FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2017

Data Qualified? Yes / (No)

STORET Station Name: Lake Lafayette Drain 250 meters downstream of Weems Rd **Date:** 01/04/2017 (mm/dd/yyyy)

STORET Station ID: G1WA0007 **WBID:** 756I **Latitude:** 30.4544 (Decimal Degrees)

County: Leon **RQ -** 2017-01-02-51 **ORG ID:** 21FLWQA **Longitude:** -84.2204 (Decimal Degrees)

Receiving Body of Water: Lake Lafayette **Field ID:** G1WA0007-01042017

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

Sampling Equipment

☑ Sample Container ☐ Van Dorn ☐ Pole
☐ Carboy ☑ Syringe
☐ Dipper ☐ Other _____
Equipment ID _____

Collection Method

☑ Wading
☐ From Shore
☐ Other (note below)

Via Boat
☐ Canoe/Kayak
☐ Electric Motor
☐ Gasoline Motor

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

Matrix: (Fresh) / Marine / DI

Meter ID# Bidoyy 2 **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)	9:20	0.3	0.7	8.4	89	7.0	0.04	VOB	84	18.3
CEN										

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

SBIO ID Numbers: SBIO-ID: 77211 RPS-ID: 8530 Macrophyte-ID: 12 m² LIMS#: 1861216

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 ☑ H_2SO_4	SA-6209120	7/27/17	☑ <2
Metals	☑ W-ICPMS ☑ W-ICP	☑ Ice ☑ HNO_3	NA-6218060	8/5/17	☑ <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			
Periphyton	☑ ALGAE-ID	☐ Ice			
Microbiology	☑ E Coli ☐ F Coli ☐ Entero ☐ PCR-FILTER	☑ Ice			
Tracers	☐ W-SUC-AA-R ☐ W-UHERB-AA	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH	☐ Ice ☐ Other			

Notes: Field ID → Lake Lafayette Drain 250 meters downstream of Weems Rd Jan 04, 2017

G1WA0007–01042017

Lake Lafayette Drain 250 meters downstream of Weems Rd STORET ↓

G1WA0007

Signature: _____ **Date:** 1/4/17

Field Parameters Entered into LIMS: DT 1/5/2017 (Initials/Date) **Field Parameters QC in LIMS:** _____ (Initials/Date)

Date Migrated to STORET: _____ (Initials/Date) **Field Sheets Scanned/Saved:** DT 1/5/2017 (Initials/Date)

DEP Form FD 9000-5 Stream/River Habitat Assessment Field Sheet

SAMPLING AGENCY: Florida Department of Environmental Protection		STORET STATION NUMBER: GIWA0007	DATE (MM/DD/YY): 01/04/17	RECEIVING BODY OF WATER: Lake Lafayette
REMARKS: Curtis Musson	COUNTY: Leon	LOCATION: Lake Lafayette Drain		FIELD ID/NAME: GIWA0007-01042017

