

**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION**

STRATEGIC MONITORING PLAN Field Sheet

July 2022

Meter
Passed End
of Day CCV

Yes / No

WIN Station Name:		Eagle Creek upstream of Hwy 20				Sample Date:		10/18/2022	
WIN / Field ID:	G3NW0151	ORG ID:	21FLPNS	ENR:	-	Latitude:	30.46382		
County:	Walton	WBID:	751	ESTUARY	2	Longitude:	-86.376215		
Receiving Body of Water:						-	RQ-	2022-10-17-31	

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Frank Butera			x		
Nathan Mulkey	x	x	x	x	

Sampling Equipment			
x	Sample Container	Carboy	
	Dipper	Van Dorn	
	Syringe	Pole	
Syringe Lot#		Filter Lot#	
Secchi Equipment ID:			
Collection Method			
x	Wading	Canoe/Kayak	
	From Shore	Electric Motor	
		Gasoline Motor	
Depth Measured With <i>Meter</i>			

Water Level:	Normal
Flow:	NA
Matrix:	Fresh
Tide Stage:	
High Tide:	
Low Tide:	
Photos:	Yes
Meter ID:	154179 (ProDSS)

Time Zone	Time	Total Depth (m)	Sample Depth (m)	DO (mg/L)	DO (%SAT)	Temp. (°C)	pH	Secchi Disk (m)	Sp COND (µmhos/cm)	Salinity (PPTth)
CEN	950	0.6	0.3	4	41.3	18.9	5.75	0.6	122	0.06
								VOB (s)		

Biological Samples Collected:		HA LVS RPS SCI								
SBIO Visit ID: 85833	HA ID: 18042	RPS ID: 9994	Macrophyte ID: 12328	LIMS Sample ID Entered Into The Macrophyte Module: 2363640						

Parameter Suite	Parameter Methods (LIMS Test Codes)			Preservation							
				Type	Lot#	Expiration Date	pH Check				
Microbiology											
Chlorophyll	CHLSUITE-W			ICE							
Physical/Aggregate Nutrients	ALKALINITY, TURBIDITY, W-F, W-TSS			ICE							
	W-CL-IC, W-COLOR, W-SO4-IC, W-TDS			ICE							
Filtered Nutrients	W-PO4-F	Field Filtered 0.45 µm Filter		ICE	Syringe Lot#; Filter Lot#:						
Acid Preserved Nutrients	W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP			ICE	H2SO4*	2145160	6/2/23				
Metals	W-ICPMS	W-ICP	W-HARD	ICE	HNO3**	1286110	11/16/22				
Organics (LC)	W-E8321-DI	W-E8321-MS			MCAA***						
Macroinvertebrates	MI-FW-QLDC			Formalin	8280122						
Organics (GC)	W-PSNP-TQ			Ice	*2.0 ml of H2SO4 Used Unless Noted Otherwise **2.0 ml of HNO3 Used Unless Noted Otherwise						
Molecular											
Periphyton											
Phytoplankton											
BOD											
DOC					SyringeLot#	FilterLot#					
Other(s)											
Field Comments:	/ SCI Collection Time: 1100										
Comments on COC:											
Relinquish Date:	10/18/2022	Signature:									

LIMS EVENT ID: _____ WIN Import ID: _____

Enter Field Parameters, Verify Station ID In LIMS DMT: _____
(Initials/Date)QC Station ID, Field Parameters In LIMS DMT: _____
(Initials/Date)Save Field Sheets on Network: _____
(Initials/Date)Migrate Data to WIN: _____
(Initials/Date)

Site Name: Eagle Creek
Field ID G3NWO151 WIN-ID G3NWO151
Visit ID 85833
RPS ID 9994
Macro ID 12328
HA ID 18042

