

BIOASSESSMENT

RQ#: 2016-04-18-32 EventID# _____

Sampling Date: 04/18/2016 Sampling Crew: J. ASHTON S. CLINGERMAN

A. SALMERON

Site(s)/STORET #: MATTRESS DRAIN 2 (G4.SW0093)

STORET /LIMS:

Sonde: Pass/ failed CCV

Parameter(s): _____

☐ 1. Spread Sheet (LIMS Input) _____ / _____

Initials Date

☐ 2. QC 1 _____ / _____

Initials Date

☐ 3. QC 2 _____ / _____

Initials Date

☐ 4. SIM File Generated _____ / _____

Initials Date

☐ 5. STORET Upload _____ / _____

Initials Date

Biology:

SBIO ID# _____

VPDB ID# _____

☐ 6. Site and Event established in SBio?

☐ 7. Habitat Data and YSI Entered Into SBIO _____ / _____

Initials Date

☐ 8. Habitat Data and YSI QC _____ / _____

Initials Date

☐ 9. SBio data marked complete _____ / _____

Initials Date

☐ 10. Macrophyte Data Entered into VPDB _____ / _____

Initials Date

☐ 12. Field Paperwork Filed In Biology Lab _____ / _____

Initials Date

☐ 13. Macrophyte Data QC _____ / _____ 11. Macrophyte Data Marked Complete _____ / _____

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Request Number: RQ-2016-04-18-32
1329G

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Customer: SW-DIST

Requester: Judy Ashton

Field Report Prepared By: Wally Ashton

Project ID: SMP

Collected By: J. Ashton, S. Campbell, A. Starnes

Sampling Agency: FL DEP

Location	RQ-2016-04-18-32	G4SW0099	☐ Comp	Collection (comp begin or grab)	Eastern	Composite end	Bottle Group(s)
Field ID	Date: 04-18-2016	Time: 04/18/16	☒ Grab	Date 4-18-16	Time 10:45	Diss. Oxygen 5.5	Total Res. Chlorine 62
STOR#	Field ID: G4SW0099	Time: 12:45	Temp (C) 19.5	pH 4.3	Sample Depth 0.3	Sp. Conductance 105	A
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt) 0.05	Comments		
Location			☐ Comp	Collection (comp begin or grab)	Eastern	Composite end	Bottle Group(s)
Field ID	RQ-2016-04-18-32	G4SW0093	☒ Grab	Date 4-18-16	Time 12:30	Diss. Oxygen 6.8	Total Res. Chlorine 75.6
STOR#	Date: 04/18/16	Time: 12:45	Temp (C) 19.7	pH 6.8	Sample Depth 0.3	Sp. Conductance 119	A + B
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt) 6.06	Comments		
Location			☐ Comp	Collection (comp begin or grab)	Eastern	Composite end	Bottle Group(s)
Field ID	RQ-2016-04-18-32	G4SW0099	☒ Grab	Date 4-18-16	Time 12:45	Diss. Oxygen 7.3	Total Res. Chlorine 84
STOR#	Date: 04/18/16	Time: 12:45	Temp (C) 20.2	pH 7.0	Sample Depth 0.3	Sp. Conductance 120	A
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt) 0.06	Comments		
Location			☐ Comp	Collection (comp begin or grab)	Eastern	Composite end	Bottle Group(s)
Field ID			☐ Grab	Date	Time	Diss. Oxygen	Total Res. Chlorine
STOR#			Temp (C)	pH	Sample Depth	Sp. Conductance	
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt)	Comments		
Location			☐ Comp	Collection (comp begin or grab)	Eastern	Composite end	Bottle Group(s)
Field ID			☐ Grab	Date	Time	Diss. Oxygen	Total Res. Chlorine
STOR#			Temp (C)	pH	Sample Depth	Sp. Conductance	
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt)	Comments		

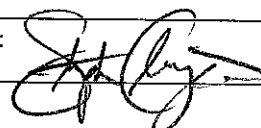
Relinquished By: Wally Ashton Date/Time: 4-18-16 5:00 Shipping Method: FLA EX Number of Coolers Shipped: 1 Received By: Wally Ashton Date/Time: 4-18-16 5:00

