



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2020

Meter Passed End
of Day CCV
☒ Yes / ☐ No

WIN Station Name: Carpenter Creek Upstream Of 9th Avenue **Date:** 12/21/2020

WIN/Field ID: G4NW0415 **WBID:** 676 **ENR:** **Latitude:** 30.47142

County: ESCAMBIA **Org ID:** 21FLPNS **Longitude:** -87.214

Receiving Body of Water: Pensacola **RQ:** 2020-12-21-37

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
☒	Frank Butera		x		x	x
☒	Myranda Butler	x		x		
☐						
☐						

Sampling Equipment	
☒ Sample Container	☐ Carboy
☐ Dipper	☐ Van Dorn
☒ Syringe	☐ Pole
Depth measured with: Meter	
Secchi Equipment ID:	
Collection Method	
☒ Wading	☐ Canoe/Kayak
☐ From Shore	☐ Electric Motor
☐ Other _____	☐ Gasoline Motor

Water Level: ☒ Normal ☐ Low ☐ High ☐ Dry ☐ Pooled ☐ Flooded						Meter ID# 155077 (PRODSS)			
Photos: No	Flow: FLOW			Tide:	Tide Times: High: _____ Low: _____				
Biological Samples Collected: ☐ None ☒ HA ☒ SCI ☒ RPS ☐ Algae ID ☒ LVS ☐ LVI Other: _____									
SBIO ID Numbers: Visit ID 81736. RPS ID 9629. HA ID 16713									
Notes:									

Duplicate Sample

Time Zone: <u>CEN</u>	Time: <u>N/A</u>	Field ID: <u>N/A</u>	(WIN ID_DUP)
WIN DMT Activity ID: _____			

Blank

Time Zone: _____	Time: <u>N/A</u>	Field ID: <u>N/A</u>	(Blank Type_DDMMYYYY)
DI Source: <u>N/A</u>	Location: <u>N/A</u>		
DI Type: <u>N/A</u>	Equipment ID: <u>N/A</u>		

LIMS EVENT ID: _____ **WIN Import ID:** _____

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

(Initials/Date) (Initials/Date)

Scan/Save Field Sheets FB/12/22/2020 **Migrate Data to WIN:** _____ **Verify Data In WIN:** _____

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



RQ-2020-12-21-37

Customer: WQAP

Project ID: SMP

Collected By: Frank Butera, Myranda Butler

Field Report Prepared By: Frank Butera

Sampling Agency: FDEP

Place Label Here

WIN ID/Field ID:



G4NW0415

Location: Carpenter Creek Upstream Of 9th Avenue

Comments:

Matrix: Fresh

(Check one)

☒ GRAB☐ COMPOSITE

Date	Time	DO (mg/L)	DO (%SAT)	Temp. (C°)	pH	Sample Depth (m)	Secchi Disk (m)	Total Depth (m)	Sp COND (µmhos/cm)	Salinity (PPT)
12/21/2020	1133 CEN	8.61	90.4	18.1	5.89	0.2	0.4 ☒ VOB (S)	0.4	87.1	0.04