Date: 10/18/22
Project: Smp
RQ: 2022-10-17-31
LIMS ID: 2363640
WBID: 751

☒ SCI

☐ RPS/LVS Only

☒ Sample Site Created in SBIO

☒ Phys/Chem entered in SBIO

☒ HA entered in SBIO Initial SS

☒ Date and Initial QA: FB, 12/12/22

☒ RPS entered in SBIO Initial SS

☒ Date and Initial QA: FB, 12/12/22

☒ LVS entered in SBIO Initial SS

☒ Date and Initial QA: FB, 12/14/22

☐ < 2 m² vegetation

☒ Plants getting verified

Date submitted: In House

☒ Plants verified

Date returned: In House

☒ RPS authorized in SBIO

☒ Date and Initial: FB 12/12/2022

☒ RPS score: 0

☒ Macro authorized in SBIO

☒ Date and Initial: FB 12/19/2022

☒ LVS Score: FLEPPC = 0%, Avg. CofC = 5.46

☒ SCI complete: T. Risk

SCI Score: 43

☒ Add SBIO-ID, HA-ID, RPS-ID, MACROPHYTE-ID and LIMS# to field sheet in database

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

SAMPLE ID 85833 ORG ID 21 FL PWS LATITUDE 30.46382129
 COUNTY Walton WIN ID/STORET # G3NW0151 LONGITUDE 86.3762151
 DATE 10/18/2022 TIME 9:50 CTZ SAMPLING AGENCY FL DEP - NWROC
 SITE NAME Eagle Creek Upstream of Hwy 20 ~~RQ-2020~~ RQ-2022-10-17-31
 FIELD ID/NAME G3NW0151 RECEIVING BODY OF WATER WBID 751 Project: SMP

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>N/A</u>
Local Watershed Erosion (select one): ☐ None ☐ Slight ☒ Moderate ☐ Heavy Local Watershed NPS Pollution: ☐ No evidence ☐ Slight ☒ Moderate ☐ Heavy								Typical Width (m) Depth (m)/Velocity (m/sec) Transect <u>15</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>3-4</u>				0.05 m/s <u>—</u> m/s <u>—</u> m/s
High Water Mark: <u>1.0</u> + <u>71.5</u> = <u>2.6</u> (m) (above present water level) (present depth) (above bed)				Artificially Impounded ☒ Yes ☐ No <u>culvert</u>				1.0 m deep <u>—</u> m deep <u>—</u> m deep
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

