A-KIT

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

February 2016

Data Qualified? Yes / (No)

STORET Station Name: LAKE THOMAS OUTLET Date: 8-17-16 (mm/dd/yyyy)

STORET Station ID: G1SW0050 Latitude: 28°06'25.44"N (Decimal Degrees)

WBID: 1463S RQ-2016-08-15-32 ORG ID: 21FLTPA Longitude: 82°30'23.39"W (Decimal Degrees)

Receiving Body of Water: _____ Field ID: G1SW0050 County: HILLS.

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
JUDY ASHTON		X		X	X
STEPHEN CLINGERMAN	X		X		

Sampling Equipment

- [X] Sample Container
- [ ] Carboy
- [ ] Dipper
- [ ] Van Dorn
- [X] Syringe
- [ ] Other _____
- [ ] Pole

Equipment ID _____

Collection Method

- [X] Wading
- [X] From Shore
- [ ] Other (note below)

Via Boat
- [ ] Canoe/Kayak
- [ ] Electric Motor
- [ ] Gasoline Motor

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

Matrix: (Fresh) / Marine / DI

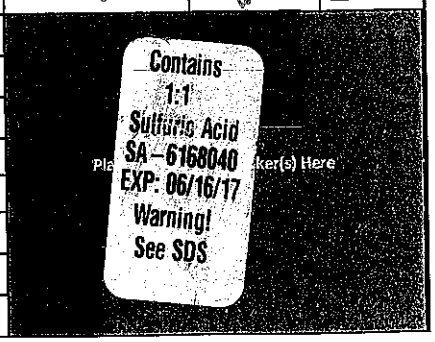
Meter ID# LIL' JON Photos: Yes / (No)

Tide Falling: Yes / No / (NA)

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	12:40	0.3	0.8	1.24	16	6.0	0.07	0.8 "S"	158	28.5
CEN										

Biological Samples Collected: None HA SCI (LVS) (RPS) LVI Other _____

Parameter Suite	Parameter Methods	Preservation	Acid Lot#	Expiration	pH Check
Preserved Nutrients	[X] W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	[X] Ice [X] H_2SO_4			[X] <2
Metals	[ ] W-ICPMS [ ] W-ICP	[ ] Ice [ ] HNO_3			[ ] <2
Filtered Nutrients	[X] W-PO4-F [X] Field Filtered 0.45 µm Filter	[X] Ice			
Chlorophyll	[X] CHLSUITE-W	[X] Ice			
BOD	[ ] BOD-UNIN	[ ] Ice			
Physical/Aggregate (Kit A)	[X] Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS	[X] Ice			
Physical/Aggregate (Kit B)	[ ] 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 [ ] W-PC-AA-SF [ ] W-UHERB-AA [ ] W-GLYPH	[ ] Ice [ ] Other			
Flow m/s	0.3m/s ("J" Qualify Flow)				



Notes:

RQ-2016-08-15-32 21FLHILL509
Date: 08-15-2016
Time: Field ID: G1SW0050

Signature: _____ Date: 8-17-16

Field Parameters Entered into LIMS: _____ (Initials/Date) Field Parameters QC in LIMS: _____ (Initials/Date)

Date Migrated to STORET: _____ (Initials/Date) Field Sheets Scanned/Saved: _____ (Initials/Date)

Form FD 9000-32 **FDEP Linear Stream Vegetation Survey (DEP SOP FS 7320)** Revised 6/12/12

Waterbody: LAKE THOMAS OUTLET | Date: 8/17/16 | County: HILLS | Storet Number:

Analyst: J. ASHTON, S. CLINGERMAN | Signature: | CISW0050

Comments:

Instructions: Note taxa growing in the water with a checkmark if present, "D" if dominant, and "C" if codominant (dominance only if 1 m^2 of taxa present). Note in the boxes below if no dominant are selected, and note total macrophyte abundance rank for each section. Only the most common taxa are listed, so use blank spaces for additional taxa names.