Central Lab please use top row for login purposes

	CEN									

Parameter Suite	Parameter Methods	Preservation	pH Check	# Bottles sent to Lab	Bottle Group
Preserved Nutrients (P-500ML)	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☒ Ice ☒ H2SO4*	☒ <2	1	A
	Lot # SA0293040 Exp: 10/19/21				
Metals (P-500ML)	☒ W-ICPMS ☒ W-ICP ☐ W-HARD	☒ Ice ☒ HNO3*	☒ <2	1	A
	Lot # NA0038050 Exp: 2/7/21				
Filtered Nutrients (P125ML)	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice		1	A
	Filter Lot # 17097890				
	Syringe Lot # 0118593				
Chlorophyll (BP-1L)	☒ CHLSUITE-W	☒ Ice		1	A
Physical/Aggregate (Fresh) (P-1L)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CL-IC / W-COLOR / W-SO4-IC / W-TDS	☒ Ice		1	A
Physical/Aggregate (Marine) (P-1L)	☐ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates (PJ-2L)	☐ MI-FW-QLDC	☒ Formalin		2	B
Periphyton (PT-50ML)	☐ ALGAE-ID	☐ Ice			
Microbiology (Contract Lab Bottle)	☒ E Coli ☐ F Coli ☐ Enterococci ☐ Contract Lab	☒ Ice		1	A
Molecular (QPCR-P-500ML)	☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-DG3 ☐ PCR-GULL2 ☐ PCR-GFD ☐	☐ Ice			
Tracers (BG-500ML)	☐ W-E8321-DI ☐ W-E8321-MS	☐ Ice			
Pesticides (BG-500ML) (BG-1L)	☒ W-E8321-DI ☒ WE8321-MS ☒ W-PSNP-TQ ☐ W-CT-CL-R	☒ Ice		5	A
	☐ W-PCL-SQ-R ☐ W-CARB-AA (5 ml of MCAA** Buffer Solution)				
		☐ Ice			

Name:
Frank Butera
Myranda Butler

Signature:

Myranda Butler

Date:

12/21/2020

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution

Site Name Carpenter's Creek upstream of 9th Ave

Date: 12/21/2020

Field ID G4NW0415 Storet G4NW0415

Project: TMDL Studies

Visit ID 81736

RQ: 2020-12-21-37

RPS ID 9629

LIMS ID: 2215462

Macro ID N/A

WBID: 676

HA ID 16713

☒ SCI

☐ RPS/LVS Only

☐ Sample Site Created in SBIO

☒ Phys/Chem entered in SBIO

☒ HA entered in SBIO Initial FB

☒ Date and Initial QA: 1/04/2021, SS

☒ RPS entered in SBIO Initial FB

☒ Date and Initial QA: 1/04/2021, SS

☐ LVS entered in SBIO Initial _____

☐ Date and Initial QA: _____

☐ < 2 m² vegetation

☐ Plants getting verified

Date submitted: _____

☐ Plants verified

Date returned: _____

☒ RPS authorized in SBIO 1/13/2021, FB

☒ Date and Initial: 1/04/2021, SS

☒ RPS score: 3.03

☐ Macro authorized in SBIO

☐ Date and Initial: _____

☐ LVS Score: _____

☒ SCI complete: 03/03/2021 T. Risk

SCI Score: 44

☒ 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 81736 ORG ID 21FLPNS LATITUDE 30.4742
 COUNTY Escambia STORET # 64NW0415 LONGITUDE -87.21400
 DATE 12/21/2020 TIME 11:33 CTZ SAMPLING AGENCY FL DEP-NWROC
 SITE NAME Carpenter's Creek
 FIELD ID/NAME 64NW0415 RECEIVING BODY OF WATER Bayou Texar

