



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2020

Meter Passed End
of Day CCV
Yes / No

WIN Station Name: Fort Gadsden Creek near SR65 **Date:** 7/15/2021
WIN/Field ID: G2TLHR0012 **WBID:** 1240 **ENR:** - **Latitude:** 29.9166
County: FRANKLIN **Org ID:** 21FLTLHR **Longitude:** -84.98
Receiving Body of Water: Apalachicola - Chipola **RQ:** 2021-01-25-43

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
☒	Terry "Chris" Green	x		x		
☒	Paul Blair		x		x	x
☐						
☐						

Sampling Equipment	
☒ Sample Container	☐ Carboy
☐ Dipper	☐ Van Dorn
☒ Syringe	☐ Pole
Depth measured with: Sonar	
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# 153484
Photos:	Flow: FLOW	Tide:
Tide Times: High: Low:		
Biological Samples Collected: ☒ None ☐ HA ☐ SCI ☐ RPS ☐ Algae ID ☐ LVS ☐ LVI Other:		
SBIO ID Numbers:		
Notes:		

Duplicate Sample

Time Zone: EST	Time:	Field ID: N/A (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: 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 Migrate Data to WIN: Verify Data In WIN:
(Initials/Date) (Initials/Date) (Initials/Date)



RQ-2021-01-25-43

Customer: WQAP

Project ID: SMP

Collected By: Terry "Chris" Green, Paul Blair

Field Report Prepared By: Terry "Chris" Green

Sampling Agency: FDEP

Place Label Here						Comments:				
WIN ID/Field ID:  G2TLHR0012										
Location: Fort Gadsden Creek near SR65										
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 _h)
7/15/2021	1035 EST	2.24	28	25.5	4.19	0.3	0.3 0.6 ☐ VOB (S)	0.8 3.6	33.7	0.01
	10:40 EST	2.98	36.0	25.4	4.08	3.1			34.1	0.01
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 Lot # SA1105060 Exp: 01/04/22				☒ Ice ☒ H2SO4*		☒ <2	1	B
Metals (P-500ML)		☒ W-ICPMS ☒ W-ICP ☒ W-HARD Lot # NA0344060 Exp: 01/04/22				☒ Ice ☒ HNO3*		☒ <2	1	B
Filtered Nutrients (P125ML)		☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter Filter Lot # Na Syringe Lot # 0079900				☒ Ice			1	B
Chlorophyll (BP-1L)		☒ CHLSUITE-W				☒ Ice			1	B
Physical/Aggregate (Fresh) (P-1L)		☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CL-IC / W-COLOR / W-SO4-IC / W-TDS				☒ Ice			1	B
Physical/Aggregate (Marine) (P-1L)		☒ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY				☒ Ice			1	B
Macroinvertebrates (PJ-2L)		☐ MI-FW-QLDC Formalin Lot #				☐ Formalin				
Periphyton (PT-50ML)		☐ ALGAE-ID				☐ Ice				
Microbiology (Contract Lab Bottle)		☒ E Coli ☐ F Coli ☐ Enterococci ☐ Contract Lab				☒ Ice			1	B
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 W-E8321-MS W-PSNP-TQ W-CT-CL-R W-PCL-TQ-R W-CARB-AA (5 ml of MCAA** Buffer Solution)				☐ Ice				
Phytoplankton/Periphyton		DTY-QN-C PKD-QN-BV				☐ Ice				
Name: Terry "Chris" Green Paul Blair						Signature: 			Date: 7-15-2021	

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution

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

Station Visit 82691

SAMPLE ID _____ ORG ID 21FLTLHR LATITUDE _____
 COUNTY Liberty STORET # _____ LONGITUDE _____
 DATE 7-15-2021 TIME 11:00 SAMPLING AGENCY 21FLTLHR
 SITE NAME Fort Gadsden
 FIELD ID/NAME G2TLHR0012 RECEIVING BODY OF WATER Apalachicola

