



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PLAN FIELD SHEET

January 2020

Meter Passed End

of Day CCV

Yes / No

WIN Station Name: Seven Runs upstream of Hwy 81

Date: 8/23/2021

WIN/Field ID: G3NW0116

WBID: 570

ENR:

Latitude: 30.53923

County: WALTON

Org ID: 21FLPNS

Longitude: -85.920625

Receiving Body of Water: -

RQ- 2021-07-19-41

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
☒	Frank Butera	x		x		
☒	Myranda Butler		x		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# 154179 (PRODSS)							
Photos: YES		Flow: FLOW		Tide:		Tide Times: High: Low:							
Biological Samples Collected: ☐ None ☒ HA ☒ SCI ☒ RPS ☐ Algae ID ☒ LVS ☐ LVI Other:													
SBIO ID Numbers: SBIO Visit ID 82930. HA ID 16973. RPS 9763. Benth ID 45396													
Notes: Sample Delivery to TLH laboratory delayed by shipper. Samples arrived at lab 08/25/2024, 48+ hours after sampling event. <2 square meters vegetation, LVS not appropriate.													

Duplicate Sample

Time Zone: CEN	Time:	Field ID:	(WIN ID_DUP)
WIN DMT Activity ID:			

Blank

Time Zone:	Time:	Field ID:	(Blank Type_DDDMMYYY)
DI Source:	Location:		
DI Type:	Equipment ID:		
DI Container (Name/ID):		DI Container Type:	

LIMS EVENT ID: 2271622 WIN Import ID:

Enter Field Parameters, Verify Station ID In LIMS DMT: (Initials/Date) QC Station ID, Field Parameters In LIMS DMT: (Initials/Date)

Scan/Save Field Sheets FB / 08-25-2021 (Initials/Date) Migrate Data to WIN: (Initials/Date) Verify Data In WIN: (Initials/Date)



RQ-2021-07-19-41

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:



G3NW0116

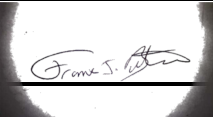
Location: Seven Runs upstream of Hwy 81

Comments: Microbiology sample(s) submitted to contract laboratory

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)		
	1015 CEN	7.12	85.2	24.4	4.59	0.3	1 ☒ VOB (S)	1	21.2	0.01		
8/23/2021												
	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 #	SA0353110		Exp:	01/11/2022						
Metals (P-500ML)		☒ W-ICPMS ☒ W-ICP ☒ W-HARD				☒ Ice ☒ HNO3*		☒ <2	1	A		
		Lot #	NA0344060		Exp:	01/04/2022						
Filtered Nutrients (P125ML)		☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter				☒ Ice			1	A		
		Filter Lot #	17236199									
		Syringe Lot #	1005533									
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 Lot #	10.20141905		☒ Formalin			2	B		
Periphyton (PT-50ML)		☐ ALGAE-ID				☐ Ice						
Microbiology (Contract Lab Bottle)		☒ E Coli ☐ F Coli ☐ Enterococci				☒ 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		
Phytoplankton/Periphyton		W-PCL-TQ-R W-CARB-AA (5 ml of MCAA** Buffer Solution)				☐ Ice						
		DTY-QN-C PKD-QN-BV										
Name: Frank Butera Myranda Butler					Signature: 			Date: 08/25/2021				

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution

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

SAMPLE ID 8293D ORG ID 21FLPNS LATITUDE 30.53923
 COUNTY Walton WIN ID/STORET # G3NW0116 LONGITUDE -85.920625
 DATE 8/23/21 TIME 10:15 CTZ SAMPLING AGENCY FL DEP - NWROC
 SITE NAME Seven Runs upstream of Hwy 81 RQ. 2021-07-19-41
 FIELD ID/NAME G3NW0116 RECEIVING BODY OF WATER. Choctawhatchee River WBID 570 Project: SMP/ TMDL Studies