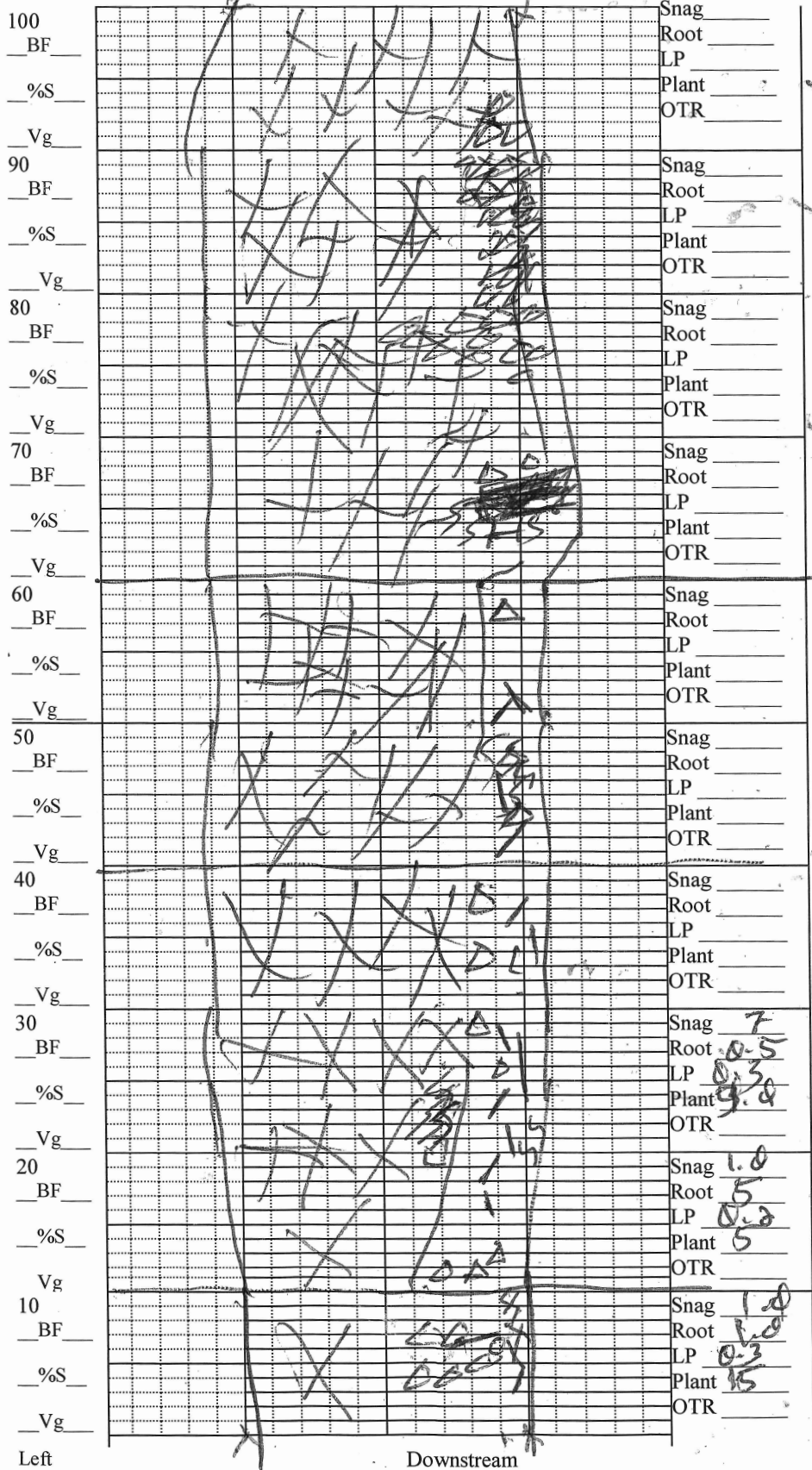
Sediment Oils ☐ Absent ☐ Slight ☐ Moderate ☒ Profuse			Sediment Odors ☐ Normal ☐ Sewage ☐ Petroleum ☐ Chemical ☒ Anaerobic ☐ Other (Specify):			Smothering of Substrates Sand Smothering: None ☒ Slight ☐ Moderate ☐ Severe ☐ Silt Smothering: None ☐ Slight ☐ Moderate ☐ Severe ☒ Algae Smothering: None ☐ Slight ☐ 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>18.9</u>	<u>5.75</u>	<u>4.0</u>	<u>41.3</u>	<u>122</u>	<u>0.06</u>	<u>0.6</u>
Mid:			<u>0.3</u>							☒ VOB
Bottom:										
Meter ID: <u>154179</u>			TOTAL DEPTH <u>0.6</u>							
Woody Debris (Snags) <u>1.5</u> <u>5</u> Undercut Banks / Roots <u>1.7</u> <u>5</u> Leaf Packs or Mat <u>0.1</u> <u>0.1</u> Aquatic Vegetation <u>9.2</u> <u>5</u> Rock or Shell Rubble <u></u> <u></u> Sand <u></u> <u></u> Mud / Muck / Silt <u>87.5</u> <u>4</u> Other <u></u> <u></u> Other <u></u> <u></u>			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) ☒ <u>Fe Sulfur (red)</u>				
			Algae Sample Taken? ☐ Yes ☒ No Sample Preserved? ☐ Yes ☐ No Lot Number: Exp:			Clarity Clear ☐ Slightly Turbid ☐ Turbid ☒ Opaque ☐				
ABUNDANCE Not Obs. Rare Common Abundant			System Type: Stream ☒ Lake ☒ Wetland ☒ Estuary ☐ Other (Specify) ☐							
Periphyton: ☐ ☐ ☐ ☒ Fish: ☐ ☐ ☐ ☒ Aquatic Plants: ☐ ☐ ☐ ☒ Iron/Sulfur Bacteria: ☐ ☐ ☐ ☒			AMBIENT FIELD CONDITIONS / NOTES: Lentic system with minimal flow and flooded out of banks. Likely by culvert. Entire stretch out of banks. Only able to access from bank. ☒ The antecedent hydrologic conditions have been met to my best knowledge.							
SAMPLING TEAM: <u>Nathan Mulkey, Frank Butore</u>			SIGNATURE: 			DATE: <u>10/18/2022</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).

East Creek above HWY 20



Substrates: Code key, draw proportionate habitat abundance.

☒ Snags $\frac{23}{1500} = 1.5\%$

☒ Roots/undercut banks $\frac{24}{1500} = 1.7\%$

☒ Leaf Packs (or mats) $\frac{1.2}{1600} = 0.1\%$

☒ Macrophytes $\frac{137}{1500} = 9.2\%$

☒ Not Accessible due to veg, much, w/ water level

Velocity: Not Accessible
Note where velocity measures were taken. banks

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 15 m
Average depth ? m
WQ & chemistry taken @ Q m

Storet. G3NW0151
Field ID. G3NW0151

Date: 10/18/2022
Sampled By: F. B. Smith, N. M. M. M.
Plants observed/other notes:

Only Pinus from bank was accessible for reach. Bank not stream channel, not accessible from 80m to 100m.

