



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

WIN Station Name: McDavid Creek 100 m upstream SR99

Date: 06/10/2019
(mm/dd/yyyy)

WIN/Field ID: G5NW0150

WBID: 149

Latitude: 30.47423 30.73927
(Decimal Degrees)

County: Escambia

ORG ID: 21FLPNS

Longitude: 87.448057 87.44621
(Decimal Degrees)

Receiving Body of Water: Perdido River

RQ-2019-04-01-41

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Frank Butera					☒	☒	☒	☒	☒
Jimmy Pitts					☒	☒	☒	☒	☒
Myranda Clark					☒	☒	☒	☒	☒

Sampling Equipment		
☒ Sample Container	☐ Van Dorn	☐ Pole
☐ Carboy	☒ Syringe	
☐ Dipper	☐ Other	
Depth Measured with <u>YSI</u>		
Equipment ID		

Collection Method		
☒ Wading	☐ Canoe/Kayak	
☐ From Shore	☐ Electric Motor	
☐ Other	☐ Gasoline Motor	

Water Level: Dry/ Pooled/ Low / Normal / High / Flooded
Photos: Yes No Flow: No Flow / Intestinal / Flowing / NA
Meter ID# 154179 Matrix: Fresh / Marine / DI
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°)
EST	09:50	0.6	0.3	0.6	7.25	83.1	4.93	0.01	22.3	22.4
CEN				"5"						

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

SBIO ID Numbers: SBIO-ID: 79796 HA-ID: 16036 RPS-ID: 9366 Macrophyte-ID: N/A 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>6A8274050</u>	<u>10/01/19</u>	☒ <2
Metals	☒ W-ICPMS ☒ W-ICP	☒ Ice ☒ HNO3	<u>NA8274050</u>	<u>12/10/19</u>	☒ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice	<u>66570048</u>		
Chlorophyll	☒ CHLSUITE-W	☒ Ice			
Physical/Aggregate (Fresh)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CH-IC / W-COLOR / W-SO4-IC / W-TDS	☒ Ice			
Physical/Aggregate (Marine)	☐ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates	☒ MI-FW-QLDC	☒ Formalin			
Periphyton	☒ ALGAE-ID	☒ Ice			
Microbiology	☒ E Coll ☐ F Coll ☐ Enterococci	☒ Ice			
Molecular	☐ PCR-FILTER ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-HF183 ☐ PCR-DG3 ☐ PCR-GFD	☐ Ice			
Tracers	☒ W-E8321-DI ☒ W-E8321-MS	☒ Ice			
Pesticides	☒ W-PSNP-TQ	☒ Ice			
Phytoplankton	☐ DTY-QN-C ☐ PKD-QN-C	☐ Ice			

Notes: NA 8344050 Exp. 12/10/2019
Survey Ecology Ref

Field/WIN ID → G5NW0150

Location: McDavid Creek 100 m upstream SR 99

Signature: Myranda Clark Date: 6/10/19

LIMS EVENT ID: _____ WIN Import ID: _____

Enter Field Parameters, Verify Station ID In LIMS DMT: _____ QC Station ID, Field Parameters In LIMS DMT: _____

Scan/Save Field Sheets _____ Migrate Data to WIN: _____ Verify Data In WIN: _____

(Initials/Date) (Initials/Date) (Initials/Date)

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

SAMPLE ID 79796 ORG ID 21FLPNS LATITUDE 30.73927
 COUNTY Escambia WIN ID/STORET # G5NW0150 LONGITUDE -87.44821
 DATE 06/10/2019 TIME 9:50 CTZ SAMPLING AGENCY FL DEP - NWROC
 SITE NAME McDavid Creek 100 m upstream SR99 RQ-2019-04-01-41
 FIELD ID/NAME G5NW0150 RECEIVING BODY OF WATER Perdido River WBID 149 Project: Ecolog Ref Streams

RIPARIAN ZONE / STREAM FEATURES

LIMS ID:

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category): Forest/Natural ☒ Silviculture ☒ Field/Pasture ☒ Agricultural ☒ Residential ☒ Commercial ☐ Industry ☐ Other (Specify) ☐							Landscape Development Intensity Index (LDI) <u>Not Available</u>
Local Watershed Erosion (select one): ☐ None ☐ Slight ☐ Moderate ☐ Heavy Local Watershed NPS Pollution: ☐ No evidence ☐ Slight ☐ Moderate ☐ Heavy				Typical Width (m) <u>70</u> Depth (m) <u>6</u> Velocity (m/sec) <u>0.33</u> Transect <u>6</u> m wide			
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank: <u>718</u> Right Bank: <u>718</u>				Hydrologic Modification Score (per FT 3101) <u>1-2</u>			
High Water Mark: <u>1.8</u> + <u>1.5</u> = <u>3.3</u> (m) (above present water level) (present depth) (above bed)				Artificially Impounded ☐ Yes ☒ No			
Artificially ☒ No ☐ Mostly recovered, more sinuous Channelized: ☐ Some recovery ☐ Recent, severe				Canopy Cover % ☐ Open ☐ Lightly Shaded (11-45%) ☒ Heavily Shaded ☐ Moderate Shaded (46-80%)			

SEDIMENT / SUBSTRATE

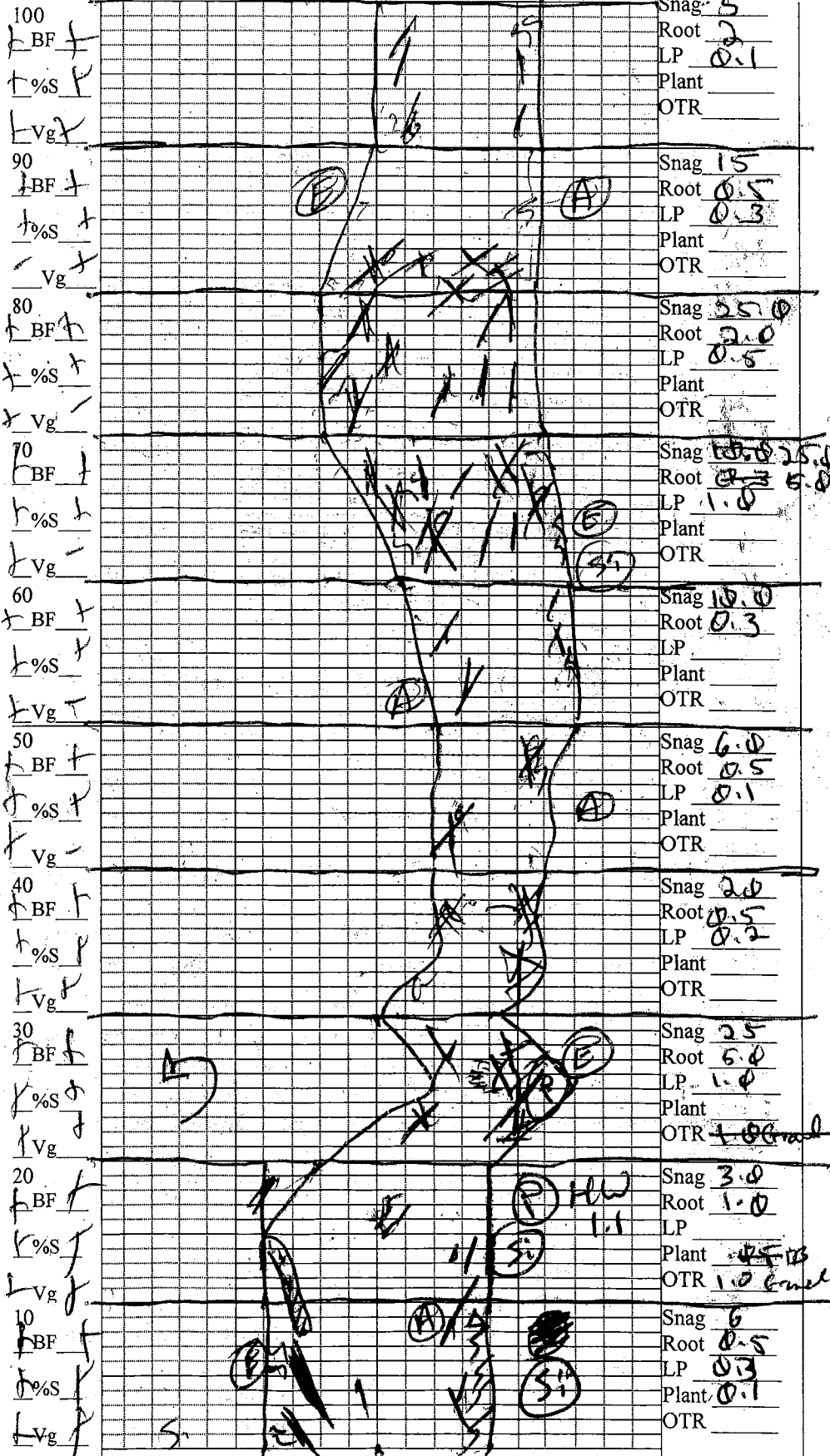
Sediment Oils ☒ Absent ☐ Slight ☐ Moderate ☐ Profuse		Sediment Odors ☒ Normal ☐ Sewage ☐ Petroleum ☐ Chemical ☐ Anaerobic ☐ Other (Specify):		Smothering of Substrates Sand Smothering: None ☐ Slight ☒ Moderate ☐ Severe ☐ Silt Smothering: None ☐ Slight ☒ Moderate ☐ Severe ☐ Algae Smothering: None ☒ Slight ☐ 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. Sat (%) Cond. (UMHO/CM) Salinity (PPT) SECCHI (M) Top: <u>0.3</u> <u>22.4</u> <u>4.93</u> <u>7.25</u> <u>83.1</u> <u>22.3</u> <u>0.01</u> <u>0.6</u> Mid: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☒ VOB Bottom: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ Meter ID: <u>154179</u> TOTAL DEPTH <u>9.6</u>			
Woody Debris (Snags) <u>22</u> <u>5</u> Undercut Banks / Roots <u>13.6</u> <u>5</u> <u>3.0</u> Leaf Packs or Mat <u>0.5</u> <u>5</u> Aquatic Vegetation ☐ ☐ Rock or Shell Rubble ☐ ☐ Sand <u>74.1</u> <u>84</u> Mud / Muck / Silt ☐ ☐ Other <u>Gravel</u> <u>0.2</u> <u>1</u> Other ☐ ☐		Water Odors Normal ☒ Petroleum ☐ Sewage ☐ Chemical ☐ Other ☐		Water Surface Oils Normal ☒ Sheen ☐ Globbs ☐ Slick ☐ Other ☐	
Water Sample Taken? ☒ Yes ☐ No Sample Preserved? ☐ Yes ☐ No Lot Number: Exp:		Color Tannic ☒ Green (Algae) ☐ Clear ☐ Other (Specify) ☐		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: <u><2m² Vegetation</u> <u>Yellow Flies!</u> ☒ The antecedent hydrologic conditions have been met to my best knowledge.			
SAMPLING TEAM: Frank Butera, Jimmy Pitts, <u>Myranda Clark</u>		SIGNATURE: <u>[Signature]</u>		DATE: <u>06/10/2019</u>	