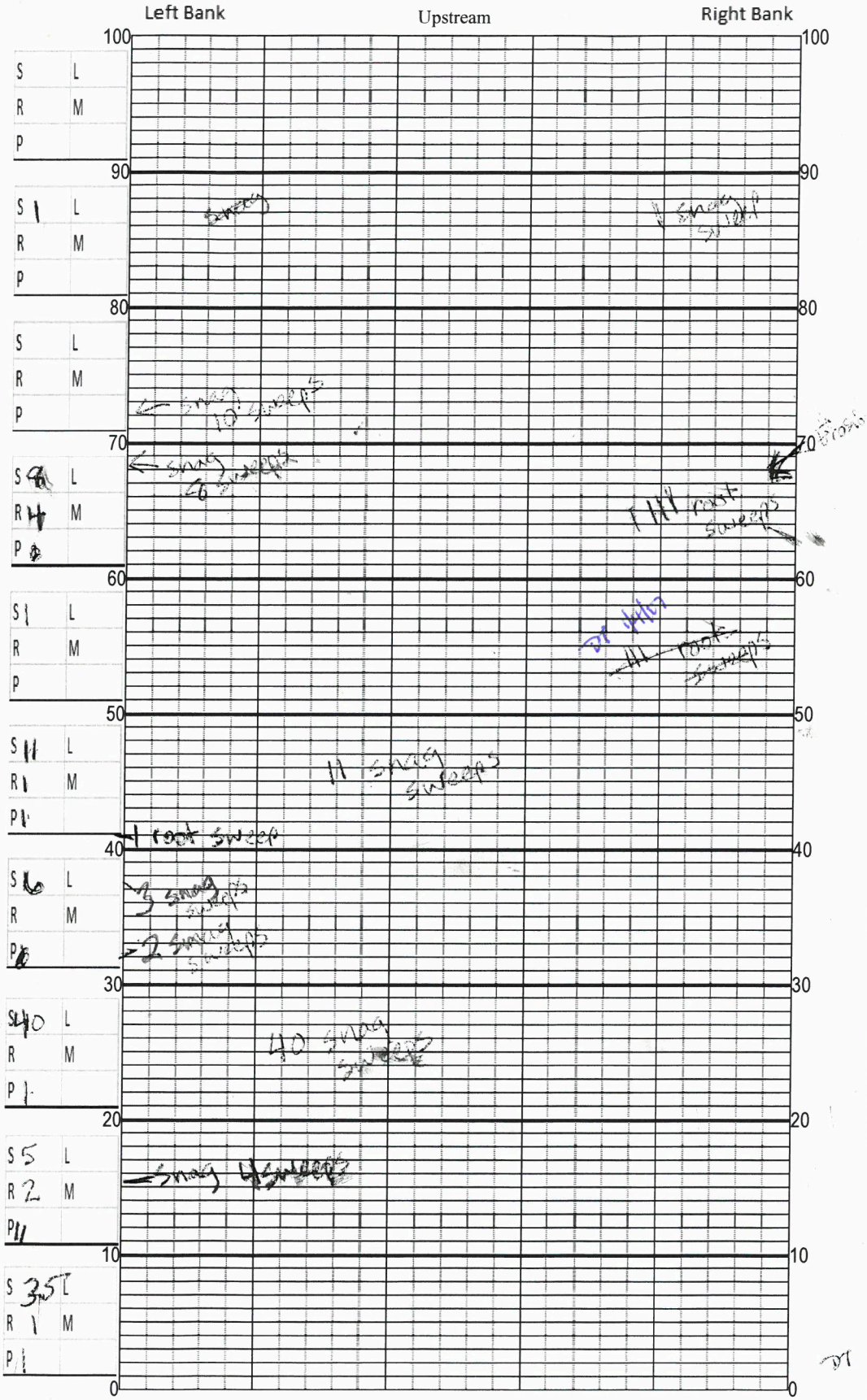
Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components (Snag, Leaf, Roots, Rock, Aquatic Vegtation) **Substrate Diversity** 5	Four or more major productive habitats present [snags, tree roots, aquatic vegetation, leaf packs (partially decayed), rock] 20 19 18 17 16	Three major productive habitats present. Adequate habitat. Some substrates may be new fall (fresh leaves or snags) 15 14 13 12 11	Two major productive habitats present. Less than desirable habitat, frequently disturbed or removed 10 9 8 7 6	One or less major productive habitat. Lack of habitat is obvious, substrates unstable or smothered (5) 4 3 2 1
Substrate Availability 3 2.4 %	Major productive habitat present at site (>30% 27.2% 25.8% 24.4% 26.6%) 20 19 18 17 16	Major productive habitat, by aerial extent (21.6% 20.2% 18.8% 17.4% 16%) 15 14 13 12 11	6% to 15% major productive habitat (15% 13% 11% 9% 6%) 10 9 8 7 6	Less than 5% major productive habitat 5 4 (3) 2 1
Water Velocity ~~0.54~~ 20 ~~20~~ m/s 0.54 DT 1/5/17	Max. observed at typical transect: > 0.25 m/sec. But < 1 m/sec ≥0.33 0.31 0.29 0.27 >0.25 (20) 19 18 17 16	Max. observed at typical transect: >0.1 to 0.25 m/sec 0.25 0.21 0.17 0.13 >0.1 15 14 13 12 11	Max. observed at typical transect: 0.05 to 0.1 m/sec 0.1 0.09 0.07 0.06 0.05 10 9 8 7 6	Max. observed at typical transect: <0.05 m/sec; or spate occurring: > 1 m/sec <0.05 0.04 0.03 0.01 <0.01 5 4 3 2 1
Habitat Smothering 19 Primary Score 47	Adequate number of stable pools (1-2 per 12 times width) and <25% of habitats affected by sand, silt, or algae. 20 (19) 18 17 16	Adequate number of stable pools (1-2 per 12 times width) and >25% of habitats affected by sand, silt, or algae. 15 14 13 12 11	Does not have required number of stable pools (1-2 per 12 x width) and/or has shallow pools (<2 x prevailing depth). 10 9 8 7 6	Stable pools are absent. Most habitats affected by sand, silt, or algae accumulation. 5 4 3 2 1