Eagle Creek above Hwy 26

0-10 meter [A]	Habitat Area (M)	Left Bank	Right Bank
	Snag 1	Bankfull	Bankfull
0m width (m)	Root 10.1	+	+
10m width	Leaf 0.3	Slope	Slope
Avg. Depth 7	Veg 15	+	+
Max Depth	Gravel	Veg	Veg
Rip. Buff L 710	Rock	+	+
Rip. Buff R 710	Si, Al, Fe		

10-20 meter [B]	Habitat Area (M)	Left Bank	Right Bank
	Snag 1.0	Bankfull	Bankfull
20m width	Root 5	+	+
	Leaf 0.2	Slope	Slope
Avg. Depth 7	Veg 5	+	+
Max Depth	Gravel	Veg	Veg
Rip. Buff L 710	Rock	+	+
Rip. Buff R 710	Si, Al, Fe		

20-30 meter [C]	Habitat Area (M)	Left Bank	Right Bank
	Snag 7	Bankfull	Bankfull
30m width	Root 0.5	+	+
	Leaf 0.3	Slope	Slope
Avg. Depth	Veg 4.0	+	+
Max Depth	Gravel	Veg	Veg
Rip. Buff L	Rock	+	+
Rip. Buff R	Si, Al, Fe		

30-40 meter [D]	Habitat Area (M)	Left Bank	Right Bank
	Snag 6	Bankfull	Bankfull
40m width	Root 1.0	+	+
	Leaf 0.3	Slope	Slope
Avg. Depth	Veg 1.0	+	+
Max Depth	Gravel	Veg	Veg
Rip. Buff L	Rock	+	+
Rip. Buff R	Si, Al, Fe		

40 - 50 meter [E]	Habitat Area (M)	Left Bank	Right Bank
	Snag 3.0	Bankfull	Bankfull
50m width	Root 1.0	+	+
	Leaf 2.0	Slope	Slope
Avg. Depth	Veg 2.0	+	+
Max Depth	Gravel	Veg	Veg
Rip. Buff L	Rock	+	+
Rip. Buff R			

50-60 meter [F]	Habitat Area (M)	Left Bank	Right Bank
	Snag 2.0	Bankfull	Bankfull
60m width	Root 3.0	+	+
	Leaf 0.1	Slope	Slope
Avg. Depth	Veg 1.5	+	+
Max Depth	Gravel	Veg	Veg
Rip. Buff L	Rock	+	+
Rip. Buff R	Si, Al, Fe		

60-70 meter [G]	Habitat Area (M)	Left Bank	Right Bank
	Snag 2.0	Bankfull	Bankfull
70m width	Root 0.5	+	+
	Leaf 0.1	Slope	Slope
Avg. Depth	Veg 2.0	+	+
Max Depth	Gravel	Veg	Veg
Rip. Buff L	Rock	+	+
Rip. Buff R	Si, Al, Fe		

70-80 meter [H]	Habitat Area (M)	Left Bank	Right Bank
	Snag 1	Bankfull	Bankfull
80m width	Root 1.0	+	+
	Leaf 0.1	Slope	Slope
Avg. Depth	Veg 2.0	+	+
Max Depth	Gravel	Veg	Veg
Rip. Buff L	Rock	+	+
Rip. Buff R	Si, Al, Fe		

80-90 meter [I]	Habitat Area (M)	Left Bank	Right Bank
	Snag 1.0	Bankfull	Bankfull
90m width	Root 3.0	+	+
	Leaf 0.1	Slope	Slope
Avg. Depth	Veg 3.0	+	+
Max Depth	Gravel	Veg	Veg
Rip. Buff L	Rock	+	+
Rip. Buff R	Si, Fe, Al		

90 - 100 meter [J]	Habitat Area (M)	Left Bank	Right Bank
	Snag	Bankfull	Bankfull
100m width	Root	+	+
	Leaf	Slope	Slope
Avg. Depth	Veg 3.0	+	+
Max Depth	Gravel	Veg	Veg
Rip. Buff L	Rock	+	+
Rip. Buff R	Si, Al, Fe		

Storet: G3NWD151
Date 10/18/2022

0 meter (Dec Deg)
30.46393
-86.37632
100 meter (Dec Deg)
30.46453
-86.37691
Water Quality Measured at
0m
Stream Velocity and location.
0.5 m/s 0 meter mark