RIPARIAN ZONE / STREAM FEATURES

WBID 676

CLMS ID: 2215462

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category): Forest/Natural ☐ Silviculture ☐ Field/Pasture ☐ Agricultural ☐ Residential ☐ Commercial ☐ Industry ☐ Other (Specify) <u>Urban</u>							Landscape Development Intensity Index (LDI) N/A
Local Watershed Erosion (select one): ☐ None ☐ Slight ☐ Moderate ☒ Heavy				Typical Width (m) <u>0.25</u> Depth (m) <u>0.3</u> Velocity (m/sec) <u>0.33</u> Transect <u>5</u> m wide			
Local Watershed NPS Pollution: ☐ No evidence ☐ Slight ☐ Moderate ☒ Heavy							
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank: <u>7.8</u> Right Bank: <u>12</u>		Hydrologic Modification Score (per FT 3101) <u>9-10</u>					
High Water Mark: <u>2.7</u> + <u>1.0</u> = <u>3.7</u> (m) (above present water level) (present depth) (above bed)		Artificially Impounded ☐ Yes ☒ No		4 segs <u>0.4</u> m deep <u>0.4</u> m deep <u>0.3</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 <table border="1"> <thead> <tr> <th></th> <th>% Coverage</th> <th># Times Sampled</th> <th>INVERT</th> <th>PERI</th> </tr> </thead> <tbody> <tr> <td>Woody Debris (Snags)</td> <td><u>4.8</u></td> <td><u>5</u></td> <td></td> <td></td> </tr> <tr> <td>Undercut Banks / Roots</td> <td><u>3.8</u></td> <td><u>5</u></td> <td></td> <td></td> </tr> <tr> <td>Leaf Packs or Mat</td> <td><u>0.9</u></td> <td><u>5</u></td> <td></td> <td></td> </tr> <tr> <td>Aquatic Vegetation</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Rock or Shell Rubble</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Sand</td> <td><u>90.5</u></td> <td><u>5</u></td> <td></td> <td></td> </tr> <tr> <td>Mud / Muck / Silt</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Other</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Other</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				% Coverage	# Times Sampled	INVERT	PERI	Woody Debris (Snags)	<u>4.8</u>	<u>5</u>			Undercut Banks / Roots	<u>3.8</u>	<u>5</u>			Leaf Packs or Mat	<u>0.9</u>	<u>5</u>			Aquatic Vegetation					Rock or Shell Rubble					Sand	<u>90.5</u>	<u>5</u>			Mud / Muck / Silt					Other					Other					WATER QUALITY <table border="1"> <thead> <tr> <th></th> <th>Depth (M)</th> <th>Temp. (°C)</th> <th>pH (SU)</th> <th>D.O. (MG/L)</th> <th>D.O. Sat (%)</th> <th>Cond. (UMHO/CM)</th> <th>Salinity (PPT)</th> <th>SECCHI (M)</th> </tr> </thead> <tbody> <tr> <td>Top</td> <td><u>0.2</u></td> <td><u>18.1</u></td> <td><u>5.89</u></td> <td><u>8.4</u></td> <td><u>90.4</u></td> <td><u>87.1</u></td> <td><u>0.04</u></td> <td><u>0.4</u></td> </tr> <tr> <td>Mid</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>☒ VOB</td> </tr> <tr> <td>Bottom</td> <td><u>0.4</u></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> Meter ID: <u>155077</u>				Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat (%)	Cond. (UMHO/CM)	Salinity (PPT)	SECCHI (M)	Top	<u>0.2</u>	<u>18.1</u>	<u>5.89</u>	<u>8.4</u>	<u>90.4</u>	<u>87.1</u>	<u>0.04</u>	<u>0.4</u>	Mid								☒ VOB	Bottom	<u>0.4</u>							
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Water Sample Taken? ☒ Yes ☐ No Sample Preserved? ☒ Yes ☐ No Lot Number: _____ Exp: _____			Color Tannic ☐ Green (Algae) ☐ Clear ☒ Other (Specify) ☐																																																																																								
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AMBIENT FIELD CONDITIONS / NOTES: <u>Sunny, 50's. Some Rain</u> <u>Previous week. Lots of Litter to garbage</u> ☒ The antecedent hydrologic conditions have been met to my best knowledge.																																																																																											

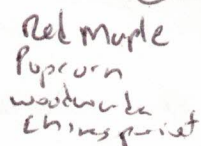
SAMPLING TEAM: Frank Butera, Myranda A Butler SIGNATURE: Frank Butera DATE: 12/21/2020

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

Project: SMP
Sampled By: F. Butz, M. Guter
Date: 12/26/2020

Riparian Buffer Width:
Note areas (on map) where
natural vegetation is altered
or eliminated.