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

SAMPLING AGENCY: FDEP - SWROC 21FLTPA		STORET STATION NUMBER:	DATE (MM/DD/YY): 04/18/2016	RECEIVING BODY OF WATER:
REMARKS:	COUNTY: POLK	LOCATION: MATTRESS DRAIN 2	FIELD ID/NAME: G4SW0093	

Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components	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>7</u>	20 19 18 17 16	15 14 13 12 11	10 9 8 <u>7</u> 6	5 4 3 2 1
Substrate Availability <u>5</u>	Greater than 30% major productive habitat present at site 20 19 18 17 16	16% to 30% major productive habitat, by aerial extent 15 14 13 12 11	6% to 15% major productive habitat 10 9 8 7 6	Less than 5% major productive habitat <u>5</u> 4 3 2 1
Water Velocity <u>15</u>	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 <u>15</u> 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>14</u> ----- Primary Score <u>41</u>	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 <u>14</u> 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	Expected sinuosity given the stream width. No evidence of dredging or artificial straightening. No spoil banks.	Good sinuosity within old channelized area. Evidence of dredging in the past (>25 yrs) but mostly recovered.	Straightened with trapezoidal cross section, but has a small degree of sinuosity developed within channelized area.	Straightened or engineered by dredging, has trapezoidal or box cut cross section, lacks required pools. May have spoil banks.
Artificial Channelization <u>20</u>	<u>20</u> 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Bank Stability Right Bank <u>8</u> Left Bank <u>7</u>	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. 10 9	Only meets 2 of the 3 requirements for optimal bank stability. <u>8</u> <u>7</u> 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>10</u> Left Bank <u>10</u>	Width of vegetation greater than 18 m <u>10</u> 9	Width of vegetation >12 to 18m 8 7 6	Width of vegetation 6 to 12 m. human activities close to system 5 4	Less than 6 m of buffer zone due to intensive human activities 3 2 1
Riparian Zone Vegetation Quality Right Bank <u>7</u> Left Bank <u>8</u> ----- Secondary Score <u>70</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. <u>8</u> <u>7</u> 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

111 TOTAL SCORE

Date: <u>04/18/2016</u>	Analyst: <u>J. ASHTON/S. CLINGERMAN/A. SALMERON</u>	Signature: 
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FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

A-KIT
PAGE 1 OF 1

February 2016

Data Qualified?
Yes / No

STORET Station Name: MATTRESS DRAIN 2

Date: 04/18/2016
(mm/dd/yyyy)

STORET Station ID: G4SW0093

Latitude: 28°17'22.41"N
(Decimal Degrees)

WBID: 1435 RQ: 2016-04-18-32

ORG ID: 21FLTPA

Longitude: 81°56'37.61"W
(Decimal Degrees)

Receiving Body of Water: _____

Field ID: G4SW0093

County: POLK

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
ASHLEY SALMERON		X				
JUDY ACITON				X		
STEPHEN CLINGERMAN			X	X	X	X

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
	☐ Gasoline Motor

Water Level: Dry / <u>(Low)</u> / Normal / High / Flooded										Matrix: <u>(Fresh)</u> / Marine / DI	
Meter ID# <u>LIL'JON</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°)	
<u>(EST)</u>	<u>12:30</u>	<u>0.1</u>	<u>0.1</u>	<u>6.8</u>	<u>75.6</u>	<u>6.8</u>	<u>6.06</u>	<u>0.1</u>	<u>119</u>	<u>19.7</u>	
CEN								<u>"5"</u>			