Number of Pools & Location

High Water: 1.0

Silt smothering @

A-J

Sand Smothering @

—

Algae Smothering @

A-J

Degraded Banks @

—

Fe/Sulfur Bact. @

A-J

Total Habitat	Sq. Meters	Percent
Snags	23	1.5
Roots	26	1.7
Leaf	1.7	0.1
Veg	137.5	9.2
Rock		
Gravel		
Sand	132.3	87.5
Other	1.7	
Sum 1° Habitat		12.5

Avg. Depth	Max. Depth	Avg. Width
0.6	X	15*

Bank Stability Score. Left Bank 30 Right Bank 30 Category Left Bk optimal Right Bk optimal
Add all plus signs (Max. 30 possible) and Divide by 3. Scoring. Poor: 0.0 - 3.7 pts. Marginal: 3.8-5.7 pts. Suboptimal: 5.8 - 8.6 Optimal: 8.7 +

Notes. Flashed Out of Banks Banks submerged.

xestimate

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

SAMPLING AGENCY: 21FLPNS		STORET STATION NUMBER: G3NW0151	DATE (MM/DD/YY): 10/18/22	RECEIVING BODY OF WATER:
REMARKS: WBID 751	COUNTY: Walton	Eagle Creek above Hwy 98		FIELD ID/NAME: G3NW0151

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>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>9</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 <u>12%</u> 10 <u>9</u> 8 7 6	Less than 5% major productive habitat 5 4 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>1</u> ----- Primary Score <u>28</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 <u>1</u>
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>11</u>	20 19 18 17 16	15 14 13 12 <u>11</u>	10 9 8 7 6	5 4 3 2 1
Bank Stability Right Bank <u>10</u> Left Bank <u>10</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> 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>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>71</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

99 TOTAL SCORE

Date: 10/18/2022	Analyst: F Butler	Signature: 
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SBIO ID: 05833

HA ID: 18042

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: Eagle Creek County: Walton Date: 10/18/22 Investigators: F. Butler

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	X		60	1	N	X		
	2	N	X	30%		2	N	X		
	3	N	X			3	N	X		
	4	N	X			4	N	X		
	5	N	X	65% E		5	N	X		100% E
	6	X	X			6	N	X		100%
	7	X	X			7	N	X		
	8	X	X			8	N	X		
	9	X	X			9	N	X		
10	1	N	X		70	1	N	X		
	2	N	X			2	N	X		
	3	N	X			3	N	X		
	4	N	X			4	N	X		
	5	N	X	60%		5	N	X		95% E
	6	N	X			6	N	X		
	7	N	X			7	N	X		
	8	N	X			8	N	X		
	9	N	X			9	N	X		
20	1	N	X		80	1	N	X		
	2	N	X			2	N	X		
	3	N	X			3	N	X		
	4	N	X			4	N	X		
	5	N	X	60% E		5	N	X		98% E
	6	N	X			6	N	X		
	7	N	X			7	N	X		
	8	N	X			8	N	X		
	9	N	X			9	N	X		
30	1	N	X		90	1	N	X		
	2	N	X			2	N	X		
	3	N	X			3	N	X		
	4	N	X			4	N	X		
	5	N	X	45% E		5	N	X		
	6	N	X			6	N	X		
	7	N	X			7	N	X		
	8	N	X			8	N	X		
	9	N	X			9	N	X		
40	1	N	X		100	1	N	X		
	2	N	X			2	N	X		
	3	N	X			3	N	X		
	4	N	X			4	N	X		
	5	N	X	75% E		5	N	X		100% E
	6	N	X			6	N	X		
	7	N	X			7	N	X		
	8	N	X			8	N	X		
	9	N	X			9	N	X		
50	1	N	X			1	N	X		
	2	N	X			2	N	X		
	3	N	X			3	N	X		
	4	N	X			4	N	X		
	5	N	X	75%		5	N	X		
	6	N	X			6	N	X		
	7	N	X			7	N	X		
	8	N	X			8	N	X		
	9	N	X			9	N	X		

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%.

STORET Station Number:

63NW0151

Secchi depth 0.6
Estimated? N

points ranked 4-6 0
total points assessed 9
% points ranked 4-6 0

Check accompanying data collected at same site/date.

