



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

April 2018

Data Qualified?

Yes No

WIN Station Name: Unnamed Run Upstream of Henrietta Dr

Date: 6/13/18

WIN/ Field ID: G1WA0078

WBID: 709

Latitude: 30.534138

(mm/dd/yyyy)

County: Liberty

ORG ID: 21FLWQA

Longitude: -84.774916

(Decimal Degrees)

Receiving Body of Water: Yon Creek

RQ-2018- 06-11-30

(Decimal Degrees)

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment				
Ben Ralys					X		X	X	X	☒ Sample Container	☐ Van Dorn	☐ Pole		
Will Lasley						X				☐ Carboy	☒ Syringe			
										☐ Dipper	☐ Other			
										Depth Measured with <u>meter stick</u>				
										Equipment ID				
										Collection Method				
										☒ Wading	☐ Canoe/Kayak			
										☐ From Shore	☐ Electric Motor			
										☐ Other	☐ Gasoline Motor			
Water Level: Dry/ Pooled/ Low / <u>Normal</u> / High / Flooded					Meter ID# <u>Biology #2</u>					Matrix: <u>Fresh</u> Marine / DI				
Photos: <u>Yes</u> No		Flow: No Flow / Intestinal / <u>Flowing</u> / NA			Tide: Rising/ Falling/ Slack/ <u>NA</u>			Tide Times: High <u>NA</u> Low <u>NA</u>						
Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPT)	Sp COND (µmhos/cm)	Temp. (C°)				
EST	1045	0.25	0.125	100B	7.97	89.6	3.98	0.01	29	21.12				
CEN														
Biological Samples Collected: None <u>HA</u> SCI <u>RPS</u> Algae ID <u>LVS</u> LVI Other:														
SBIO ID Numbers: SBIO-ID: <u>78448</u> HA-ID: <u>15189</u> RPS-ID: <u>9035</u> Macrophyte-ID: LIMS#: <u>2000487</u>														
Parameter Suite	Parameter Methods					Preservation	Lot#	Expiration	pH Check					
Preserved Nutrients	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP					☒ Ice ☐ H2SO4	<u>SA7341020</u>	<u>12/7/18</u>	☒ <2					
Metals	☒ W-ICPMS ☒ W-ICP					☒ Ice ☒ HNO3	<u>7261120</u>	<u>9/18/18</u>	☒ <2					
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter					☒ Ice	<u>10827054</u>							
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 ☐ Enterococci					☒ Ice								
Molecular	☐ PCR-FILTER ☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-GFD					☐ Ice								
Tracers	☐ W-E8321-DI ☐ W-E8321-MS					☐ Ice								
Pesticides	☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-E8321-DI					☐ Ice								
	☐ W-PCL-SQ-R ☐ WE8321-MS ☐ W-CARB-AA					☐ Other								

Notes:

Kit-C, Bacteria
RPS/LVS

Unnamed Run
Upstream of
Henrietta Dr

WIN ID / Field ID

G1WA0078

Signature:

Date: 6/15/18

Enter Field Parameters, Verify Station ID In LIMS DMT: 6/15/18

QC Station ID, Field Parameters In LIMS DMT: 6/15/18

Scan/Save Field Sheets 6/15/18

Migrate Data to WIN: 6/15/18

Verify Data In WIN: 6/15/18

(Initials/Date)

Entered by: ~~486~~ 6/13/18
QC: CM 6-18-18

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

S810: 78448 HA: 15189

SAMPLING AGENCY: Florida Department of Environmental Protection		STORET STATION NUMBER:	DATE (MM/DD/YY): 6/13/18	RECEIVING BODY OF WATER: YON CREEK
REMARKS:	COUNTY: Liberty	LOCATION: Unnamed Run Upstream of Hercules Dr.		FIELD ID/NAME: GIWA0078

Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components <u>Snags</u> <u>Roots</u> <u>Leaf</u> <u>Rock</u> Aquatic Vegetation	Four or more major productive habitats present (snags, tree roots, aquatic vegetation, leaf packs (partially decayed), rock)	Three major productive habitats present. Adequate habitat. Some substrates may be new fall (fresh leaves or snags)	Two major productive habitats present. Less than desirable habitat, frequently disturbed or removed	One or less major productive habitat. Lack of habitat is obvious, substrates unstable or smothered
Substrate Diversity <u>13</u>	20 19 18 17 16	15 14 <u>13</u> 12 11	10 9 8 7 6	5 4 3 2 1
Substrate Availability <u>11</u> %	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 <u>11</u>	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 <u>17</u> m/s	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 <u>17</u> 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 <u>18</u> ----- Primary Score <u>59</u>	Adequate number of stable pools (1-2 per 12 times width) and <25% of habitats affected by sand, silt, or algae. 20 19 <u>18</u> 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 <u>20</u>	Expected sinuosity given the stream width. No evidence of dredging or artificial straightening. No spoil banks. <u>20</u> 19 18 17 16	Good sinuosity within old channelized area. Evidence of dredging in the past (>25 yrs) but mostly recovered. May have spoil banks. 15 14 13 12 11	Straightened with trapezoidal cross section, but has a small degree of sinuosity developed within channelized area. May have spoil banks. 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 <u>10</u> Left Bank <u>10</u> If Banks are PipeClay, BedRock or Concrete at Bank full: Optimal	Bankfull > 60% of bank height. Slope of bank ≤ 60° from bankfull to top of bank. Bankfull is within or above the root zone with few raw, eroded areas. (+,+,+) <u>10</u> 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 <u>9</u> Left Bank <u>10</u>	Width of vegetation greater than 18 m <u>10</u> <u>9</u>	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 <u>9</u> Left Bank <u>10</u> ----- Secondary Score <u>78</u>	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

137

TOTAL SCORE

Date: <u>6/13/18</u>	Analyst: <u>Bu Ralys</u>	Signature: <u>Bu Ralys</u>
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DEP FORM FD 9000-32: LINEAR VEGETATION SURVEY FIELD SHEET

Waterbody: Unnamed Run Date: 6/13/18 County: Liberty Storet Number: GLWA0078
Analyst: Ben Roberts Signature: Ben Roberts

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 m² 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										Specimen collected (check)	HERBACEOUS SPECIES	Meter Mark										Specimen collected (check)														
	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100			0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100															
Alternanthera philoxeroides												Myriophyllum heterophyllum																									
Bacopa caroliniana												Najas guadelupensis																									
Bacopa monnieri												Nuphar luteum																									
Bidens mitis												Orontium aquaticum																									
Boehmeria cylindrica												Panicum hemitomon																									
Centella asiatica												Panicum repens																									
Ceratophyllum demersum												Panicum rigidulum																									
Chara												Peltandra virginica																									
Cicuta maculata												Pistia stratioides																									
Cladium jamaicense												Polygonum glabra																									
Colocasia esculenta												Polygonum hydropiperoides																									
Commelina diffusa												Polygonum punctatum																									
Commelina virginica												Pontedaria cordata																									
Crinum americanum												Potamogeton illinoensis																									
Diodia virginiana												Rhynchospora inundata																									
Eichhornia crassipes												Rosa palustris																									
Eleocharis (wispy viviparous)												Ruellia simplex																									
Hydrilla verticillata												Rumex verticillatus																									
Hydrocotyle												Sacciolepis striata																									
Hygrophila polysperma												Sagittaria kurziana																									
Hymenocallis												Sagittaria lancifolia																									
Lachnanthes caroliniana												Sagittaria latifolia																									
Landoltia punctata												Salvinia minima																									
Lemna												Samolus parviflora																									
Limnophila sessiflora												Saururus cernuus																									
Ludwigia leptocarpa												Scirpus (schenoplectus) californicus																									
Ludwigia palustris												Sparganium americanum																									
Ludwigia peruviana												Typha																									
Ludwigia repens												Vallisneria americana																									
Luziola fluitans												Zizania aquatica																									
Micranthemum glomeratum																																					
Micranthemum umbrosum																																					
Mikania scandens																																					
Myriophyllum aquaticum																																					
If no Dominant or Co-Dominant were selected, indicate with "X"																																					
Indicate % cover macrophytes per section												Notes:																									
0-5% Macrophyte Coverage												No aquatic macrophytes																									
>5 and ≤10% Macrophyte Coverage																																					
>10 and ≤25% Macrophyte Coverage																																					
>25 and ≤50% Macrophyte Coverage																																					
> 50% Macrophyte Coverage																																					