Stream/River Habitat Sketch Sheet, Form FD 9000-4 (June 1, 2001)

Length of grid represents 100 m of stream (not linear meters).

(Horizontal scale is double vertical scale, draw proportionately).

SB10 ZD 79796



WIN ID G5NW0150

Substrates: Code key, draw proportionate habitat abundance.

☒ Snags $\frac{144}{650} = 22.3\%$

☒ Roots/undercut banks $\frac{198}{650} = 3.0\%$

☒ Leaf Packs (or mats) $\frac{3.5}{650} = 0.5\%$

☒ Macrophytes

☒ Sand Bar
☒ Pool
☒ Erosion
☒ Gravel

Velocity:

Note where velocity measures were taken. 74m

Habitat Smothering:

Note areas (on map) where sand or silt is something 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.

Average width 6.5 m

Average depth 0.5 m

WQ & chemistry taken @ 0 m

Black Creek @ SR 20 West of Bruce McDonald Creek
 Project Reference Streams
 Sampled By/Date: 6/10/2019
 F.B. Clark

0 m Latt. 30.73927

0 m Long. 87.44821

100 m Latt. 30.73963

100 m Long. 87.44767

0-10 meter [A]	Habitat Area (M)	Left Bank	Right Bank
	Snag 1.8	Bankfull	Bankfull
0m width (m) 8	Root 2.0	+	+
10m width 8	Leaf 1.3	Slope	Slope
Avg. Depth 0.4	Veg .01	+	+
Max Depth 0.8	Gravel	Veg	Veg
Rip. Buff L 718	Rock	+	+
Rip. Buff R 718	(S) (E)		