Algal mat sample -
Linear Veg Survey ✓
Habitat Assessment ✓
SCI/Biorecon ✓
Water sample ✓

RG-2019-02-11-28
RG-2022-10-17-31

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.

RPS ID 9994

X Too mucky to get across channel

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

Waterbody: Eagle Creek above Hwy 20 Date: 4/18/22 County: Walton Storet Number: G3NW0151
 Analyst: F. Butler Signature: [Signature]

Comments:

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												Micranthemum glomeratum											
Bacopa caroliniana												Micranthemum umbrosum											
Bacopa monnieri												Myriophyllum aquaticum											
Bidens mitis												Najas guadelupensis											
Boehmeria cylindrica												Nuphar luteum											
Centella asiatica												Orontium aquaticum											
Ceratophyllum demersum												Panicum hemitomon											
Chara												Panicum repens											
Cicuta maculata												Panicum rigidulum											
Cladium jamaicense												Pistia stratioides											
Colocasia esculenta												Polygonum glabra											
Commelina diffusa												Polygonum hydropiperoides											
Commelina virginica												Polygonum punctatum											
Crinum americanum												Pontedaria cordata											
Diodia virginiana												Potamogeton illinoensis											
Eichhornia crassipes												Ruellia simplex											
Eleocharis (wispy viviparous)												Sacciolepis striata											
Hydrilla verticillata												Sagittaria kurziana											
Hydrocotyle												Sagittaria lancifolia											
Hygrophila polysperma												Sagittaria latifolia											
Hymenocallis												Salvinia minima											
Lachnanthes caroliniana												Samolus parviflora											
Landoltia punctata												Saururus cernuus											
Lemna												Sparganium americanum											
Limnophila sessiflora												Typha											
Ludwigia leptocarpa												Vallisneria americana											
Ludwigia palustris												Zizania aquatica											
Ludwigia peruviana												<i>Osmunda regalis</i>											
Ludwigia repens												<i>Osmunda cinnam.</i>											
Luziola fluitans												<i>Rhynchos. immit.</i>											
<i>Dicentra Scab</i>												<i>Cyperus Triadon</i>											
<i>Cyrtilla racem</i>												<i>Nyssa</i>											
<i>Dalichium</i>												<i>Cerex glaucus</i>											
<i>Eleocharis lanceol.</i>												<i>Nyctis</i>											
<i>Acer rubrum</i>												<i>Nymphaea</i>											
If no Dominant or Co-Dominant were selected, indicate with "X"												<i>Gelsemium ran</i>											
Indicate % cover macrophytes per section												<i>Nymphaea</i>											
0-5% Macrophyte Coverage												<i>Nymphaeaceae</i>											
>5 and ≤10% Macrophyte Coverage																							
>10 and ≤25% Macrophyte Coverage																							
>25 and ≤50% Macrophyte Coverage																							
> 50% Macrophyte Coverage																							

Field ID G3NW0151

RPS ID 9994

SBIO ID 85833

VPDB ID 12328

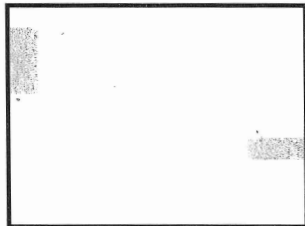
LIMS ID 2363640

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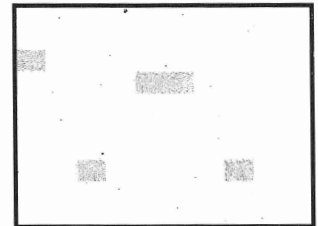
Revision Date: March 1, 2014

[illegible]