100 m Long



Downstream
Fontinalis
Sycamore

0-10 meter [A]	Habitat Area (M)	Left Bank	Right Bank
	Snag 0.1	Bankfull	Bankfull
0m width (m) 5	Root 0.5	—	—
10m width 6	Leaf 0.2	Slope	Slope
Avg. Depth 0.4	Veg	—	—
Max Depth 0.4	Gravel	Veg	Veg
Rip. Buff L 718	Rock	+	+
Rip. Buff R 718	Other	Si, Si, E	

10-20 meter [B]	Habitat Area (M)	Left Bank	Right Bank
	Snag 1.0	Bankfull	Bankfull
20m width 6	Root 5.0	—	—
	Leaf 1.0	Slope	Slope
Avg. Depth 0.4	Veg	—	—
Max Depth 0.6	Gravel	Veg	Veg
Rip. Buff L 718	Rock	+	+
Rip. Buff R 718	Other	Fe, Si, Si	

20-30 meter [C]	Habitat Area (M)	Left Bank	Right Bank
	Snag 3.2	Bankfull	Bankfull
30m width 6.0	Root 5.0	—	—
	Leaf 1.0	Slope	Slope
Avg. Depth 0.4	Veg	—	—
Max Depth 0.4	Gravel	Veg	Veg
Rip. Buff L 718	Rock	—	+
Rip. Buff R 718	Other	Si, Si, Fe	

30-40 meter [D]	Habitat Area (M)	Left Bank	Right Bank
	Snag 0.3	Bankfull	Bankfull
40m width 6.0	Root 3.0	—	—
	Leaf 0.3	Slope	Slope
Avg. Depth 0.3	Veg	+	—
Max Depth 0.4	Gravel	Veg	Veg
Rip. Buff L 718	Rock	—	—
Rip. Buff R 10	Other	E, Fe, Si, Si	

40 - 50 meter [E]	Habitat Area (M)	Left Bank	Right Bank
	Snag 1.5	Bankfull	Bankfull
50m width 6.0	Root 0.2	—	—
	Leaf 0.1	Slope	Slope
Avg. Depth 0.3	Veg	—	—
Max Depth 0.4	Gravel	Veg	Veg
Rip. Buff L 718	Rock	—	+
Rip. Buff R 10	Other	Si, Si, Fe, E	

50-60 meter [F]	Habitat Area (M)	Left Bank	Right Bank
	Snag 1.0	Bankfull	Bankfull
60m width 6.0	Root 0.8	+	—
	Leaf 0.1	Slope	Slope
Avg. Depth 0.3	Veg	*	—
Max Depth 0.4	Gravel	Veg	Veg
Rip. Buff L 718	Rock	—	+
Rip. Buff R 10	Other	Si, Si, E, Fe	

60-70 meter [G]	Habitat Area (M)	Left Bank	Right Bank
	Snag 1.0	Bankfull	Bankfull
70m width 5.0	Root 1.0	—	—
	Leaf 1.0	Slope	Slope
Avg. Depth 0.5	Veg	+	—
Max Depth 0.4	Gravel	Veg	Veg
Rip. Buff L 718	Rock	—	—
Rip. Buff R 10	Other	Si, Si, E, Fe	

70-80 meter [H]	Habitat Area (M)	Left Bank	Right Bank
	Snag 3.0	Bankfull	Bankfull
80m width 6.0	Root 4.0	—	—
	Leaf 0.5	Slope	Slope
Avg. Depth 0.4	Veg	+	—
Max Depth 0.5	Gravel	Veg	Veg
Rip. Buff L 718	Rock	+	+
Rip. Buff R 90	Other	Si, Si, Recoon E	

80-90 meter [I]	Habitat Area (M)	Left Bank	Right Bank
	Snag 6.0	Bankfull	Bankfull
90m width 6.0	Root 2.0	—	—
	Leaf 1.0	Slope	Slope
Avg. Depth 0.4	Veg	—	—
Max Depth 0.7	Gravel	Veg	Veg
Rip. Buff L 718	Rock	—	+
Rip. Buff R 10	Other	Si, Si, E	

90 - 100 meter [J]	Habitat Area (M)	Left Bank	Right Bank
	Snag 0.1	Bankfull	Bankfull
100m width 6.0	Root 1.0	—	—
	Leaf 0.2	Slope	Slope
Avg. Depth 0.75	Veg	+	—
Max Depth 0.4	Gravel	Veg	Veg
Rip. Buff L 718	Rock	+	—
Rip. Buff R 5	Other	Si, Si, Fe	

Bank Stability Score. Left Bank 2 Right Bank 3 Category Left Bk Poor Right Bk Poor
 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. 70m Dead Recoon in current.