RIPARIAN ZONE / STREAM FEATURES

LIMS ID: 2271622

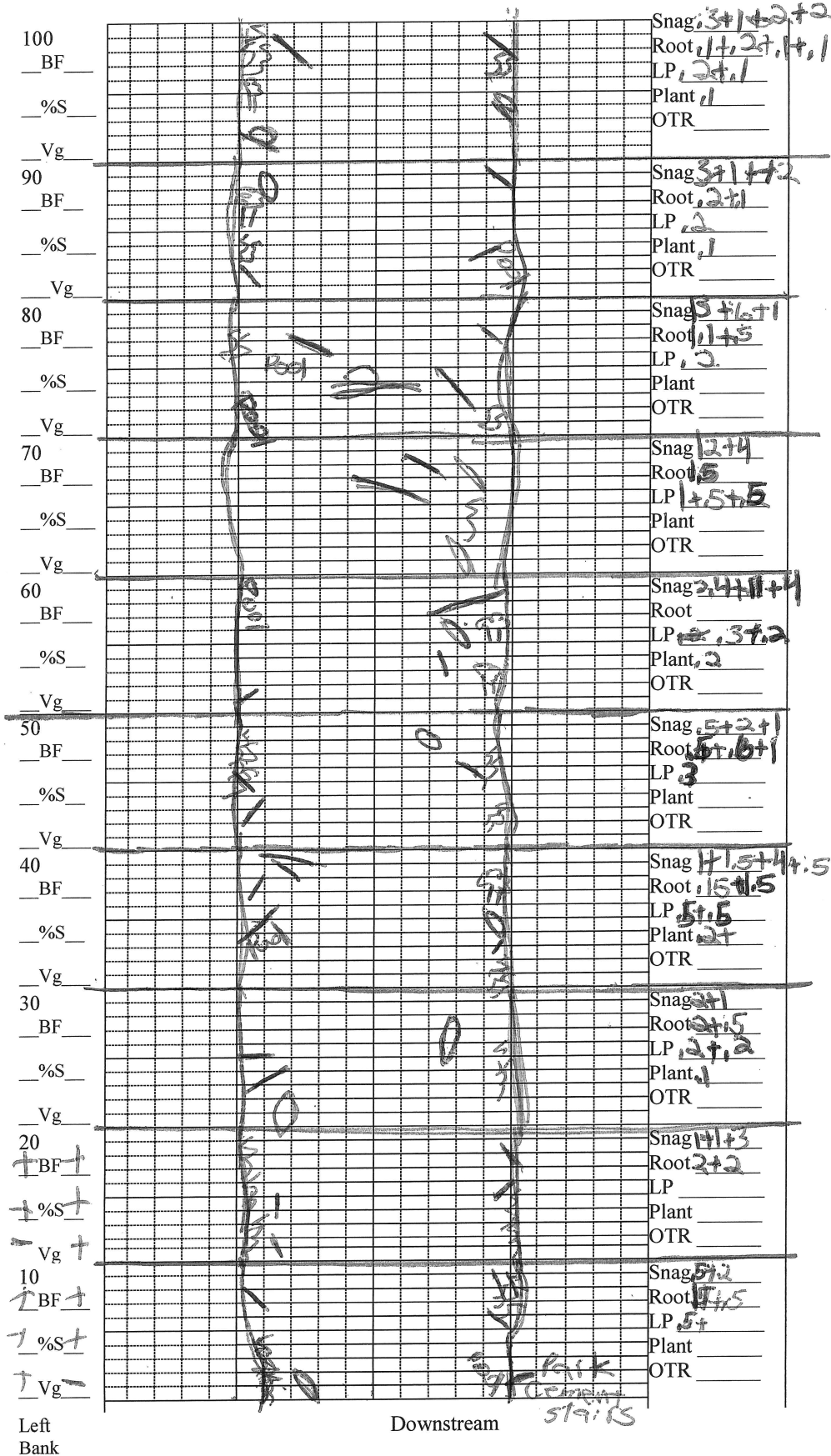
PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category) : Forest/Natural ☐ Silviculture ☐ Field/Pasture ☐ Agricultural ☐ Residential ☐ Commercial ☐ Industry ☐ Other (Specify) ☐							Landscape Development Intensity Index (LDI) <u>N/A</u>
Local Watershed Erosion (select one) : ☐ None ☐ Slight ☒ Moderate ☐ Heavy Local Watershed NPS Pollution : ☐ No evidence ☐ Slight ☒ Moderate ☐ Heavy							Typical Width (m) Depth (m)/Velocity (m/sec) Transect <u>9</u> m wide
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>3-4</u>			0.33 m/s 0.33 m/s 0.33 m/s
High Water Mark: <u>1.6</u> + <u>1.0</u> = <u>2.6</u> (m) (above present water level) (present depth) (above bed)				Artificially Impounded ☐ Yes ☒ No			0.6 m deep 1.0 m deep 1.0 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 <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>0.3</u></td> <td><u>24.4</u></td> <td><u>4.59</u></td> <td><u>7.12</u></td> <td><u>85.2</u></td> <td><u>21.2</u></td> <td><u>0.01</u></td> <td><u>1.0</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></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>							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>24.4</u>	<u>4.59</u>	<u>7.12</u>	<u>85.2</u>	<u>21.2</u>	<u>0.01</u>	<u>1.0</u>	Mid:								☒ VOB	Bottom								
	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>24.4</u>	<u>4.59</u>	<u>7.12</u>	<u>85.2</u>	<u>21.2</u>	<u>0.01</u>	<u>1.0</u>																																				
Mid:								☒ VOB																																				
Bottom																																												
Woody Debris (Snags) <u>9.5</u> <u>5</u> Undercut Banks / Roots <u>6.81</u> <u>5</u> Leaf Packs or Mat <u>0.60</u> <u>5</u> Aquatic Vegetation <u>0.09</u> <u>2</u> Rock or Shell Rubble.. <u></u> <u></u> Sand..... <u>83</u> <u>3</u> Mud / Muck / Silt <u></u> <u></u> Other <u></u> <u></u> Other <u></u> <u></u>			Meter ID: <u>154179</u>			Water Odors Normal ☒ Petroleum ☐ Sewage ☐ Chemical ☐ Other ☐																																						