X < 2m²

Entered by: ~~Bob~~ 6/15/18
QC: CM 6-18-K

SRI0: 78448 RPS: 9035

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet										
Site: <u>Unnamed Run @ Henrietta Dr.</u>					County: <u>Liberty</u>		Date: <u>6/13/18</u>		Investigators: <u>Ben Rabys, Will Laster</u>	
Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover	Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover	STORET Station Number: <u>G1WA0078</u>
0	1	N		96	60	1	N		96	
	2	N								
	3	N								
	4	N								
	5	N								
	6	N								
	7	N								
	8	N								
	9	N								
10	1	N		96	70	1	N		96	
	2	N								
	3	N								
	4	N								
	5	N								
	6	N								
	7	N								
	8	N								
	9	N								
20	1	N		96	80	1	N		96	
	2	N								
	3	N								
	4	N								
	5	N								
	6	N								
	7	N								
	8	N								
	9	N								
30	1	N		96	90	1	N		96	
	2	N								
	3	N								
	4	N								
	5	N								
	6	N								
	7	N								
	8	N								
	9	N								
40	1	N		96	100	1	N		96	
	2	N								
	3	N								
	4	N								
	5	N								
	6	N								
	7	N								
	8	N								
	9	N								
50	1	N		96		1	N			
	2	N								
	3	N								
	4	N								
	5	N								
	6	N								
	7	N								
	8	N								
	9	N								

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.

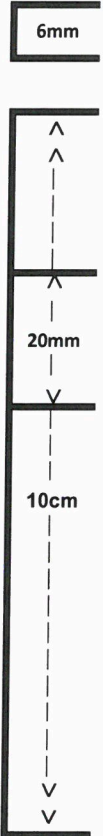
Record canopy cover as the number of small densiometer quadrants (out of 96) that HAVE canopy cover. Measure facing upstream at point 4, 5, or 6.

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%.

Secchi depth	<u>108</u>
Estimated?	<u>N</u>
# points ranked 4-6	<u>0</u>
total points assessed	<u>99</u>
% points ranked 4-6	<u>0</u>

Check accompanying data collected at same site/date.	
Algal mat sample	
Linear Veg Survey	☒
Habitat Assessment	☒
SCI/Biorecon	
Water sample	☒
RQ- <u>2018-06-11-30</u>	

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



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 ID: Biology #2

RQ- 2018-06-11-30

Project: SMP

P4

- Notes: (1) Always wait for meter to stabilize before recording any readings.
 (2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).
 (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.	Ben Ralys	6/13/18	7:01	22.33	8.69	8.69	100.0	66.5	—	(P) F	(L) F
ICV	Ben Ralys	6/13/18	7:03	22.32	8.69	8.69	100.0	66.5	—	(P) F	(L) F
CCV	Will Lasley	6/13/18	14:20	25.97	8.12	8.38	103.2	68.6	—	(P) F	(L) F
CCV										P / F	L / F

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.	Ben Ralys	6/13/18	7:04	171005D	10/2018	1,000	1,000	(P) F	(L) F
ICV	Ben Ralys	6/13/18	7:05	171005D	10/2018	1,000	1,000	(P) F	(L) F
CCV	Will Lasley	6/13/18	14:24	180326A	04/2019	100	100	(P) F	(L) F
CCV								P / F	L / F