10-20 meter [B]	Habitat Area (M)	Left Bank	Right Bank
	Snag 3.8	Bankfull	Bankfull
20m width 5	Root 1.8	+	+
	Leaf -	Slope	Slope
Avg. Depth 0.4	Veg -	+	+
Max Depth 1.1	Gravel 1.0	Veg	Veg
Rip. Buff L 718	Rock	+	+
Rip. Buff R 718	(S) (E)		

20-30 meter [C]	Habitat Area (M)	Left Bank	Right Bank
	Snag 2.5	Bankfull	Bankfull
30m width 4	Root 5	+	+
	Leaf 1.0	Slope	Slope
Avg. Depth 0.8	Veg -	+	+
Max Depth 1.1	Gravel -	Veg	Veg
Rip. Buff L 718	Rock -	+	+
Rip. Buff R 718	(E) HW 1.8		

30-40 meter [D]	Habitat Area (M)	Left Bank	Right Bank
	Snag 2.4	Bankfull	Bankfull
40m width 6	Root 0.6	+	+
	Leaf 0.2	Slope	Slope
Avg. Depth 0.4	Veg -	+	+
Max Depth 0.6	Gravel	Veg	Veg
Rip. Buff L 718	Rock	+	+
Rip. Buff R 718			

40 - 50 meter [E]	Habitat Area (M)	Left Bank	Right Bank
	Snag 6	Bankfull	Bankfull
50m width 8.0	Root 0.5	+	+
	Leaf 0.1	Slope	Slope
Avg. Depth 0.4	Veg	+	+
Max Depth 1.1	Gravel	Veg	Veg
Rip. Buff L 718	Rock	+	+
Rip. Buff R 718	(E) (M)		

Bank Stability Score. Left Bank 2.7 Right Bank 2.9 Category Left Bank Optimal Right Bank Optimal
 Add all plus signs (Max. 30 possible) and Divide by 10. Scoring. Poor: 0.0 - 0.9 pts. Marginal: 1.0-1.9 pts. Suboptimal: 2.0 - 2.4 Optimal: 2.5-3.0

Notes. SBID ID 79796

50-60 meter [F]	Habitat Area (M)	Left Bank	Right Bank
	Snag 1.0	Bankfull	Bankfull
60m width 6	Root 0.3	+	+
	Leaf	Slope	Slope
Avg. Depth 0.4	Veg	+	+
Max Depth 1.1	Gravel	Veg	Veg
Rip. Buff L 718	Rock	+	-
Rip. Buff R 718	E & A		

60-70 meter [G]	Habitat Area (M)	Left Bank	Right Bank
	Snag 2.5	Bankfull	Bankfull
70m width 6	Root 5	+	+
	Leaf 1	Slope	Slope
Avg. Depth 0.3	Veg 1.5	+	+
Max Depth 1.0	Gravel	Veg	Veg
Rip. Buff L 718	Rock	+	-
Rip. Buff R 718			

70-80 meter [H]	Habitat Area (M)	Left Bank	Right Bank
	Snag 2.5	Bankfull	Bankfull
80m width 8	Root 2	+	+
	Leaf 0.5	Slope	Slope
Avg. Depth 0.4	Veg	+	+
Max Depth 1.0	Gravel	Veg	Veg
Rip. Buff L 718	Rock	+	-
Rip. Buff R 718	E & S		

80-90 meter [I]	Habitat Area (M)	Left Bank	Right Bank
	Snag 1.5	Bankfull	Bankfull
90m width 6	Root 0.3	+	+
	Leaf 0.3	Slope	Slope
Avg. Depth 0.6	Veg	+	+
Max Depth 1.1	Gravel	Veg	Veg
Rip. Buff L 718	Rock	-	+
Rip. Buff R 718	A & E		

90 - 100 meter [J]	Habitat Area (M)	Left Bank	Right Bank
	Snag 5	Bankfull	Bankfull
100m width 6	Root 2	+	+
	Leaf 0.1	Slope	Slope
Avg. Depth 0.8	Veg	+	+
Max Depth 1.5	Gravel	Veg	Veg
Rip. Buff L 718	Rock	+	+
Rip. Buff R 718			

McDavid Creek 100 m upstream SR99

Storet: G5NW0150

Date 6/10/2019

0 meter (Dec Deg)

30.73927
87.44021

100 meter (Dec Deg)

30.73963
87.44767
Water Quality Measured at 25,

Stream Velocity and location.