HERBACEOUS SPECIES	Meter Mark 0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	Specimen collected (check)
Alternanthera philoxeroides	X	X	X	X	X				X		
Bacopa caroliniana	X					X					
Bacopa monneri											
Bidens mitis											
Boehmeria cylindrica		X									
Centella asiatica											
Cephalanthus occidentalis											
Ceratophyllum demersum											
Chara											
Cicuta maculata											
Cladium jamaicense											
Colocasia esculenta											
Crinum americanum											
Diodia virginiana											
Eichhornia crassipes	X	X	X	X	X	X					
Eleocharis (wispy viviparous)											
Hydrilla verticillata											
Hydrocotle	X										
Hygrophila polysperma	X			X							
Hymenocallis											
Itea virginica											
Lachnanthes caroliniana											
Landoltia punctata											
Lemna		X									
Limnophila sessiflora											
Ludwigia leptocarpa											
Ludwigia palustris											
Ludwigia peruviana	X	X				X					
Ludwigia repens											
Luziola fluitans											
If no Dominant or Co-Dominant were selected, indicate with an "X"											
Indicate % cover macrophytes per section											
0-5% Macrophyte Coverage											
>5 and ≤10% Macrophyte Coverage											
>10 and ≤25% Macrophyte Coverage											
>25 and ≤50% Macrophyte Coverage											
> 50% Macrophyte Coverage											

HERBACEOUS SPECIES	Meter Mark 0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	Specimen collected (check)
Micranthemum glomeratum											
Micranthemum umbrosum											
Myriophyllum aquaticum											
Najas guadelupensis											
Nasturtium officinalis											
Nuphar luteum											
Orontium aquaticum											
Panicum hemitomon											
Panicum repens											
Panicum rigidulum											
Pistia stratioides											
Polygonum glabra											
Polygonum hydropiperoides											
Polygonum punctatum											
Pontedaria cordata											
Potamogeton illinoensis											
Ruellia simplex											
Rumex verticilatus											
Sabal palmeto											
Sacciolepis striata											
Sagittaria kurziana											
Sagittaria lancifolia											
Sagittaria latifolia											
Salix caroliniana											
Salvinia minima	X	X	X	X	X	X	X	X	X	X	
Samolus parviflora											
Saururus cernuus											
Schoenoplectus											
Typha											
Vallisneria americana											
Zizania aquatica											
ACER	X		X								
osmundo regalus	X										
mycania	X										
micranthemum sp.	X					X					
Myrica cerifera	X						X				
potamogeton & pectinatus		X									
Serano repens			X								
Osmundo			X								
thelepterus interrupta						X					
quercus nigra						X					
bleenum											
pupcorn tree - Sapium											
Schinus terebenthefolius											

X X X X

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: LAKE THOMAS OUTLET | County: HILLS. | Date: 8-17-16 | Investigators: J. ASHTON, S. CLINGLEMAN

STORET Station Number: 21FLWQ0050

Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover
0	1	N		
	2	N		
	3	N		
	4	N		
	5	N		90
	6	N		
	7	N		
	8	N		
	9	N		
10	1	N		
	2	N		
	3	N		
	4	N		
	5	N		83
	6	N		
	7	5		
	8	N		
	9	N		
20	1	N		
	2	N		
	3	3		
	4	N		
	5	N		90
	6	N		
	7	N		
	8	3		
	9	3		
30	1	N		
	2	N		
	3	N		
	4	N		
	5	N		93
	6	N		
	7	N		
	8	N	✓	
	9	N	✓	
40	1	N		
	2	N		
	3	N		
	4	N		
	5	N		30
	6	N		
	7	N		
	8	N		
	9	N		
50	1	N		
	2	N		
	3	N		
	4	N		
	5	N		96
	6	N		
	7	N		
	8	N		
	9	N		

Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover
60	1	N		
	2	N		
	3	N		
	4	N		
	5	N		96
	6	N		
	7	N		
	8	N		
	9	N		
70	1	N		
	2	N		
	3	N		
	4	N		
	5	N		96
	6	N		
	7	N		
	8	N		
	9	N		
80	1	N		
	2	N		
	3	N		
	4	N		
	5	N		96
	6	N		
	7	N		
	8	N		
	9	N		
90	1	N		
	2	N		
	3	N		
	4	N		
	5	N		96
	6	N		
	7	N		
	8	N		
	9	N		
100	1	N		
	2	N		
	3	N		
	4	N		
	5	N		15
	6	N		
	7	N		
	8	N		
	9	N		

Secchi depth	VOB
Estimated?	

# points ranked 4-6	0
total points assessed	49
% points ranked 4-6	0

Check accompanying data collected at same site/date	
Algal mat sample	
Linear Veg Survey	✓
Habitat Assessment	
SCI/Biorecon	
Water sample	✓

RQ-2016-08-15-32

Algal Thickness Rank	
N	rough, no algae, slimy, algae up to 1mm
3	>1mm - 6mm
4	>6mm - 20mm
5	>20mm - 10 cm
6	>10 cm

*If you can see the secchi on the bottom, but you cannot see or reach surrounding substrate use "X" and check estimated

Record "N" and check "Estimated" for points deeper than the Secchi depth; algae are presumed absent. Check "Estimated" if thickness estimated for deep points which can be seen but not reached.