RIPARIAN ZONE / STREAM FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category): Forest/Natural <u>20</u> Silviculture <u>80</u> Field/Pasture _____ Agricultural _____ Residential _____ Commercial _____ Industry _____ Other (Specify) _____								Landscape Development Intensity Index (LDI) _____	
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>20</u> m wide <u>0.01</u> m/s <u>0.01</u> m/s <u>0.01</u> m/s <u>3.6</u> m deep <u>3.6</u> m deep <u>3.6</u> m deep <u>0.20</u> <u>0.20</u> <u>0.20</u>			
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank: <u>218</u> Right Bank: <u>218</u>				Hydrologic Modification Score (per FT 3101) _____					
High Water Mark: <u>0.75</u> + <u>3.6</u> = <u>4.35</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

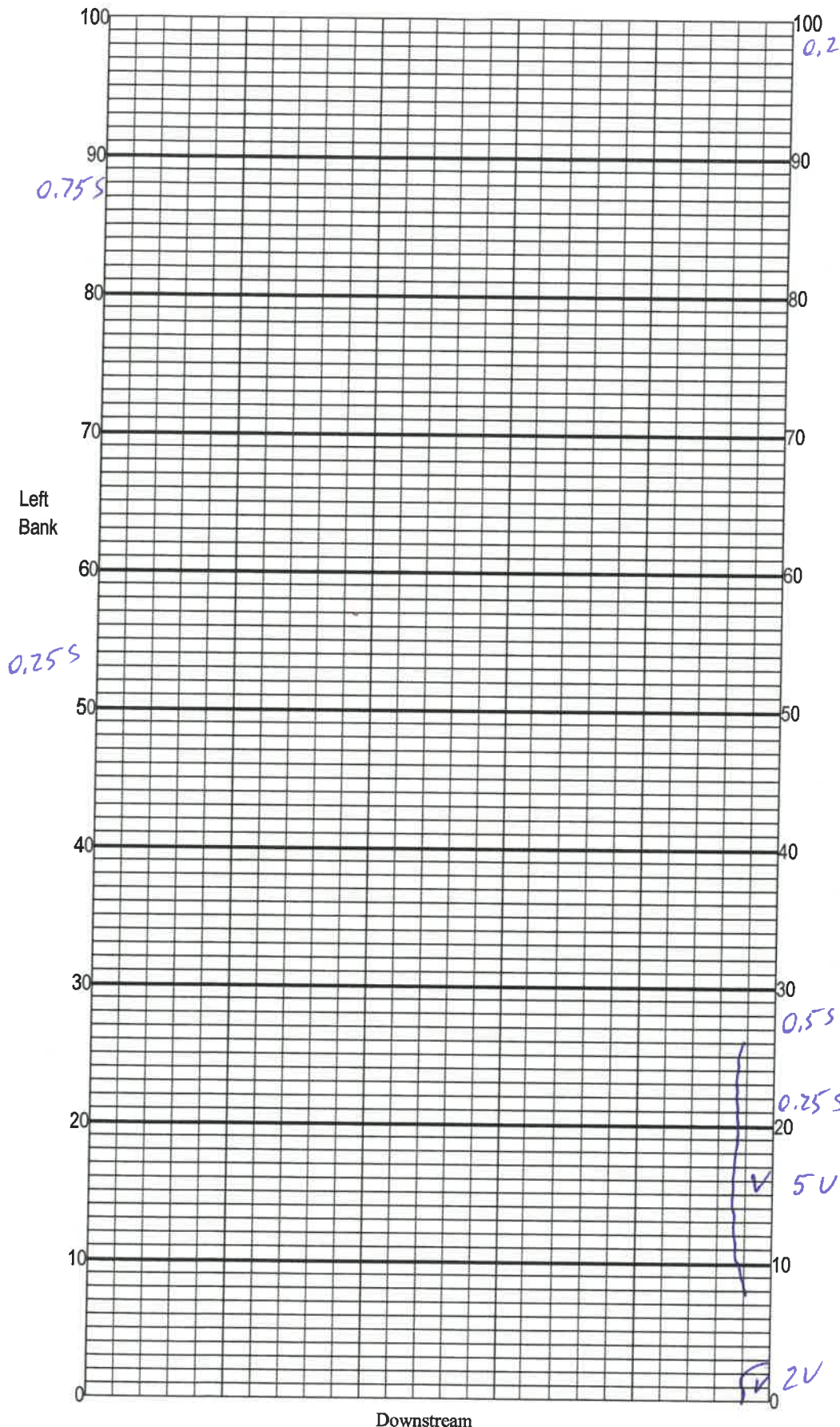
Sediment Oils ☒ Absent ☐ Slight ☐ Moderate ☐ Profuse		Sediment Odors ☒ Normal ☐ Sewage ☐ Petroleum ☐ Chemical ☐ Anaerobic ☐ Other (Specify): _____		Smothering of Substrates Sand Smothering: None ☐ Slight ☒ Moderate ☐ Severe ☐ Silt Smothering: None ☐ Slight ☐ Moderate ☒ Severe ☐ Algae Smothering: None ☐ Slight ☐ Moderate ☒ Severe ☐	