Storet: GYNW0415
 Date 12/21/2020

0 meter (Dec Deg)

100 meter (Dec Deg)

Water Quality Measured at

0m

Stream Velocity and location.

0.33 m/s 4 meter mark

Number of Pools & Location

High Water: 2.8m @ 30m

Silt smothering @

A-F, H-J

Sand Smothering @

A-J

Algae Smothering @

G

Degraded Banks @

A, B-I

Fe/Sulfur Bact. @

B-E, F, J

Total Habitat	Sq. Meters	Percent
Snags	27.9	4.8
Roots	21.8	3.8
Leaf	5.4	0.9
Veg		
Rock		
Gravel		
Sand	529.9	90.5
Other		
Sum 1° Habitat		9.5

Avg. Depth	Max. Depth	Avg. Width
0.4	1.0	5.8

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

SAMPLING AGENCY: <u>FL DEP-NWROC</u>		STORET STATION NUMBER: <u>G4NW0415</u>	DATE (MM/DD/YY): <u>12/21/20</u>	RECEIVING BODY OF WATER:
REMARKS:	COUNTY: <u>Escambia</u>	LOCATION: <u>Carpenter's Pt. upstream 9th Avenue</u>	FIELD ID/NAME: <u>G4NW0415</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 productive habitat. Lack of habitat is obvious, substrates unstable or smothered
Substrate Diversity <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
Substrate Availability <u>7</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>9.5%</u> 10 9 8 <u>7</u> 6	Less than 5% major productive habitat 5 4 3 2 1
Water Velocity <u>24</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>14</u> ----- Primary Score <u>48</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	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>9</u>	20 19 18 17 16	15 14 13 12 11	10 <u>9</u> 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>3</u> Left Bank <u>3</u>	10 9	8 7 6	5 4	<u>3</u> 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>5</u> Left Bank <u>14</u>	<u>10</u> 9	8 7 6	<u>5</u> 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. <u>lots of Frustrum</u>	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> ----- Secondary Score <u>42</u>	10 9	8 7 <u>6</u>	5 4	3 2 1

90

TOTAL SCORE

Date: <u>12/20/2020</u>	Analyst: <u>F. Buttern</u>	Signature: <u>[Signature]</u>
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SB10 ID 81736

HA ID 16713

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: Carpenter's Ch Upstream 4 Ave Escambia County: Escambia Date: 11/21/2020 Investigators: F. Butler, M. Butler

Transect (m) Point 1=right 9=left Algal Thickness Rank (N-6, X) Estimated Canopy Cover STORET Station Number: G4NW0415

Transect (m)	Point	1=right	9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover
0	1	N	4	N		
	2	N				
	3	N				
	4	N				
	5	N				96
	6	N				
	7	N				
	8	N				
	9	N				
10	1	N		N		
	2	N				
	3	N				
	4	N				
	5	N				75
	6	N				
	7	N				
	8	N				
	9	N				
20	1	N		N		
	2	N				
	3	N				
	4	N				
	5	N				44
	6	N				
	7	N				
	8	N				
	9	N				
30	1	N		N		
	2	N				
	3	N				
	4	N				
	5	N				96
	6	N				
	7	N				
	8	N				
	9	N				
40	1	N		N		
	2	N				
	3	N				
	4	N				
	5	N				96
	6	N				
	7	N				
	8	N				
	9	N				
50	1	N		N		
	2	N				
	3	N				
	4	N				
	5	N				24
	6	N				
	7	N				
	8	N				
	9	N				

Secchi depth 100
Estimated?

points ranked 4-6 3
total points assessed 99
% points ranked 4-6 3.03

Check accompanying data collected at same site/date.
Algal mat sample
Linear Veg Survey
Habitat Assessment
SCI/Biorecon
Water sample
RQ-2020-12-21-37

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

SR10 ID 81736
RPS ID 9629

RPS Score 3.03

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%.