Biological Samples Collected: None <u>(HA)</u> <u>(SCI)</u> <u>(YS)</u> <u>(RPS)</u> 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 ☒ H ₂ SO ₄			☒ <2	
Metals	☐ W-ICPMS ☐ W-ICP					☐ Ice ☐ HNO ₃			☐ <2	
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter					☒ Ice				
Chlorophyll	☒ CHLSUITE-W					☒ Ice				
BOD	☒ BOD-UNIN					☒ Ice				
Physical/Aggregate (KIT A)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CH-IC / W-COLOR / W-SO4-IC / W-TDS					☒ Ice				
Physical/Aggregate (KIT B)	☐ Alkalinity / W-F / W-TSS / TURBIDITY					☐ Ice				
Macroinvertebrates	☐ MI-FW-QLDC					☐ Formalin				
Microbiology	☐ E Coli ☐ F Coli ☐ Enteroc ☐ 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		<u>0.25 m/s *</u>								

Notes:

FLOW VARIES - FLASHY SYS.
NATURAL DAMS ALONG WAY

RQ-2016-04-18-32
Date: 04/18/16
Time: _____



Signature: _____

Date: 04/18/2016

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)

0.25 293

DEP-SOP-001/01: Form FD 9000-3 (9/19/12)
PHYSICAL/CHEMICAL CHARACTERIZATION FIELD SHEET

SAMPLE ID _____ ORG ID 21FLTPA LATITUDE _____
 COUNTY POLK STORET # _____ LONGITUDE _____
 DATE 04/18/2016 TIME _____ SAMPLING AGENCY FDEP-SWRDC
 SITE NAME MATRESS DRAW 2
 FIELD ID/NAME 015W0093 RECEIVING BODY OF WATER _____