Secondary Habitat Components **Artificial Channelization** 20	Expected sinuosity given the stream width. No evidence of dredging or artificial straightening. No spoil banks. (20) 19 18 17 16	Good sinuosity within old channelized area. Evidence of dredging in the past (>25 yrs) but mostly recovered. 15 14 13 12 11	Straightened with trapezoidal cross section, but has a small degree of sinuosity developed within channelized area. 10 9 8 7 6	Straightened or engineered by dredging, has trapezoidal or box cut cross section, lacks required pools. May have spoil banks. 5 4 3 2 1
Bank Stability Right Bank 7 Left Bank 9 If Banks are PipeClay, BedRock or Concrete at Bank full: Optimal	Bankfull > 60% of bank height. Slope of bank ≤ 60° from bankful to top of bank. Bankfull is within or above the root zone with few raw, eroded areas. (+,+,+) 10 9	Only meets 2 of the 3 requirements for optimal bank stability. (+,+,-) 8 7 6	Only meets 1 of the 3 requirements for optimal bank stability. (+,-,-) 5 4	Bankfull < 60% of bank height. Slope of bank > 60°. Bankfull is below the root zone with raw, eroded areas. (-,-,-) 3 2 1
Riparian Buffer Zone Width Right Bank 10 Left Bank 10	Width of vegetation greater than 18 m 10 9	Width of vegetation >12 to 18m 8 7 6 (18m 15m 12m)	Width of vegetation 6 to 12 m. human activities close to system 5 4 (9m)	Less than 6 m of buffer zone due to intensive human activities 3 2 1 (6-5m) (4-3m) (<2m)
Riparian Zone Vegetation Quality Right Bank 5 Left Bank 5 Secondary Score 60	Over 80% of riparian surfaces consist of normal, expected plant community for given sunlight & habitat conditions (e.g., native plants; tree, shrub, and forbs represented, if appropriate). Minimal disturbance. 10 9	>50% to 80% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Some disruption in community observed. 8 7 6	25% to 50% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Disruption obvious. 5 4	Less than 25% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). 3 2 1