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SUBSTRATE TYPE Assessment Tool: ☐ SCI ☒ RPS ☒ LVS ☐ LCI ☐ BioRecon INVERT PERI % # Times # Times Coverage Sampled Sampled				WATER QUALITY							
Woody Debris (Snags) <u>0.1</u> Undercut Banks / Roots <u>0</u> Leaf Packs or Mat <u>0</u> Aquatic Vegetation <u>0.35</u> Rock or Shell Rubble.. <u>0</u> Sand..... <u>20.45</u> Mud / Muck / Silt <u>79.55</u> Other Other				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>25.5</u> <u>4.19</u> <u>2.24</u> <u>28</u> <u>33.7</u> <u>0.01</u> <u>0.6</u> Mid: _____ Bottom: <u>3.1</u> <u>25.4</u> <u>4.08</u> <u>2.98</u> <u>36</u> <u>34.1</u> <u>0.01</u> <u>0.6</u> Meter ID: _____ TOTAL DEPTH <u>3.6</u>							
Water Odors Normal ☒ Petroleum ☐ Sewage ☐ Chemical ☐ Other ☐				Water Surface Oils Normal ☒ Sheen ☐ Globbs ☐ Slick ☐ Other ☐				Color Tannic ☒ Green (Algae) ☐ Clear ☐ Other (Specify) ☐			
Water Sample Taken? ☒ Yes ☐ No Sample Preserved? ☒ Yes ☐ No Lot Number: _____ Exp: _____				Algae Sample Taken? ☐ Yes ☒ No Sample Preserved? ☐ Yes ☒ No Lot Number: _____ Exp: _____				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>site is always low flow</u> ☒ The antecedent hydrologic conditions have been met to my best knowledge.							