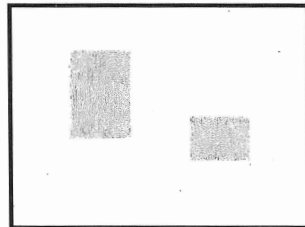
5% Macrophyte Coverage



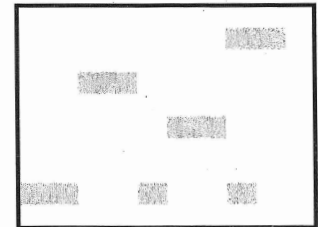
5% Macrophyte Coverage



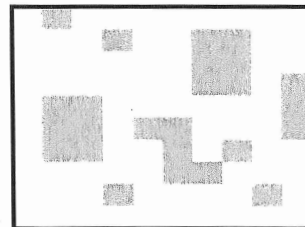
10% Macrophyte Coverage



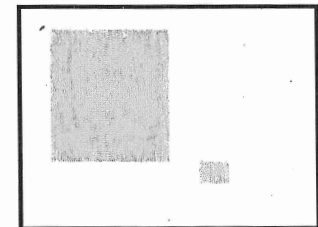
10% Macrophyte Coverage



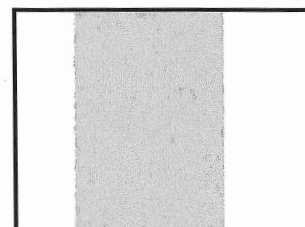
25% Macrophyte Coverage



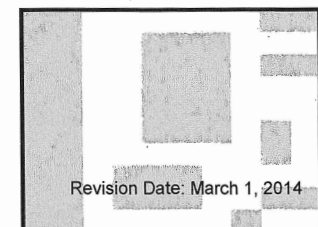
25% Macrophyte Coverage



50% Macrophyte Coverage



50% Macrophyte Coverage



Station: Eagle Creek
 GPS: 30.463821 x -86.37622
 Storet: G3NW0151 Field ID G3NW0151
 SBIO Sample ID: 85833
 Macro ID: 12328

Sampled : 10/18/2022
 Sampled By: F. Butera, N. Mulkey
 Location: Upstream of SR20
 Receiving Waters: Choctawhatchee Bay
 LIMS ID: 2363640

	Taxa	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	C of C	Coll.	Verified
1	<i>Carex glaucescens</i>	1	1		1	1						4.70		
2	<i>Dichanthelium scabriusculum</i>	1	1									7.15		
3	<i>Dulichium arundinaceum</i>	1										7.31		
4	<i>Eleocharis elongata</i>	D	D	D	D	1	1	1	1	1	1	6.97		
5	<i>Leptochloa fusca fascicularis</i>		1										Y	FB
6	<i>Luziola fluitans</i> (Michx.)	1									1			
7	<i>Pontederia cordata</i>							1	1		1	5.38		
8	<i>Rhynchospora inundata</i>	1	1			1						7.25		
9	<i>Sacciolepis striata</i>	1										5.35		
10	<i>Xyris</i> sp.	1	1	1	1	1	1	1	1	1	1			
11	<i>Bidens mitis</i>	1	1	1	1	1	1	1	1	1	1	6.31		
12	<i>Centella asiatica</i>		1									1.92		
13	Gelsemiacea +	1	1				1		1					
14	<i>Nuphar luteum</i>					1		D	D	D	D	4.64		
15	<i>Nymphaea odorata</i>	1	1					1	1	1		6.99		
16	<i>Nymphoides</i> sp. (Native)							1	1					
17	<i>Persicaria punctatum</i>		1	1		1					1			
18	<i>Saururus cernuus</i>	1	1	1	1	1	1	1	1					
19	<i>Triadenum virginicum</i>	1			1				1		1	8.16		
20	<i>Acer rubrum</i>		1	1							1	4.65		
21	<i>Cephalanthus occidentalis</i>				1							7.27		
22	<i>Cyrilla racemiflora</i>	1	1	1	1	1		1			1	5.20		
23	<i>Itea virginica</i>			1		1	1		1		1	7.09		
24	<i>Lyonia lucida</i>									1		7.06		
25	<i>Myrica cerifera</i>			1					1	1	1	3.82		
26	<i>Nyssa sylvatica</i> var. <i>biflora</i>	1	1							1		9.04		
27	<i>Pinus</i> sp.		1											
28	<i>Rhododendron viscosum</i> var. <i>serrulatum</i>		1			1	1				1			
29	<i>Osmunda cinnamomoea</i>	1	1	1			1	1	1			6.44		
30	<i>Osmunda regalis</i>	1		1		1	1	1	1	1	1	8.04		
31	<i>Sphagnaceae</i>	1	1	1	1	1	1	1	1	1	1			
	Total	18	19	12	9	14	11	12	15	10	15			
	Taxa per section	18	19	12	9	14	11	11	15	10	16	Herb. Taxa		19
	Exotic Present	0	0	0	0	0	0	0	0	0	0	Woody Taxa		9
	Avg. taxa per section	14										Ferns		3
	sections with exotics	0										Macro Algae		0
	Exotic Taxa	0	Exotics per Section: 0.0									Total Taxa		31

* All taxa were observed fully within the stream channel.

+ Gelsemiacea likely Gelsemium rankini. F. Butera