113 **TOTAL SCORE**

Date: 1/4/17	Analyst: Curtis Musson	Signature:

LIMS: 1861216 TRS: 8530
SBIO: 77211
HA ID: 14263

DEP Form FD 9000-4 Stream/River Habitat Assessment Sketch Sheet



Meter Mark	Depth (m)	Width (m)	Velocity Measurement (Sec)
Avg.			

Length of grid represents 100 m of stream (not linear meters). (Horizontal scale is double vertical scale, draw proportionately).

Expected Number of Pools

$\left(\frac{100}{12 * 5\ W}\right) * 1 =$ 1.6

$\left(\frac{100}{12 * \_\_\_\ W}\right) * 2 =$ 3.3

Location: Lake Lagrafetta Drain- Loon Below Weeks Rd.

Date: 1-4-17

Sampler: Curtis Musson

100 m: Latitude _____
Longitude _____

0 m: Latitude _____
Longitude _____

Substrates: Code key, draw proportionate habitat abundance.		%
S	Snags	2.2
R	Roots/undercut banks	0.2
L	Leaf Packs (or mats)	
M	Aquatic Macrophytes	
Rc	Rock	
	Total	2.4
P	Pools — total # observed = 5; # range expected = 2-3	

Average width 5.6 m
Average depth 0.6 m

Velocity measured at 90 meter mark.
Velocity 0.54 m/s

WQ & chemistry taken at 90 meter mark.

Habitat Smothering:
Note areas (on map) where sand or silt is smothering substrates, limiting habitability.

Bank Stability:
Note areas (on map) with unstable, eroding banks.

Riparian Buffer Width:
Note areas (on map) where natural vegetation is altered or eliminated.

Notes/Plants Observed:
$2m^2$ = 16 Sweeps

# of Sweeps	Conversion	m^2	%
Snag 75.5	÷8	12 m^2	2.2
Root 8 7	÷8	1 m^2	~~0.0052~~
Leaf	÷8	m^2	
Macrophyte	÷8	m^2	
Rock	÷8	m^2	
Total Available Habitat		560 m^2	2.4
Total Area		m^2	
Total Unavailable Habitat		m^2	

DEP Form FD 9000-3 Physical/Chemical Characterization Field Sheet

SAMPLE ID _____ ORG ID 21FLWQA LATITUDE 30.4544

COUNTY Leon STORET # G1WA0007 LONGITUDE -84.2204

DATE 01/04/2017 TIME _____ SAMPLING AGENCY FDEP - WAS

SITE NAME Lake Lafayette Drain 250 meters downstream of Weems Rd

FIELD ID/NAME G1WA0007-01042017 RECEIVING BODY OF WATER Lake Lafayette

RIPARIAN ZONE / STREAM FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category) :

Forest/Natural	Silviculture	Field/Pasture	Agricultural	Residential	Commercial	Industry	Other (Specify) Water
19.63	0.18	0.73	0.22	49.65	22.38	5.27	1.95

Landscape Development Intensity Index (LDI) 6.35

Local Watershed Erosion (select one) : ☐ None ☒ Slight ☐ Moderate ☐ Heavy

Local Watershed NPS Pollution : ☐ No evidence ☐ Slight ☐ Moderate ☒ Heavy

Width of Riparian Vegetation (m) on Each Buffer Side Left Bank : 718 Right Bank : 718

Hydrologic Modification Score (per FT 3101) 7-8

High Water Mark: 0.6 (m) + 0.6 (above present water level) = 1.2 (present depth) (above bed)

Artificially Impounded ☒ Yes ☐ No Upstream

Typical Width (m) Depth (m)/Velocity (m/sec) Transect

5.6 m wide

m/s	0.54 m/s	m/s
m deep	0.7 m deep	m deep

Artificially Channelized : ☒ No ☐ Some recovery ☐ Mostly recovered, more sinuous ☐ Recent, severe

Canopy Cover % ☐ Open ☐ Lightly Shaded (11-45%) ☐ Heavily Shaded ☒ Moderate Shaded (46-80%)

SEDIMENT / SUBSTRATE

Sediment Oils ☐ Absent ☐ Slight ☐ Moderate ☐ Profuse

Sediment Odors ☐ Normal ☐ Sewage ☐ Petroleum ☐ Chemical ☐ Anaerobic ☐ Other (Specify) :

Smothering of Substrates

	None	Slight	Moderate	Severe
Sand Smothering:	☐	☒	☐	☐
Silt Smothering:	☒	☐	☐	☐
Algae Smothering:	☐	☒	☐	☐

