

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

SAMPLING AGENCY: <u>21FLWPB</u>		STORET STATION NUMBER:	DATE (MM/DD/YY): <u>09/06/18</u>	RECEIVING BODY OF WATER:
REMARKS:	COUNTY:	LOCATION: <u>Page # @ 441</u>		FIELD ID/NAME: <u>G3SE0026</u>

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 product habitat. Lack of habitat is obvious, substrates unstat or smothered
Substrate Diversity <u>4</u>	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 <u>4</u> 3 2 1
Substrate Availability <u>4</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 5 <u>4</u> 3 2 1
Water Velocity <u>5</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 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 <u>5</u> 4 3 2 1
Habitat Smothering <u>7</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 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 <u>8</u> 7 6	Stable pools are absent. Most habitats affected by sand, silt, or algae accumulation. <u>5</u> 4 3 2 1
Primary Score <u>20</u>	20 19 18 17 16	15 14 13 12 11	10 9 <u>8</u> 7 6	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>15</u>	20 19 18 17 16	<u>15</u> 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Bank Stability	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.	Only meets 2 of the 3 requirements for optimal bank stability.	Only meets 1 of the 3 requirements for optimal bank stability.	Bankfull < 60% of bank height. Slope of bank > 60°. Bankfull is below the root zone with raw, eroded areas.
Right Bank <u>10</u> Left Bank <u>10</u>	<u>10</u> 9	8 7 6	5 4	3 2 1
Riparian Buffer Zone Width	Width of vegetation greater than 18 m	Width of vegetation >12 to 18m	Width of vegetation 6 to 12 m. human activities close to system	Less than 6 m of buffer zone due to intensive human activities
Right Bank <u>10</u> Left Bank <u>10</u>	<u>10</u> 9	8 7 6	5 4	3 2 1
Riparian Zone Vegetation Quality	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.	>50% to 80% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Some disruption in community observed.	25% to 50% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Disruption obvious.	Less than 25% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions).
Right Bank <u>6</u> Left Bank <u>6</u>	10 9	8 7 6	5 4	3 2 1
Secondary Score <u>67</u>				
<u>87</u>	TOTAL SCORE			

Date: <u>09/06/2018</u>	Analyst: <u>Drew Liddick</u>	Signature: <u>[Signature]</u>
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DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site:

Payett @ 441

County:

Date:

09/06/2008

Investigators:

Drew L. Liddick Jordan Skaggs

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	N		60	1	N	N		
	2					2				
	3					3				
	4					4				
	5					5				
	6					6				50
	7					7				
	8					8				
	9					9				
10	1				70	1				
	2					2				
	3					3				
	4					4				
	5					5				
	6					6				82
	7					7				
	8					8				
	9					9				
20	1				80	1				
	2					2				
	3					3				
	4					4				
	5					5				48
	6					6				
	7					7				
	8					8				
	9					9				
30	1				90	1				
	2					2				
	3					3				
	4					4				
	5					5				
	6					6				
	7					7				
	8					8				
	9					9				
40	1				100	1				
	2					2				
	3					3				
	4					4				
	5					5				
	6					6				14
	7					7				
	8					8				
	9					9				
50	1					1				
	2					2				
	3					3				
	4					4				
	5					5				
	6					6				
	7					7				
	8					8				
	9					9				

Secchi depth
Estimated? 0.5

points ranked 4-6
total points assessed
% points ranked 4-6

Check accompanying data collected at same site/date.

Algal mat sample

Linear Veg Survey

Habitat Assessment

SCI/Biorecon

Water sample

RQ-

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

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%.

Waterbody: Page 4 @ 441

Date: 09/24/2018

County:

Storet Number:

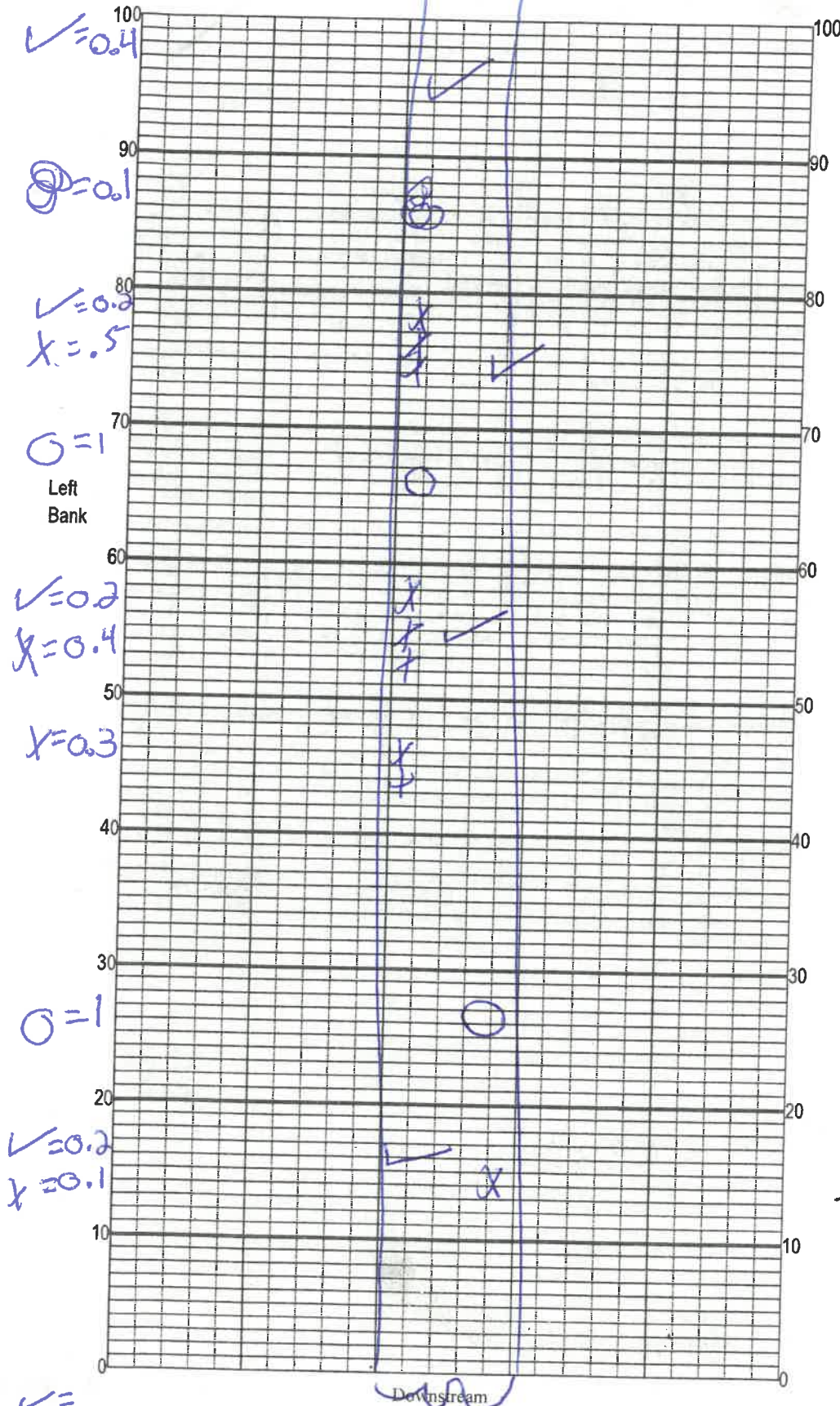
Comments:

Signature:

Metamorphic

62-160.800, F.A.C.

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



Location: Padgett @ 441

Date: 09/06/2018

Sampler: Dr. L. B. Jordan Skye

100 m: Latitude	_____
Longitude	_____
0 m: Latitude	_____
Longitude	_____
Substrates: Code key, draw proportionate habitat abundance. %	
☒ Snags	_____
☒ Roots/undercut banks	_____
☒ Leaf Packs (or mats)	_____
☐ Aquatic Macrophytes	_____
☒ ^{PL} _P	_____
☒ _{veg}	_____
☒ ^{PL} _P Pools	total # observed = <u>2</u> # range expected = _____
Average width	<u>2</u> m
Average depth	<u>0.5</u> m
Velocity measured at	<u>20.05</u> meter mark.
WQ & chemistry taken at	_____ 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.	

Plants observed / other notes:

79149

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



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

April 2018

Data Qualified?

Yes / No

WIN Station Name: Padgett Branch @ 441

Date: 09/06/2018

WIN/ Field ID: G3SE0026

WBID: 3152B

Latitude: 27.646211

(mm/dd/yyyy)

County: Osceola

ORG ID: 21FLWPB

Longitude: -80.876797

(Decimal Degrees)

Receiving Body of Water: _____

RQ-2018- 08-27-38

(Decimal Degrees)

Sampling Team Members						WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment					
<u>SKAGGS</u> <u>LIDDICK</u> <u>BONILLA</u>						☒	☒	☒	☒	☒	☒ Sample Container	☐ Van Dorn	☒ Pole			
											☐ Carboy	☐ Syringe				
											☐ Dipper	☐ Other				
											Depth Measured with <u>YST</u>					
Equipment ID <u>L1 GUS</u>						Collection Method										
						☐	☒	☐	☐	☐	☐ Wading	☐ Canoe/Kayak				
											☒ From Shore	☐ Electric Motor				
											☐ Other	☐ Gasoline Motor				
Water Level: Dry/ Pooled/ Low ☒ Normal/ High / Flooded						Meter ID# <u>L1 GUS</u>			Matrix: Fresh/ Marine/ DI							
Photos: Yes/ No		Flow: No Flow / Intestinal ☒ Flowing/ NA		Tide: Rising/ Falling/ Slack/ NA		Tide Times: High Low										
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°)						
<u>EST</u>	<u>12:00</u>	<u>0.4</u>	<u>0.3</u>	<u>0.5</u>	<u>1.55</u>	<u>20.6</u>	<u>6.55</u>	<u>0.04</u>	<u>91</u>	<u>27.96</u>						
CEN		<u>0.5</u>		<u>(5)</u>												
Biological Samples Collected: ☒ None ☒ HA ☐ SCI ☒ RPS ☐ Algae ID ☒ LVS ☐ LVI Other: _____																
SBIO ID Numbers: SBIO-ID: _____ HA-ID: _____ RPS-ID: _____ Macrophyte-ID: _____ LIMS#: _____																
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>8085170</u>	<u>3/26/19</u>	☒ <2						
Metals		☐ W-ICPMS ☐ W-ICP				☐ Ice ☐ HNO3				☐ <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 ☐ 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 ☐ W-PCL-SQ-R ☐ WE8321-MS ☐ W-CARB-AA				☐ Ice ☐ Other										

Notes:

"A" kit + E. coli → Bottle Group B
photos on DEP dig cam

Place Label Here

Signature: _____

Date: 09/06/2018

Enter Field Parameters, Verify Station ID in LIMS DMT: Am 10/2/18

QC Station ID, Field Parameters in LIMS DMT: _____

Scan/Save Field Sheets

(Initials/Date)

Migrate Data to WIN:

(Initials/Date)

Verify Data in WIN:

(Initials/Date)

(Initials/Date)