133 m/s 70 meter mark

Number of Pools & Location

High Water: 1.8

Silt smothering @

A, H

Sand Smothering @

Algae Smothering @

A, E, F

Degraded Banks @

A, E, F, H, I

Fe/Sulfur Bact. @

Total Habitat	Sq. Meters	Percent
Snags	144	22.0
Roots	19.8	3.0
Leaf	3.5	0.5
Veg	0.05	-
Rock		
Gravel	1.0	0.2
Sand	491.7	74.1
Other		
Sum 1° Habitat		25.7

Avg. Depth	Max. Depth	Avg. Width
0.5	1.5	6.5

2.6+

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

SAMPLING AGENCY: 21FLPNS		STORET STATION NUMBER: G5NW0150	DATE (MM/DD/YY): 06/10/19	RECEIVING BODY OF WATER: Perdido River
REMARKS: WBID 149	COUNTY: Escambia	LOCATION: Black Ck Upstream of Hwy 20		FIELD ID/NAME: G5NW0150

Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components Substrate Diversity <u>12</u>	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 <u>12</u> 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 <u>13</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 <u>13</u> 12 11	6% to 15% major productive habitat 10 9 8 7 6	Less than 5% major productive habitat 5 4 3 2 1
Water Velocity <u>20</u>	Max. observed at typical transect: >0.25 m/sec. But < 1 m/sec ≥0.33 0.31 0.29 0.27 >0.25 <u>20</u> 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 <u>19</u> Primary Score <u>64</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 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. 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 <u>10</u> Left Bank <u>9</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. <u>10</u> <u>9</u>	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>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>10</u> Left Bank <u>10</u> Secondary Score <u>79</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. <u>10</u> 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

143

TOTAL SCORE

Date: <u>06/10/2019</u>	Analyst: <u>F. Butera</u>	Signature: <u>[Signature]</u>
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SBIO ID: 79796

HA ID: 16036

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: McDavid Creek 100 m upstream SR99

County:
Escambia

Date:
06/10/2019

Investigators: F. Butera, M. Clark

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			96		4			96
	5					5			
	6					6			
	7					7			
	8					8			
	9					9			
10	1	N	N		70	1	N	N	
	2					2			
	3					3			
	4			85		4			96
	5					5			
	6					6			
	7					7			
	8					8			
	9					9			
20	1	N	N		80	1	N	N	
	2					2			
	3					3			
	4			96		4			96
	5					5			
	6					6			
	7					7			
	8					8			
	9					9			
30	1	N	N		90	1	N	N	
	2					2			
	3					3			
	4			63		4			96
	5					5			
	6					6			
	7					7			
	8					8			
	9					9			
40	1	N	N		100	1	N	N	
	2					2			
	3					3			
	4			80		4			96
	5					5			
	6					6			
	7					7			
	8					8			
	9					9			
50	1	N	N						
	2								
	3								
	4			96					
	5								
	6								
	7								
	8								
	9								

STORET Station Number:
G5NW0150

Secchi depth 0.6
Estimated? No

points ranked 4-6 4
total points assessed 99
% 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-2019-04-01-41

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 Visit ID. 79796

RPS ID. 9366

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%.

Waterbody: McDavid Creek 100 m upstream SR99	Date: 6/10/2019	County: Escambia	Storet Number: G5NW0150
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M. Clark

Date: 6/10/2019

County: Escambia

Storet Number: G5NW0150

Analyst: F. Butera *M. Clark* Signature:

Signature:

Comments:

ultra M. Clark
 $< 2 m^2$ vegetation

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.

Field ID	65NW0150	RPS ID	9366	SBIO ID	79796	VPDB ID	N/A
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LIMS ID

~~62-160,800, F.A.C.~~

RPS ID 9366

SBIO ID 79796

VPDB ID N/A

RQ-2019-04-01-41

Revision Date: March 1, 2014

Photo Log

Storet G5NW0150

Station Name: McDavid Creek 100 m upstream SR99

Date:

Samplers. F. Butera,

- 1 G5NW0150 - Upstream - 0 meter
- 2 Downstream
- 3 North
- 4 ~~So~~ East
- 5 South
- 6 West
- 7 _____
- 8 _____
- 9 _____
- 10 _____
- 11 _____
- 12 _____
- 13 _____
- 14 _____
- 15 _____
- 16 _____
- 17 _____

Notes.