SUBSTRATE TYPE

Assessment Tool: ☒ SCI ☒ RPS ☒ LVS ☐ LCI ☐ BioRecon

	% Coverage	INVERT # Times Sampled	PERI # Times Sampled
Woody Debris (Snags)	2.2%	10	
Undercut Banks / Roots	0.2%	3.5	
Leaf Packs or Mat	<1%	1.5	
Aquatic Vegetation			
Rock or Shell Rubble..		5	
Sand.....			
Mud / Muck / Silt			
Other			
Other			

WATER QUALITY

	Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat (%)	Cond. (UMHO/CM)	Salinity (PPT)	SECCHI (M)
Top :								
Mid:	0.3	18.3	7.0	8.4	89	84	0.04	☒ VOB
Bottom								TOTAL DEPTH

Meter ID: Biology #2 — TOTAL DEPTH 0.7

Water Odors Normal ☒ Petroleum ☐ Sewage ☐ Chemical ☐ Other ☐

Water Surface Oils Normal ☒ Sheen ☐ Globs ☐ Slick ☐ Other ☐

Water Sample Taken? ☒ Yes ☐ No

Sample Preserved? ☐ Yes ☐ No

Lot Number:_____ Exp:_____

Color Tannic ☐ Green (Algae) ☐ Clear ☐ Other (Specify) ☒ Gray

Algae Sample Taken? ☒ Yes ☐ No

Sample Preserved? ☐ Yes ☒ No

Lot Number:_____ Exp:_____

Clarity Clear ☐ Slightly Turbid ☐ Turbid ☐ Opaque ☒

ABUNDANCE

	Not Obs.	Rare	Common	Abundant
Periphyton:	☐	☒	☐	☐
Fish:	☒	☐	☐	☐
Aquatic Plants:	☒	☐	☐	☐
Iron/Sulfur Bacteria:	☒	☐	☐	☐

System Type: Stream ☒ Lake ☐ Wetland ☐ Estuary ☐ Other(Specify) ☐ _____

AMBIENT FIELD CONDITIONS / NOTES:

☒ The antecedent hydrologic conditions have been met to my best knowledge.

SAMPLING TEAM Curtis Musson, Diane Turner

SIGNATURE : [signature]

DATE : 1-4-17

62-160.800, F.A.C. SBIO: 77211 RPS: 8530 LIMS: 1861216

Revision Date: March 1, 2014

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: Lake Lafayette Drain 250 meters downstream of Weems Rd | County: Leon | Date: 01/04/2017 | Investigators: Curtis Musson, Diana Turner

STORET Station Number: G1WA0007

Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover
0	1	5	N	
	2	3		
	3	N		
	4	N		
	5	N		30
	6	N		
	7	N		
	8	N		
	9	N	↓	
10	1	N	N	
	2	N		
	3	N		
	4	N		
	5	N		56
	6	N		
	7	N		
	8	N		
	9	N	↓	
20	1	5	N	
	2	N		
	3	N		
	4	N		
	5	N		7
	6	5		
	7	5		
	8	5		
	9	5	↓	
30	1	5	N	
	2	N		
	3	N		
	4	N		
	5	N		49
	6	N		
	7	N		
	8	N		
	9	N	↓	
40	1	5	N	
	2	N		
	3	N		
	4	N		
	5	N		96
	6	N		
	7	N		
	8	N		
	9	N	↓	
50	1	5	N	
	2	N		
	3	N		
	4	N		
	5	N		93
	6	N		
	7	N		
	8	N		
	9	5	↓	

Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover
60	1	N	N	
	2	N		
	3	N		
	4	N		
	5	N		14
	6	N		
	7	N		
	8	N		
	9	5	↓	
70	1	5	N	
	2	N		
	3	N		
	4	N		
	5	N		96
	6	N		
	7	N		
	8	N		
	9	N	↓	
80	1	5	N	
	2	N		
	3	N		
	4	N		
	5	N		96
	6	N		
	7	N		
	8	N		
	9	5	↓	
90	1	5		
	2	N		
	3	N		
	4	N		
	5	N		96
	6	N		
	7	N		
	8	5		
	9	5		
100	1	N		
	2	5		
	3	N		
	4	N		
	5	N		96
	6	N		
	7	N		
	8	N		
	9	N		

Secchi depth	VOB
Estimated?	N

# points ranked 4-6	16
total points assessed	100
% points ranked 4-6	16%

Check accompanying data collected at same site/date.	
Algal mat sample	✓
Linear Veg Survey	✓
Habitat Assessment	✓
SCI/Biorecon	✓
Water sample	✓
RQ- 2017-01-02-5 1 DT 1/5/17	

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

SBIO: 77211
LIMS: 1861216
RPS: 8530

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%.