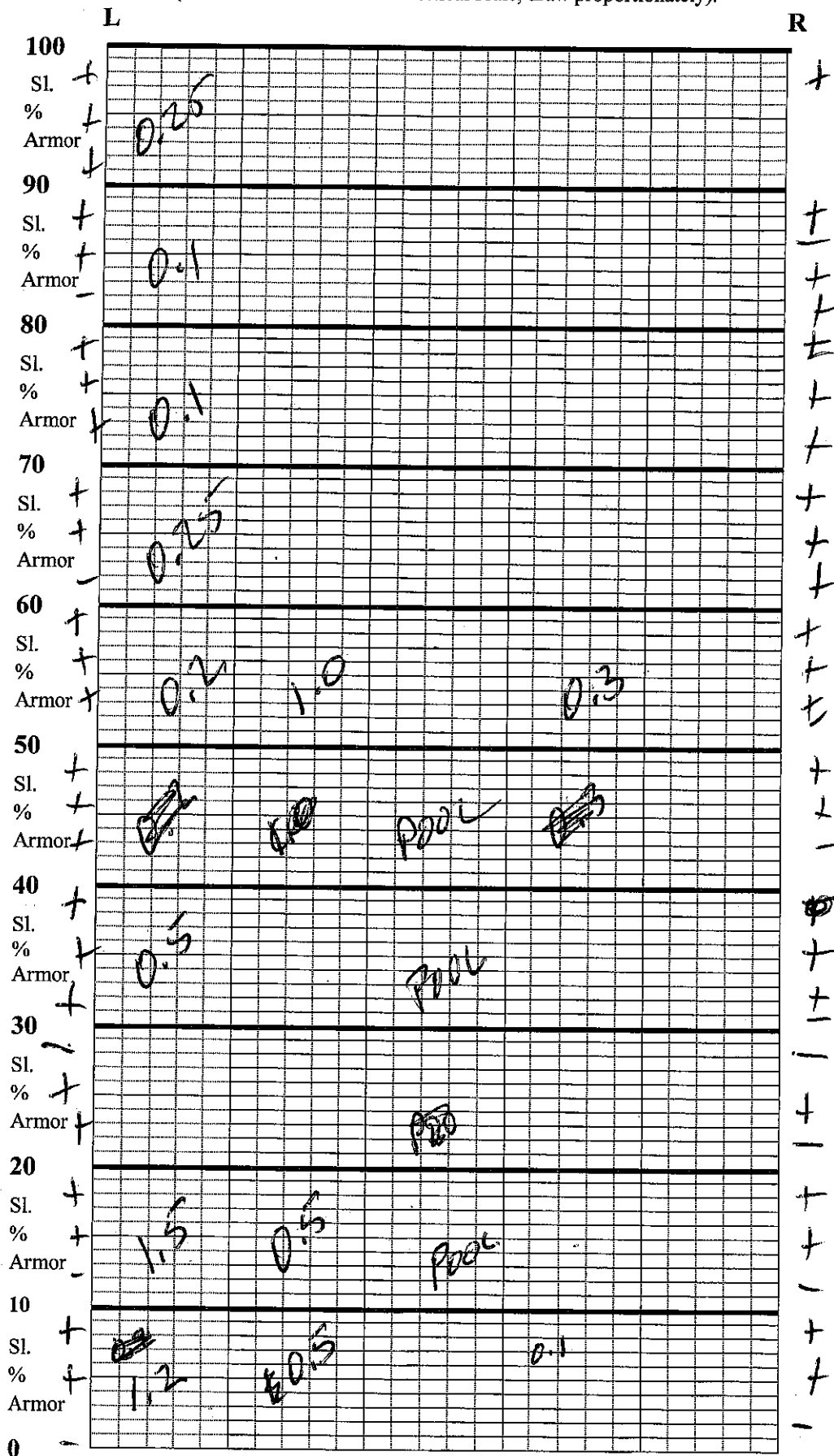
RIPARIAN ZONE / STREAM FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category): Forest/Natural <u>100</u> Silviculture _____ Field/Pasture _____ Agricultural _____ Residential _____ Commercial _____ Industry _____ Other (Specify) _____							Landscape Development Intensity Index (LDI) _____
Local Watershed Erosion (select one): ☐ None ☐ Slight ☒ Moderate ☐ Heavy				Typical Width (m) <u>1.3</u> Depth (m)/Velocity (m/sec) Transect <u>0.25</u> m/s _____ m/s _____ m/s			
Local Watershed NPS Pollution: ☒ No evidence ☐ Slight ☐ Moderate ☐ Heavy				Width of Riparian Vegetation (m) on Each Buffer Side Left Bank: <u>18+</u> Right Bank: <u>18+</u>			
Hydrologic Modification Score (per FT 3101) <u>3</u>				High Water Mark: <u>1.5</u> + <u>0.1</u> = <u>1.6</u> (m) (above present water level) (present depth) (above bed)			
Artificially Impounded ☐ Yes ☒ No				Canopy Cover % ☐ Open ☐ Lightly Shaded (11-45%) ☒ Heavily Shaded ☐ Moderate Shaded (46-80%)			
Artificially ☒ No ☐ Mostly recovered, more sinuous Channelized: ☐ Some recovery ☐ Recent, severe							