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.	Ben Ralys	6/13/18	7:09	171005B	4/2019	7.0	6.98	21.4	(P) F	(L) F
Calibr.	Ben Ralys	6/13/18	7:11	180326C	4/2019	4.0	4.00	197.4	(P) F	(L) F
Calibr.	Ben Ralys	6/13/18	7:14	171005C	4/2019	10.0	9.95	-141.2	(P) F	(L) F
ICV	Ben Ralys	6/13/18	7:16	171005C	4/2019	10.0	9.93	-140.4	(P) F	(L) F
CCV	Will Lasley	6/13/18	14:26	180326C	04/2019	4.0	3.79	266.7	P / F	(L) F
CCV									P / F	L / F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50 ;

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

mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 _____, slope from 4 to 7 _____ (both must be between 165 and 180 mV)

Is meter equipped with depth sensor? Yes / No If yes, list date of last quarterly depth verification _____

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value meters	Pass / Fail	Lab / Field
Pressure mode in air						P / F	L / F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS:

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Customer: WAS-SECT

Project ID: SMP

Requester: Curtis Musson

Collected By:

Field Report Prepared By:

Sampling Agency: FDEP

Ben Labrs, Will Lasley
Ben Labrs, Will Lasley

Location		WIN ID / Field ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Unnamed Run		1045		Fresh		89.6		A	
Upstream of Henrietta Dr		21.12		pH 3.98		0.125		29	
Latitude 30.534138		Longitude -84.774916		Salinity (ppt) 0.01					
Location		WIN ID / Field ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Whittle Run		DID NOT SAMPLE		Fresh				A	
Upstream of CF 67		21.58		pH 5.96		0.3		34	
Latitude 30.3110		Longitude -84.7651		Salinity (ppt) 0.01					
Location		WIN ID / Field ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Big Branch 50		900		Fresh		76.3		A	
Upstream of SR 267 (Bloxham Cutoff)		22.20		pH 3.89		0.3		52	
Latitude 30.3887		Longitude -84.5844		Salinity (ppt) 0.02					

Relinquished By:

Ben Labrs

Date/Time

6/13/18

Shipping Method

hand Delivered

Number of Coolers Shipped:

3

Received By:

Date/Time

6/13/18 14:1

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Customer: WAS-SECT

Requester: Curtis Musson

Field Report Prepared By: Ben Roberts, Will Lasley

Project ID: SMP

Collected By: Ben Roberts, Will Lasley

Sampling Agency: FDEP

Location		WIN ID / Filed ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID	WIN/STORET #	Latitude	Longitude	Temp (C)	pH	Diss. Oxygen	Sample Depth	Total Res. Chlorine	Sp. Conductance
Little River 100 meters upstream of US 90	30.554619	-84.513191	dd dms	23.89	6.74	91.4	0.3	73	A
Quincy Creek 100 meters upstream of Ralph Strong Rd									
Field ID	WIN/STORET #	Latitude	Longitude	Temp (C)	pH	Diss. Oxygen	Sample Depth	Total Res. Chlorine	Sp. Conductance
30.5837	30.5837	-84.5503	dd dms	23.55	6.71	100.3	0.25	63	A, B
Quincy Creek upstream of SR 65									
Field ID	WIN/STORET #	Latitude	Longitude	Temp (C)	pH	Diss. Oxygen	Sample Depth	Total Res. Chlorine	Sp. Conductance
30.599	30.599	-84.576	dd dms	23.15	6.52	97.3	0.2	59	A, B
Juniper Creek Upstream of Juniper Creek Rd									
Field ID	WIN/STORET #	Latitude	Longitude	Temp (C)	pH	Diss. Oxygen	Sample Depth	Total Res. Chlorine	Sp. Conductance
30.531	30.531	-84.736	dd dms	22.48	5.81	54.3	0.3	82	A

Relinquished By: Ben Roberts	Date/Time: 6/13/18	Shipping Method: hand Delivered	Number of Coolers Shipped: 3	Received By: [Signature]	Date/Time: 6/13/18
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Group: C	Bottle Type: PCR-FILTER	QPCR-P-500ML	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	J
Group: C	Bottle Type: W-E8321-DI W-E8321-MS	BG-500ML	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1