DEP FORM FD 9000-32: LINEAR VEGETATION SURVEY FIELD SHEET

Waterbody: Lake Lafayette Drain	Date: 1/4/2017	County: Leon	Storet Number: G1WA0007
Analyst: Curtis Musson / Diana Turner		Signature:	

Comments: SMP Sampling

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											
Bacopa caroliniana											
Bacopa monneri											
Bidens mitis											
Boehmeria cylindrica											
Centella asiatica											
Ceratophyllum demersum											
Chara											
Cicuta maculata											
Cladium jamaicense											
Colocasia esculenta											
Commelina diffusa											
Commelina virginica											
Crinum americanum											
Diodia virginiana											
Eichhornia crassipes											
Eleocharis (wispy viviparous)											
Hydrilla verticillata											
Hydrocotle											
Hygrophila polysperma											
Hymenocallis											
Lachnanthes caroliniana											
Landoltia punctata											
Lemna											
Limnophila sessiflora											
Ludwigia leptocarpa											
Ludwigia palustris											
Ludwigia peruviana											
Ludwigia repens											
Luziola fluitans											
Micranthemum glomeratum											
Micranthemum umbrosum											
Mikania scandens											
Myriophyllum aquaticum											
If no Dominant or Co-Dominant were selected, indicate with "X"											

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)
Myriophyllum heterophyllum											
Najas guadelupensis											
Nuphar luteum											
Orontium aquaticum											
Panicum hemitomon											
Panicum repens											
Panicum rigidulum											
Peltandra virginica											
Pistia stratioides											
Polygonum glabra											
Polygonum hydropiperoides											
Polygonum punctatum											
Pontedaria cordata											
Potamogeton illinoensis											
Rhynchospora inundata											
Rosa palustris											
Ruellia simplex											
Rumex verticillatus											
Sacciolepis striata											
Sagittaria kurziana											
Sagittaria lancifolia											
Sagittaria latifolia											
Salvinia minima											
Samolus parviflora											
Saururus cernuus											
Scirpus (schenoplectus) californicus											
Sparganium americanum											
Typha											
Vallisneria americana											
Zizania aquatica											

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											

Notes:
LIMS: 1861216
SBIO: 77211
TRPS: 8530

☒ < 2m2

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-: 2017-01-02-51 | 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 09/23/2016

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	1-4-17	0746	21.3	8.8	8.84	99.9	41	-	P	L
ICV	Curtis Musson	1-4-17	758	21.38	8.85	8.82	99.7	41		P	L
CCV	Robert Wini	1/4/17	13:46	21.1	8.9	8.6	97.0	39.0	—	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 µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	Curtis Musson	1-4-17	0744	161111D	6/2017	1000	1000	P	L
ICV	Curtis Musson	1-4-17	0741	161111D	6/2017	1000	1000	P	L
CCV	Robert Wini	1/4/17	13:51	161111E	5/17	100	102	P	L
CCV									

Report specific conductance as a whole number with no decimal figure. 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	1-4-17	748	161111B	5/2017	7.0	7.00	-4	P	L
Calibr.	Curtis Musson	1-4-17	750	161111A	11-17	4.01	4.01	—	P	L
Calibr.	Curtis Musson	1-4-17	753	161111C	5-18	10.01	9.98	-182	P	L
ICV	Curtis Musson	1-4-17	755	161111C	5-18	10.01	9.96	-188	P	L
CCV	Robert Wini	1/4/17	13:52	161111A	11/17	4.01	4.10	155.2	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±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 ±5 % or ±0.05m, whichever is greater

