ dms	Longitude 84° 13.384' W ☐ dd ☒ dms	Salinity (ppt) 0.32	Comments Leeward end of long fetch w/ strong winds 15 gusting to 20+ kt			
Location Killeen Chain of Lakes Outlet @ Vicksburg Rd by m. Att Hill ct		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 2-9-16 Time 11:00	Eastern Central	Composite end Date Time	Bottle Group(s) A
Field ID 61WA0015	Matrix (type, e.g., Salt, Fresh, etc) Fresh	Diss. Oxygen 9.39	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		
STORET # 61WA0015	Temp (C) 9.44°	pH 6.39	Sample Depth 0.25	Sp. Conductance (umho/cm) 594		
Latitude 30° 32.241' N ☐ dd ☒ dms	Longitude 84° 13.708' W ☐ dd ☒ dms	Salinity (ppt) 0.29	Comments			
Location Alford Arm Tributary at Buck Lake Rd		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 2-9-16 Time 12:15	Eastern Central	Composite end Date Time	Bottle Group(s) A
Field ID 61WA0017	Matrix (type, e.g., Salt, Fresh, etc) Fresh	Diss. Oxygen 8.14	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		
STORET # 61WA0017	Temp (C) 10.51°	pH 6.26	Sample Depth	Sp. Conductance (umho/cm) 515		
Latitude 30° 27.818' N ☐ dd ☒ dms	Longitude 84° 10.269' ☐ dd ☒ dms	Salinity (ppt) 0.23	Comments			

Relinquished By: Jan W	Date/Time 2-9-16/1:28	Shipping Method	Received By: [Signature]	Date/Time 02-09-16 13:28	Relinquished By:	Date/Time	Received By:	Date/Time
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Group: A	Bottle Type:	P-1L	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>4</u>
	ALKALINITY						
	TURBIDITY						
	W-CL-IC						
	W-COLOR						
	W-F						
	W-NO2						
	W-TDS						
	W-TSS						
Group: A	Bottle Type:	P-1L	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>4</u>
	BOD-UNIN						
Group: A	Bottle Type:	BP-1L	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	<u>4</u>
	CHL-CORR-W						
Group: A	Bottle Type:	P-500ML	# of Bottles: 4	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	<u>4</u>
	W-NH3						
	W-NO2NO3						
	W-S-A-TP						
	W-TKN						
	W-TOC						
Group: A	Bottle Type:	P-125ML	# of Bottles: 4	Preservative:	ICE-FLTR	Enter Number of Bottles Sent to Lab	<u>4</u>
	W-PO4-F						

RQ-2016-02-08-C9

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 ID:

Bio # 7

Project:

SMP - Ochlocknee - St. Marks

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 _____

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.	J. Albright	2-9-16	0805	18.7°	9.333	9.27	99.4	80.8		P	L
ICV	J. Albright	2-9-16	0811	18.8°	9.314	9.27	99.4	79.9		P	L
CCV	J. Albright	2-9-16	1345	18.9°	9.295	9.25	99.5	82.9		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.	J. Albright	2-9-16	0815	CC13882	7-15-16	1,000	1,010	P	L
ICV	J. Albright	2-9-16	0817	CC13882	7-15-16	1,000	1,009	P	L
CCV	J. Albright	2-9-16	1346	CC13882	7-15-16	1,000	1,100	F	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.	J. Albright	2-9-16	0820	156244	10-2017	7.0	7.0	-20.7	P	L
Calibr.	J. Albright	2-9-16	0825	154634	7-2017	4.0	4.0	152.2	P	L
Calibr.	J. Albright	2-9-16	0830	146934	10-2016	10.0	10.0	-199.7	P	L
ICV	J. Albright	2-9-16	0835	146934	10-2016	10.0	9.95	-197.3	P	L
CCV	J. Albright	2-9-16	1357	146934	10-2016	10.0	9.9	-194.2	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

Cooler Packing Worksheet for Request: RQ-2016-02-08-09
Lake Arrowhead, Lake Kanturk, Petty Gulf Lake and Alford Arm Tributary

Ship Cooler On: 1/25/2016
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.

Requested Analyses:

Bottle Group: A

of Sites: 4

Container ID: P-1L

Qty: 4 Preservation: ICE

Lot # 00063459

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: 4 Preservation: ICE

Lot # 00062304

Description: Plastic Bottle 1L

Analysis

BOD-UNIN

Description

BOD, NOT nitrogen-inhibited

Container ID: BP-1L

Qty: 4 Preservation: ICE

Lot # 1154697

Description: Brown Plastic Bottle 1L

Analysis

Description

Container ID: P-500ML

Qty: 4 Preservation: ICE And H2SO4

Lot # 00063222

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: 4 Preservation: ICE-FLTR

Lot # 00062786

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

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

Cooler Packed By: cu Date: 2/1/16DEP Cooler ID #(s): 2 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 # _____

N/A

PLEASE RETURN ALL COOLERS FOR RQ-2016-02-08-09