			Water Sample Taken? ☒ Yes ☐ No Sample Preserved? ☒ Yes ☐ No Lot Number: _____ Exp: _____			Water Surface Oils Normal ☒ Sheen ☐ Globbs ☐ Slick ☐ Other ☐																																						
			Algae Sample Taken? ☐ Yes ☒ No Sample Preserved? ☐ Yes ☒ No Lot Number: _____ Exp: _____			Color Tannic ☒ Green (Algae) ☐ Clear ☐ Other (Specify) ☐																																						
			System Type: Stream ☒ Lake ☐ Wetland ☐ Estuary ☐ Other(Specify) ☐			Clarity Clear ☒ Slightly Turbid ☐ Turbid ☐ Opaque ☐																																						
ABUNDANCE <table border="1"> <thead> <tr> <th></th> <th>Not Obs.</th> <th>Rare</th> <th>Common</th> <th>Abundant</th> </tr> </thead> <tbody> <tr> <td>Periphyton:</td> <td>☐</td> <td>☐</td> <td>☒</td> <td>☐</td> </tr> <tr> <td>Fish:</td> <td>☐</td> <td>☐</td> <td>☒</td> <td>☐</td> </tr> <tr> <td>Aquatic Plants:</td> <td>☐</td> <td>☒</td> <td>☐</td> <td>☐</td> </tr> <tr> <td>Iron/Sulfur Bacteria:</td> <td>☒</td> <td>☐</td> <td>☐</td> <td>☐</td> </tr> </tbody> </table>				Not Obs.	Rare	Common	Abundant	Periphyton:	☐	☐	☒	☐	Fish:	☐	☐	☒	☐	Aquatic Plants:	☐	☒	☐	☐	Iron/Sulfur Bacteria:	☒	☐	☐	☐	AMBIENT FIELD CONDITIONS / NOTES: Samples arrived to TCH Lab 8/25/2021 48+ hours post sample. ☒ The antecedent hydrologic conditions have been met to my best knowledge.																
	Not Obs.	Rare	Common	Abundant																																								
Periphyton:	☐	☐	☒	☐																																								
Fish:	☐	☐	☒	☐																																								
Aquatic Plants:	☐	☒	☐	☐																																								
Iron/Sulfur Bacteria:	☒	☐	☐	☐																																								
SAMPLING TEAM: <u>N. Butler</u> <u>F. Butera</u>			SIGNATURE: <u>N. Butler</u>			DATE: <u>8/23/21</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).