Request Number: RQ-2017-01-02-51

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Central Lab Sample Submittal Form

Customer: WQAP
Project ID: SMP

Requester: Benjamin Ralys

Collected By: Robert Wiwi Ben Ralys

Field Report Prepared By: Ben Ralys

Sampling Agency: FDEP

Caney Creek Upstream of US 90

G1WA0014

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 1/4/17 Time 10:50 Eastern Central | Collection (comp begin or grab) Date — Time —

Matrix (Salt, Fresh) | Diss. Oxygen (mg/L) 8.7

Temp (C) 16.2 | pH 7.0 | Sample Depts (m) 0.3 | Sp. Conductance (umho/cm) 92

Salinity (ppt) 0.04 | Comments

Latitude (Decimal Degrees) 30.5325 | Longitude (Decimal Degrees) -83.9501

Bottle Group(s): B, C, D

Wards Creek upstream of bridge at CR 259

STORET

G1WA0002

Field ID

Wards Creek upstream of bridge at CR 259

Jan 04, 2017

G1WA0002-01042017

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 1/4/17 Time 11:41 Eastern Central | Collection (comp begin or grab) Date — Time —

Matrix (Salt, Fresh) | Diss. Oxygen (mg/L) 3.42

Temp (C) 16.40 | pH 6.41 | Sample Depts (m) 0.3 | Sp. Conductance (umho/cm) 58

Salinity (ppt) 0.03 | Comments

Latitude (Decimal Degrees) 30.605000 | Longitude (Decimal Degrees) -83.893257

Bottle Group(s): A, C, D

☐ Comp ☐ Grab | Collection (comp begin or grab) Date Time Eastern Central | Collection (comp begin or grab) Date Time

Matrix (Salt, Fresh) | Diss. Oxygen (mg/L)

Temp (C) | pH | Sample Depts (m) | Sp. Conductance (umho/cm)

Salinity (ppt) | Comments

Latitude (Decimal Degrees) | Longitude (Decimal Degrees)

Bottle Group(s)

Relinquished By:	Date/Time	Number of Coolers	Received By:	Date/Time
Ben Ralys	1/4/17 1:21	2	[illegible]	01-4-17 13:21

Request Number: RQ-2017-01-02-51

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Central Lab Sample Submittal Form

Customer: WQAP
Project ID: SMP

Requester: Benjamin Ralys

Collected By: Robert Wiwi Ben Ralys

Field Report Prepared By: Ben Ralys

Sampling Agency: FDEP

Chicken Branch at Old Plank Rd

STORET ↓ Q1WA0031

Field ID → Chicken Branch at Old Plank Rd Jan 04, 2017 Q1WA0031–01042017

☐ Comp ☒ Grab

Collection (comp begin or grab) Date 1/4/17 Time 8:30 Eastern Central

Collection (comp begin or grab) Date Time

Bottle Group(s): A, C

Matrix (Salt, Fresh)	Diss. Oxygen (mg/L) 3.3		
Temp (C) 17.2	pH 7.2	Sample Depts (m) 0.3	Sp. Conductance (umho/cm) 242
Salinity (ppt) 0.12	Comments		
Latitude (Decimal Degrees) 30.3261		Longitude (Decimal Degrees) -84.1481	

Lake Lafayette Drain 250 meters downstream of Weems Rd

STORET ↓ Q1WA0007

Field ID → Lake Lafayette Drain 250 meters downstream of Weems Rd Jan 04, 2017 Q1WA0007–01042017

☐ Comp ☒ Grab

Collection (comp begin or grab) Date 1/4/17 Time 9:20 Eastern Central

Collection (comp begin or grab) Date Time

Bottle Group(s): B, C

Matrix (Salt, Fresh)	Diss. Oxygen (mg/L) 8.4		
Temp (C) 18.3	pH 7.0	Sample Depts (m) 0.3	Sp. Conductance (umho/cm) 84
Salinity (ppt) 0.04	Comments		
Latitude (Decimal Degrees) 30.4544		Longitude (Decimal Degrees) -84.2204	

Alford Arm Tributary at Buck Lake Rd.