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

Waterbody: <u>Carpenter's Cr. upstream 9th Ave</u>	Date: <u>4/21/20</u>	County: <u>Essex</u>	Storet Number: <u>SYNW0415</u>
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Analyst: F. B. Brown Signature: F. B. Brown

Comments: No vegetation present. LUS not appropriate

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 monneri												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																							
Ludwigia repens																							
Luziola fluitans																							

Carpenter Creek Upstream of 9th Ave

Storet: G4NW0415

SBIO ID: 81736

WBID: 676

LIMS ID: 2215462

Benth ID 45321

RQ-2020-12-21-36

Sample Date: 12/21/2020

Variable Name	Rep 1	Rep 2
AmphipodPct	0	0
ChironPct	62.5	58.78
ChironTaxa	7	11
ClingerTaxa	5	5
ColeopteraPct	4.86	2.03
DecapodaPct	0.69	0
DipteraPct	64.58	62.16
DominantPct	40.97	31.76
Dominant Taxa	Rheotanytarsus exiguus grp.	Rheotanytarsus exiguus grp.
EPTTaxa	3	6
EphemPct	0.69	1.35
EphemTaxa	1	1
FFBrowGrazPct	0	0
FFEpiColDepPct	11.11	15.54
FFParasitePct	0	0
FFPIPiercePct	0	1.35
FFPredCarnPct	6.6	12.16
FFScavPct	0.35	0
FFScrapePct	3.13	3.72
FFShredPct	6.25	6.76
FFSubColDepPct	6.25	6.08
FFSuspFiltPct	66.32	53.72
FFUnknownPct	0	0.68
GastropodaPct	0.69	2.03
IsopodaPct	0	0
LongLivedTaxa	1	0
OdonataPct	3.47	6.76
OligocPct	6.25	6.08
OligocTaxa	2	3
PelecypodaPct	0.69	0
PlecopPct	0	0
PolychaetePct	0	0
PolychaeteTaxa	0	0
SCI_2012_Rep	41.35534644	46.94057575
SensitiveTaxa	5	3
TanytarsiniPct	52.08	46.62
TotalDBar	0	0
TotalDensity	0	0
TotalNind	144	148
TotalTaxa	27	33
TrichopPct	15.28	14.86
TrichopTaxa	2	5
TrombidPct	0	0
VeryTolerantPct	7.64	6.76

Average SCI 2012	44.1479611
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Bioassessment	County	WBID	Kit	Qty	Bottle Group	WIN ID	Latt	Long
Carpenter Creek upstream of 9th Avenue	Escambia	676	Fresh	1	A	G4NW0415	30.47142	-87.214
			Metals	1				
			Tracers: W-E8321-DI, MS	1				
			PSNP-TQ	4				
			Escheria coli	1				
			SCI, HA, RPS,LVS	1	B			

Back Up Site	County	WBID	Kit	Qty	Bottle Group	WIN ID	Latt	Long
Big Juniper Creek South of Indian Ford along a pa	Santa Rosa	19	Fresh	1	A	G4NW0418	30.72616	86.89865
			Metals	1				
			Tracers: W-E8321-DI, MS	1				
			PSNP-TQ	4				
			Escheria coli	1				
			SCI, HA, RPS,LVS	1	B			

RQ-2020-12-21-37

WWE Bottle Lot No. Expiration:

SA 0293040
10/19/2021

NA 0038050
02/07/2021

Syringe 0158593
Filter 17097890

Bottle Group	Category	Test	Bottles
A	Kit A	Nutrients	1
		Chlorophyll	1
		Alkalinity...	1
		Ortho-Phos	1
	Metals	W-ICP,ICPMS	1
	Pesticides	W-PSNP-TQ	4
	Bacteria	W-E8321 DI,MS	1
B	SCI	E. coli	1
		QLDC	3
		Algal ID	2
Total			16