WIN ID G3NW0116

Substrates: Code key,
draw proportionate habitat
abundance.



Snags



Roots/undercut banks



Leaf Packs (or mats)



Macrophytes



Velocity: 0.33 m/s

Note where velocity
measures were taken. 100m

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 9 m

Average depth 1.0 m

WQ & chemistry taken @ 0 m

Seven Runs upstream of Hwy 81

Project. SMP / TMDL Studies

Sampled By/Date: C 123/21

0 m Latt. 30.53923

0 m Long. -85.920625

100 m Latt 30.53977

100 m Long -85.92142

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

SAMPLING AGENCY: FL DEP NWROC 21FLPNS		STORET STATION NUMBER: G3NW0116	DATE (MM/DD/YY): 8/23/21	RECEIVING BODY OF WATER: Choctawhatchee River
REMARKS: WBID 570	COUNTY: Walton	LOCATION: Seven Runs upstream of HWY 81	FIELD ID/NAME: G3NW0116	

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>12</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 <u>12</u> 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>14</u> Primary Score <u>58</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 Artificial Channelization <u>15</u>	Expected sinuosity given the stream width. No evidence of dredging or artificial straightening. No spoil banks. 20 19 18 17 16	Good sinuosity within old channelized area. Evidence of dredging in the past (>25 yrs) but mostly recovered. <u>15</u> 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>9</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. 10 <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>9</u> Left Bank <u>10</u>	Width of vegetation greater than 18 m <u>10</u> <u>9</u>	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>8</u> Left Bank <u>9</u> Secondary Score <u>69</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 <u>9</u>	>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> 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

127 TOTAL SCORE

Date: <u>8/23/21</u>	Analyst: <u>M. Butler</u>	Signature: <u>[Signature]</u>
----------------------	---------------------------	-------------------------------

SBIO ID: 82934
62-160.800, F.A.C.

HA ID: 16973

Revision Date: March 1, 2014

0-10 meter [A]	Habitat Area (M)	Left Bank	Right Bank
	Snag	Bankfull	Bankfull
0m width (m) 9	Root	+	+
10m width 11	Leaf	Slope	Slope
Avg. Depth 2.6	Veg	+	+
Max Depth 1.4	Gravel	Veg	Veg
Rip. Buff L 214	Rock	+	-
Rip. Buff R 210	Other	Other	Other

10-20 meter [B]	Habitat Area (M)	Left Bank	Right Bank
	Snag	Bankfull	Bankfull
20m width 9	Root	+	+
	Leaf	Slope	Slope
Avg. Depth 1.4	Veg	+	+
Max Depth 1.7	Gravel	Veg	Veg
Rip. Buff L	Rock	+	+
Rip. Buff R	Other	Other	Other

20-30 meter [C]	Habitat Area (M)	Left Bank	Right Bank
	Snag	Bankfull	Bankfull
30m width 9	Root	+	+
	Leaf	Slope	Slope
Avg. Depth 1.1	Veg	+	+
Max Depth 1.4	Gravel	Veg	Veg
Rip. Buff L	Rock	+	+
Rip. Buff R	Other	Other	Other

30-40 meter [D]	Habitat Area (M)	Left Bank	Right Bank
	Snag	Bankfull	Bankfull
40m width 9	Root	+	+
	Leaf	Slope	Slope
Avg. Depth 1.9	Veg	-	+
Max Depth	Gravel	Veg	Veg
Rip. Buff L	Rock	+	+
Rip. Buff R	Other	Other	Other

40 - 50 meter [E]	Habitat Area (M)	Left Bank	Right Bank
	Snag	Bankfull	Bankfull
50m width 10	Root	+	+
	Leaf	Slope	Slope
Avg. Depth 1.0	Veg	+	+
Max Depth 1.4	Gravel	Veg	Veg
Rip. Buff L	Rock	+	+
Rip. Buff R	Other	Other	Other