STORET ↓ Q1WA0017

Field ID → Alford Arm Tributary at Buck Lake Rd. Jan 04, 2017 Q1WA0017–01042017

☐ Comp ☒ Grab

Collection (comp begin or grab) Date 1/4/17 Time 10:00 Eastern Central

Collection (comp begin or grab) Date Time

Bottle Group(s): A

Matrix (Salt, Fresh)	Diss. Oxygen (mg/L) 3.7		
Temp (C) 16.1	pH 6.6	Sample Depts (m) 0.3	Sp. Conductance (umho/cm) 45
Salinity (ppt) 0.02	Comments		
Latitude (Decimal Degrees) 30.46363		Longitude (Decimal Degrees) -84.1715	

Relinquished By:	Date/Time	Number of Coolers	Received By:	Date/Time
Ben Ralys	1/4/17 1:21	2	AB	01-04-17 13:21

Group: B	Bottle Type:	P-500ML	# of Bottles: 2	Preservative:	ICE And H2SO4	**Enter Number of Bottles Sent to Lab**	2
	W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC						
Group: B	Bottle Type:	P-125ML	# of Bottles: 2	Preservative:	ICE-FLTR	**Enter Number of Bottles Sent to Lab**	2
	W-PO4-F						
Group: C	Bottle Type:	P-250ML-WO-THI	# of Bottles: 4	Preservative:	ICE	**Enter Number of Bottles Sent to Lab**	4
	ECOLI-18QT						
Group: D	Bottle Type:	QPCR-P-250ML	# of Bottles: 4	Preservative:	ICE	**Enter Number of Bottles Sent to Lab**	4
	PCR-FILTER						
Group: D	Bottle Type:	BG-1L	# of Bottles: 2	Preservative:	ICE	**Enter Number of Bottles Sent to Lab**	2
	W-SUC-AA-R W-UHERB-AA						
Group: E	Bottle Type:	PJ-2L	# of Bottles: 2	Preservative:	Formalin	**Enter Number of Bottles Sent to Lab**	2
	MI-FW-QLDC						

Cooler Packing Worksheet for Request: RQ-2017-01-02-51
2017 SMP Kit Template 1
Ship Cooler On: 12/21/2016 Requester: Curtis Musson
Customer/Project: WQAP/SMP Priority: 3

850-245-8453
2600 Blair Stone Rd
MS #3525
Tallahassee, FL 32399-2400

Attn: Curtis Musson

Comments:
No preservatives needed.

Group A: Freshwater Kit, No Metals
Group B: Freshwater Kit With Metals
Group C: Freshwater Bacteria - E.coli
Group D: Tracers & Markers
Group E: SCI

Requested Analyses:

Bottle Group: A # of Sites: 4

Container ID: P-1L **Qty: 4** **Preservation: ICE** **Lot #** DD065893

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

Container ID: BP-1L **Qty: 4** **Preservation: ICE** **Lot #** 1185930

Description: Brown Plastic Bottle 1L

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

Container ID: P-500ML **Qty: 2** **Preservation: HNO3** **Lot #** 00066045 (1)
00065372 (1)

Description: Plastic Bottle 500 mL Affix RED nitric acid dot to container.

Analysis	Description
W-ICP	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects
W-ICPMS	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects

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Container ID: P-500ML **Qty: 2** **Preservation: ICE And H2SO4** **Lot #** 00065372

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: 2** **Preservation: ICE-FLTR** **Lot #** 00066437 (1)
00063891 (1)

Description: Plastic Bottle 125 mL

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

Bottle Group: C # of Sites: 4

Container ID: P-250ML-WO-THI **Qty: 4** **Preservation: ICE** **Lot #** L16080

Description:

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

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Bottle Group: D # of Sites: 2

Container ID: QPCR-P-250ML **Qty: 4** **Preservation: ICE** **Lot #** ~~010~~ DRC
00064040

Description:

Analysis	Description