SAMPLING TEAM Chris Green / Paul Blair SIGNATURE: Chris Green DATE: 7-15-2021

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



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

Location: Fort badsden
62TLH0012
Date: 7-15-2021
Sampler: Chris Green

100 m: Latitude _____
Longitude _____
0 m: Latitude _____
Longitude _____

Substrates: Code key, draw proportionate habitat abundance. %

☒ S	Snags	0.1
☐	Roots/undercut banks	0
☒ Y	Leaf Packs (or mats)	0
☒ Y	Aquatic Macrophytes	0.35
☐	muck	99.55
☐		
☒ O	Pools	total # observed = 0 # range expected =

Average width 20 m
Average depth 3.6 m

Velocity measured at 0 meter mark.

WQ & chemistry taken at 0 meter mark.

Habitat Smothering:
Note areas (on map) where sand or silt is smothering substrates, limiting habitability.

Bank Stability: no real Banks (Swamp)
Note areas (on map) with unstable, eroding banks.

Riparian Buffer Width: >18
Note areas (on map) where natural vegetation is altered or eliminated.

Plants observed / other notes:

$2S = 0.1(S)$
 $7V = 0.35(V)$

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

16901

SAMPLING AGENCY: <u>21FLTZHR</u>		STORET STATION NUMBER: <u>62TLHR0012</u>	DATE (MM/DD/YY): <u>7-15-21</u>	RECEIVING BODY OF WATER: <u>Apalachicola River</u>
REMARKS: <u>Wetland</u>	COUNTY: <u>Liberty</u>	LOCATION: <u>Fort Gadsden</u>	FIELD ID/NAME:	

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>2</u>	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Substrate Availability <u>2</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 4 3 2 1
Water Velocity <u>1</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 5 4 3 2 1
Habitat Smothering <u>4</u> ----- Primary Score <u>9</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 or straightening 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>20</u>	20 19 18 17 16	15 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 woody 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 woody root zone with raw, eroded areas.
Right Bank <u>10</u> Left Bank <u>10</u>	10 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>	10 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>10</u> Left Bank <u>10</u> ----- Secondary Score <u>80</u>	10 9	8 7 6	5 4	3 2 1

89

TOTAL SCORE

Date: <u>7-15-2021</u>	Analyst: <u>Chris Green</u>	Signature: <u>Chris Green</u>
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9746

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: Fort Gadsden
G2TLHR0012

County: Liberty

Date: 7-15-2021

Investigators: Chris Green

STORET Station Number:
G2TLHR0012

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	X			60	1	X		
	2	X				2	N	✓	
	3	N	✓			3	N	✓	
	4	N	✓			4	N	✓	
	5	N	✓	90		5	N	✓	92
	6	N	✓			6	N	✓	
	7	N	✓			7	N	✓	
	8	X				8	X		
	9	X				9	X		
10	1	X			70	1	X		
	2	X				2	X		
	3	N	✓			3	N	✓	
	4	N	✓			4	N	✓	
	5	N	✓	78		5	N	✓	88
	6	N	✓			6	N	✓	
	7	N	✓			7	N	✓	
	8	X				8	X		
	9	X				9	X		
20	1	X			80	1	X		
	2	X				2	X		
	3	N	✓			3	N	✓	
	4	N	✓			4	N	✓	
	5	N	✓	84		5	N	✓	80
	6	N	✓			6	N	✓	
	7	X				7	N	✓	
	8	X				8	N	✓	
	9	X				9	X		
30	1	X			90	1	X		
	2	X				2	X		
	3	N	✓			3	X		
	4	N	✓			4	N	✓	
	5	N	✓	92		5	N	✓	84
	6	N	✓			6	N	✓	
	7	N	✓			7	N	✓	
	8	X				8	X		
	9	X				9	X		
40	1	X			100	1	X		
	2	X				2	X		
	3	N	✓			3	X		
	4	N	✓			4	N	✓	
	5	N	✓	81		5	N	✓	87
	6	N	✓			6	N	✓	
	7	N	✓			7	X		
	8	X				8	X		
	9	X				9	X		
50	1	X				1	X		
	2	X				2	X		
	3	N	✓			3	X		
	4	N	✓			4	N	✓	
	5	N	✓	86		5	N	✓	
	6	N	✓			6	N	✓	
	7	N	✓			7	X		
	8	X				8	X		
	9	X				9	X		

Secchi depth	0.6
Estimated?	NO

# points ranked 4-6	1
total points assessed	99
% points ranked 4-6	0.01

Check accompanying data collected at same site/date.	
Algal mat sample	
Linear Veg Survey	✓
Habitat Assessment	✓
SCI/Biorecon	
Water sample	✓
RQ- 2021-01-25-420	

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 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%.

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

WIN: 62TLHRO012

Waterbody: <i>Fort Gadsden</i>	Date: <i>7-15-2016</i>	County: <i>Liberty</i>	Storet Number: <i>ca</i>
Analyst: <i>Chris Green</i>	Signature: <i>[Signature]</i>		

Comments:

Instructions: Note taxa growing in the water with a checkmark if present, "D" if dominant, and "C" if codominant (dominance only if 1m² 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.

[illegible]