50-60 meter [F]	Habitat Area (M)	Left Bank	Right Bank
	Snag	Bankfull	Bankfull
60m width 10	Root	+	+
	Leaf	Slope	Slope
Avg. Depth 1.3	Veg	+	+
Max Depth	Gravel	Veg	Veg
Rip. Buff L	Rock	+	+
Rip. Buff R	Other	Other	Other

60-70 meter [G]	Habitat Area (M)	Left Bank	Right Bank
	Snag	Bankfull	Bankfull
70m width 9	Root	+	+
	Leaf	Slope	Slope
Avg. Depth 1.2	Veg	+	+
Max Depth	Gravel	Veg	Veg
Rip. Buff L	Rock	+	+
Rip. Buff R	Other	Other	Other

70-80 meter [H]	Habitat Area (M)	Left Bank	Right Bank
	Snag	Bankfull	Bankfull
80m width 8	Root	+	+
	Leaf	Slope	Slope
Avg. Depth 1.1	Veg	+	+
Max Depth	Gravel	Veg	Veg
Rip. Buff L	Rock	+	+
Rip. Buff R	Other	Other	Other

80-90 meter [I]	Habitat Area (M)	Left Bank	Right Bank
	Snag	Bankfull	Bankfull
90m width 9	Root	+	+
	Leaf	Slope	Slope
Avg. Depth 1.1	Veg	+	+
Max Depth	Gravel	Veg	Veg
Rip. Buff L	Rock	+	+
Rip. Buff R	Other	Other	Other

90 - 100 meter [J]	Habitat Area (M)	Left Bank	Right Bank
	Snag	Bankfull	Bankfull
100m width 8	Root	+	+
	Leaf	Slope	Slope
Avg. Depth 1.7	Veg	+	+
Max Depth	Gravel	Veg	Veg
Rip. Buff L	Rock	+	+
Rip. Buff R	Other	Other	Other

Station Name

Seven Runs upstream of HWY 81

Storet: G3NW0116

Date 08/23/2021

0 meter (Dec Deg)

N: 30.53923

W: -85.920625

100 meter (Dec Deg)

N: 30.53977

W: -85.92142

Water Quality Measured at

0 meter mark

Stream Velocity and location.

0.33 m/s 100 meter mark

5+313

Number of Pools & Location

High Water:

Silt smothering @

Sand Smothering @

Algae Smothering @

Degraded Banks @

Fe/Sulfur Bact. @

Total Habitat	Sq. Meters	Percent
Snags	85.7	9.5
Roots	61.29	6.87
Leaf	3.95	0.60
Veg	0.8	0.09
Rock		
Gravel		
Sand	42479	10.91
Other		
Sum 1° Habitat		

Avg. Depth	Max. Depth	Avg. Width

Bank Stability Score. Left Bank _____ Right Bank _____ Category Left Bk _____ Right Bk _____
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 - 2.9 Optimal: 2.1 +

Notes.

22% total

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: Seven Runs upstream of Hwy 81

County:
Walton

Date: 6/23/21

Investigators: M. Butler
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				60	1			
	2					2			
	3					3			
	4					4			
	5					5			
	6					6			
	7					7			
	8					8			
	9					9			
10	1				70	1			
	2					2			
	3					3			
	4					4			
	5					5			
	6					6			
	7					7			
	8					8			
	9					9			
20	1				80	1			
	2					2			
	3					3			
	4					4			
	5					5			
	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			
	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			

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:
G3NW0116

Secchi depth 1.0
Estimated?

points ranked 4-6 0
total points assessed 99
% points ranked 4-6 0

Check accompanying data collected at same site/date.
Algal mat sample
Linear Veg Survey
Habitat Assessment X
SCI/Biorecon X
Water sample X
RQ-2021-07-19-41

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. 82934

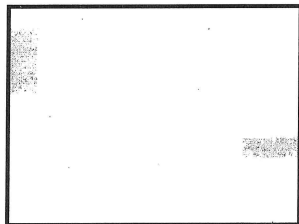
RPS Visit ID. 9763

[illegible]

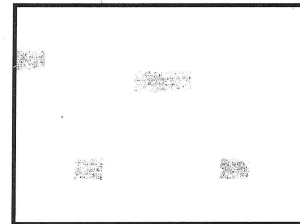
Revision Date: March 1, 2014

[illegible]