*Record "X" for points shallower than Secchi depth for which substrate cannot be seen or reached with the hand. No estimated rank.

Record canopy cover as the number of small densiometer quadrants (out of 96) that HAVE canopy cover. Measure facing upstream at point 4, 5, or 6.

Collect algal mat sample following DEP SOP FS 7240 if the percentage of total sampled points with a thickness rank of 4, 5, or 6 is >20%.

FedEx Express Package US Airbill

FedEx Tracking Number 8103 9283 4285

MUR3

Form ID No. 0215

1 From *Please print and press hard.*

Date 8-17-16 Sender's FedEx Account Number

Sender's Name Judy Ashton Phone (813) 470-5770

Company FDEP

Address 13051 N. Telecom Pkwy Dept./Floor/Suite/Room

City Temple Terrace State FL ZIP 33637

2 Your Internal Billing Reference
First 24 characters will appear on invoice.

3 To

Recipient's Name SAMPLE RECEIVING Phone (850) 245-8085

Company FLORIDA DEP/CHEMISTRY SECTION

Address 2600 BLAIRSTONE RD
We cannot deliver to P.O. boxes or P.O. ZIP codes. Dept./Floor/Suite/Room

Address
Use this line for the HOLD location address or for continuation of your shipping address.

City TALLAHASSEE State FL ZIP 32399

Hold Weekday — FedEx location address REQUIRED. NOT available for FedEx First Overnight.

Hold Saturday — FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

0124031825

4 Express Package Service * To most locations. *Packages up to 150 lbs. For packages over 150 lbs., use the FedEx Express Freight US Airbill.*

Next Business Day

- ☐ FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless Saturday Delivery is selected.
- ☒ FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless Saturday Delivery is selected.
- ☐ FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

- ☐ FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- ☐ FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless Saturday Delivery is selected.
- ☐ FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

☐ FedEx Envelope* ☐ FedEx Pak* ☐ FedEx Box ☐ FedEx Tube ☒ Other

6 Special Handling and Delivery Signature Options Fees may apply. See the FedEx Service Guide.

☐ Saturday Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

☐ No Signature Required — Package may be left without obtaining a signature for delivery.
☐ Direct Signature — Someone at recipient's address may sign for delivery.
☐ Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only.

Does this shipment contain dangerous goods?
One box must be checked.

☒ No ☐ Yes As per attached Shipper's Declaration. ☐ Yes Shipper's Declaration not required. ☐ Dry Ice Dry Ice, 9, UN 1845 ____ x ____ kg

Restrictions apply for dangerous goods — see the current FedEx Service Guide. ☐ Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☒ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check

FedEx Acct. No. / Credit Card No. 4490-2262-9 Exp. Date

Total Packages	Total Weight	Total Declared Value†
1	50 lbs.	$ .00

†Our liability is limited to US$100 unless you declare a higher value. See back for details. By using this airbill you agree to the service conditions on the back of this airbill and in the current FedEx Service Guide, including terms that limit our liability.

611

PULL AND RETAIN THIS COPY BEFORE AFFIXING TO THE PACKAGE. NO POUCH NEEDED.

Request Number: RQ-2016-08-15-32

RUN 7

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Apr 7, 2016

Customer: SW-DIST

Project ID: SMP

Requester: Judy Ashton

Collected By: SC, JA

Field Report Prepared By: SC

Sampling Agency: 21 FLTPA

Location: ANCLOTE @ LITTLE

☐ Comp ☑ Grab | Collection (comp begin or grab) Date 08-17-2016 Time 1020 Eastern / Central | Composite end Date Time | Bottle Group(s) (See pg 2): A

Field ID: RQ-2016-08-15-32 24040071

STORET #: Date: 08-15-2016 Time: Field ID: G5SW0110

Latitude: ☐ dms ☐ dd ☐ dms

Matrix (type, e.g., Salt, Fresh, etc)

Diss. Oxygen 5.9 mg/L, 73 % sat | Total Res. Chlorine (mg/L)

Temp (C) 26.4 | pH 6.5 | Sample Depth 0.3 ☐ ft ☒ m | Sp. Conductance (umho/cm) 126

Salinity (ppt) 0.06 | Comments

Location: ANCLOTE @ STARKEY

☐ Comp ☑ Grab | Collection (comp begin or grab) Date 08-17-2016 Time 1100 Eastern / Central | Composite end Date Time | Bottle Group(s): A