SEDIMENT / SUBSTRATE

Sediment Oils ☒ Absent ☐ Slight ☐ Moderate ☐ Profuse		Sediment Odors ☒ Normal ☐ Sewage ☐ Petroleum ☐ Chemical ☐ Anaerobic ☐ Other (Specify): _____		Smothering of Substrates Sand Smothering: None ☐ Slight ☐ Moderate ☒ Severe ☐ Silt Smothering: None ☐ Slight ☐ Moderate ☒ Severe ☐ Algae Smothering: None ☒ Slight ☐ Moderate ☐ Severe ☐	
SUBSTRATE TYPE Assessment Tool: ☒ SCI ☒ RPS ☒ LVS ☐ LCI ☐ BioRecon			WATER QUALITY Depth (M) Temp. (°C) pH (SU) D.O. (MG/L) D.O. (%) Cond. (UMHO/CM) Salinity (PPT) SECCHI (M) Top: <u>0.1</u> <u>19.7</u> <u>6.8</u> <u>6.8</u> <u>76</u> <u>119</u> <u>0.06</u> <u>0.1</u> Mid: _____ Bottom: _____ Meter ID: <u>LIL'ION</u>		
Woody Debris (Snags) _____ Undercut Banks / Roots _____ Leaf Packs or Mat _____ Aquatic Vegetation _____ Rock or Shell Rubble _____ Sand _____ Mud / Muck / Silt _____ Other _____ Other _____			Water Odors Normal ☒ Petroleum ☐ Sewage ☐ Chemical ☐ Other ☐ Water Sample Taken? ☒ Yes ☐ No Sample Preserved? ☒ Yes ☐ No Lot Number: _____ Exp: _____ Algae Sample Taken? ☐ Yes ☒ No Sample Preserved? ☐ Yes ☐ No Lot Number <u>SA-5259020</u> Exp: <u>09/14/16</u>		
ABUNDANCE Periphyton: ☒ Absent ☐ Rare ☐ Common ☐ Abundant Fish: ☐ Absent ☒ Rare ☐ Common ☐ Abundant Aquatic Plants: ☒ Absent ☐ Rare ☐ Common ☐ Abundant Iron/Sulfur Bacteria: ☒ Absent ☐ Rare ☐ Common ☐ Abundant			Water Surface Oils Normal ☐ Sheen ☒ Globs ☐ Slick ☐ Other ☐ Color Tannic ☒ Green (Algae) ☐ Clear ☐ Other (Specify) _____ Clarity Clear ☐ Slightly Turbid ☐ Turbid ☒ Opaque ☐		
System Type: Stream ☒ Lake ☐ Wetland ☐ Estuary ☐ Other (Specify) _____			WEATHER CONDITIONS / NOTES: ☐ The antecedent hydrologic conditions have been met to my best knowledge.		
SAMPLING TEAM			SIGNATURE :		
DATE :			DATE :		

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



SNAL

LEAF

Downstream

ROCK

4.0

2.0

130 m²

0.4 1.3

100 m width

0.2 m/s 100 m

Date:

Samplers:

Substrates: Code key, draw proportionate habitat abundance.



Snags

3



Roots/undercut banks



Leaf Packs (or mats)

2



Macrophytes



Rock



Total observed 590



Pools Range expected 3-4 ✓

Velocity measured at 100m meter mark.

WQ & chemistry taken at 100m 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.

1 sec per 1 m	1m/s	sec	m/s
2	0.5	12	0.08
3	0.33	13	0.076
4	0.25	14	0.071
5	0.2	15	0.066
6	0.16	16	0.062
7	0.14	17	0.058
8	0.12	18	0.055
9	0.11	19	0.052
10	0.1	20	0.052
11	0.09	21	0.047
22	0.045	NO	FLOW

Prod. hab	1	2	3	4	5
Sweeps (Maj)	10	7	5	4	3
Sweeps (Min)	10	6	5	4	5

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: <u>MATTRESS DRAIN 2</u>					County: <u>POLK</u>		Date:		Investigators: <u>J. ASHTON/S. CLINGERMAN/A. SALMERON</u>	
					STORET Station Number:					
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	
0	1	N			60	1	N			
	2					2				
	3					3				
	4					4				
	5			96		5				96
	6					6				
	7					7				
	8					8				
	9	N				9	N			
10	1	N			70	1	N			
	2					2				
	3					3				
	4					4				
	5			96		5				96
	6					6				
	7					7				
	8					8				
	9	N				9	N			
20	1	N			80	1	N			
	2					2				
	3					3				
	4					4				
	5			96		5				96
	6					6				
	7					7				
	8					8				
	9	N				9	N			
30	1	N			90	1	N			
	2					2				
	3					3				
	4					4				
	5			96		5				96
	6					6				
	7					7				
	8					8				
	9	N				9	N			
40	1	N			100	1	N			
	2					2				
	3					3				
	4					4				
	5			96		5				96
	6					6				
	7					7				
	8					8				
	9	N				9	N			
50	1	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 densimeter 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%.					
	2									
	3									
	4									
	5			96						
	6									
	7									
	8									
	9	N								

Secchi depth	<u>0.1</u>
Estimated?	

# points ranked 4-6	<u>0</u>
total points assessed	
% 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>2816-04-18-32</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

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