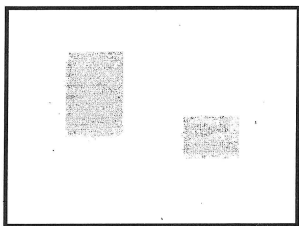
5% Macrophyte Coverage



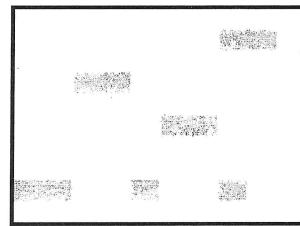
5% Macrophyte Coverage



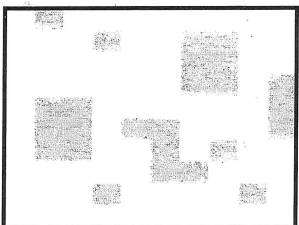
10% Macrophyte Coverage



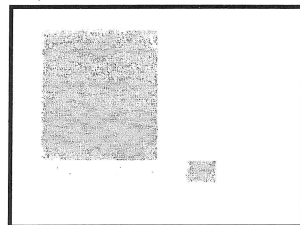
10% Macrophyte Coverage



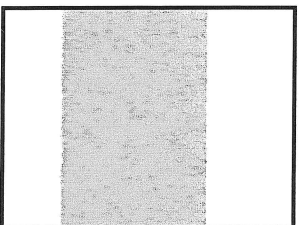
25% Macrophyte Coverage



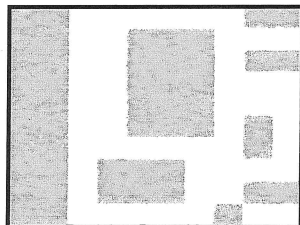
25% Macrophyte Coverage



50% Macrophyte Coverage



50% Macrophyte Coverage



Station: Seven Runs Upstream of HWY 81
Sample Date 8/23/2021
SBIO ID 82930 Benth ID 45396
Project: SMP / TMDL Studies

Storet: G3NW0116
WBID: 570
LIMS ID 2271622
RQ-2021-07-19-411

Variable Name	Rep 1	Rep 2	Pooled
AmphipodPct	0	0	0
ChironPct	14.89	11.27	13.08
ChironTaxa	9	8	17
ClingerTaxa	11	10	21
ColeopteraPct	5.67	9.86	7.765
DecapodaPct	0	0.7	0.35
DipteraPct	24.11	21.83	22.97
DominantPct	9.93	9.15	9.54
Dominant Taxa	Enchytraeidae	Maccaffertium	
EPTTaxa	14	15	29
EphemPct	10.64	12.68	11.66
EphemTaxa	2	4	6
FFBrowGrazPct	0	0	0
FFEpiColDepPct	24.11	22.18	23.145
FFParasitePct	0	0	0
FFPIPiercePct	0	2.82	1.41
FFPredCarnPct	21.28	23.94	22.61
FFScavPct	0	1.06	0.53
FFScrapePct	10.28	10.92	10.6
FFShredPct	11.7	13.73	12.715
FFSubColDepPct	15.6	11.97	13.785
FFSuspFiltPct	16.31	13.38	14.845
FFUnknownPct	0.71	0	0.355
GastropodaPct	0	0	0
IsopodaPct	0	0	0
LongLivedTaxa	4	4	8
OdonataPct	7.09	7.75	7.42
OligocPct	15.6	11.97	13.785
OligocTaxa	3	3	6
PelecypodaPct	0	1.41	0.705
PlecopPct	4.96	3.52	4.24
PolychaetePct	0	0	0
PolychaeteTaxa	0	0	0
SCI_2012_Rep	68.59999898	73.10151128	70.85075513
SensitiveTaxa	12	12	24
TanytarsiniPct	0.71	0	0.355
TotalDBar	0	0	0
TotalDensity	0	0	0
TotalNind	141	142	283
TotalTaxa	39	43	82
TrichopPct	29.08	29.58	29.33
TrichopTaxa	9	9	18
TrombidPct	2.13	0.7	1.415
VeryTolerantPct	4.26	0.7	2.48

SCI 2012 71