Field ID: RQ-2016-08-15-32 G5SW0109

STORET #: Date: 08-15-2016 Time: Field ID: G5SW0109

Latitude: ☐ dms ☐ dd ☐ dms

Matrix (type, e.g., Salt, Fresh, etc)

Diss. Oxygen 5.9 mg/L, 73 % sat | Total Res. Chlorine (mg/L)

Temp (C) 26.2 | pH 6.5 | Sample Depth 0.3 ☐ ft ☒ m | Sp. Conductance (umho/cm) 120

Salinity (ppt) 0.06 | Comments

Location: ~~ANC~~ LAKE THOMAS OUTLET

☐ Comp ☑ Grab | Collection (comp begin or grab) Date 08-17-2016 Time 1240 Eastern / Central | Composite end Date Time | Bottle Group(s): A

Field ID: RQ-2016-08-15-32 21FLHILL509

STORET #: Date: 08-15-2016 Time: Field ID: G1SW0050

Latitude: ☐ dms ☐ dd ☐ dms

Matrix (type, e.g., Salt, Fresh, etc)

Diss. Oxygen 1.2 mg/L, 16 % sat | Total Res. Chlorine (mg/L)

Temp (C) 28.5 | pH 6.0 | Sample Depth 0.3 ☐ ft ☒ m | Sp. Conductance (umho/cm) 158

Salinity (ppt) 0.07 | Comments

Location: LAKE ANN (PARKER)

☐ Comp ☑ Grab | Collection (comp begin or grab) Date 08-17-2016 Time 1320 Eastern / Central | Composite end Date Time | Bottle Group(s): A

Field ID: RQ-2016-08-15-32 99LAKES06

STORET #: Date: 08-15-2016 Time: Field ID: G1SW0018

Latitude: ☐ dms ☐ dd ☐ dms

Matrix (type, e.g., Salt, Fresh, etc)

Diss. Oxygen 7.7 mg/L, 105 % sat | Total Res. Chlorine (mg/L)

Temp (C) 31.4 | pH 6.9 | Sample Depth 0.3 ☐ ft ☒ m | Sp. Conductance (umho/cm) 161

Salinity (ppt) 0.07 | Comments

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
[signature]	08/17/2016 1800	FedEx	1		

Request Number: RQ-2016-08-15-32

RUN 7

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Apr 7, 2016

Customer: SW-DIST

Project ID: SMP

Requester: Judy Ashton

Collected By: SC, JA

Field Report Prepared By: SC

Sampling Agency: ZI FL TPA

Location: DUPLICATE (LAKE ANN [PARKER])

Field ID: RQ-2016-08-15-32 99LAKES06

STORET #: Date: 08-15-2016 Time: Field ID: **DUPLICATE**

Latitude ☐ dms ☐ dd ☐ dms

☐ Comp ☑ Grab | Collection (comp begin or grab) Date 08-17-2016 Time 1325 Eastern Central | Composite end Date Time | Bottle Group(s) (See pg 2): A

Matrix (type, e.g., Salt, Fresh, etc) | Diss. Oxygen ☒ mg/L ☒ % sat | Total Res. Chlorine (mg/L)

Temp (C) | pH | Sample Depth 0.3 ☐ ft ☒ m | Sp. Conductance (umho/cm)

Salinity (ppt) | Comments

Location: BLANK

Field ID: RQ-2016-08-15-32 BLANK

STORET #: Date: 08-15-2016 Time: Field ID: **BLANK**

Latitude ☐ dms ☐ dd ☐ dms

☐ Comp ☑ Grab | Collection (comp begin or grab) Date 08-17-2016 Time 1530 Eastern Central | Composite end Date Time | Bottle Group(s): A

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

Location: LAKE DEAD LADY

Field ID: RQ-2016-08-15-32 G1SW0021

STORET #: Date: 08-15-2016 Time: Field ID: **G1SW0021**

Latitude ☐ dms ☐ dd ☐ dms

☐ Comp ☑ Grab | Collection (comp begin or grab) Date 08-17-2016 Time 1400 Eastern Central | Composite end Date Time | Bottle Group(s): A

Matrix (type, e.g., Salt, Fresh, etc) | Diss. Oxygen 9.8 / 128 ☒ mg/L ☒ % sat | Total Res. Chlorine (mg/L)

Temp (C) 30.0 | pH 6.5 | Sample Depth 0.3 ☐ ft ☒ m | Sp. Conductance (umho/cm) 148

Salinity (ppt) 0.07 | Comments

Location:

Field ID

STORET #

Latitude ☐ dms ☐ dd | Longitude ☐ dms ☐ dd

☐ 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
	08/17/2016 1800	FedEx	2		