



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2020

Meter Passed End

of Day CCV

Yes / No

WIN Station Name: Bull Creek @ Upstream Of Rattlesnake Slough

Date: 12/21/2020

WIN/Field ID: G3CE0026

WBID: 3100

ENR:

Latitude: 28.0306

County: OSCEOLA

Org ID: 21FLCEN

Longitude: -81.0365

Receiving Body of Water: Upper St. Johns

RQ: 2020-12-07-25

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
☒	Natalie Ayala	x	x	x	x	x
☒	Victoria Schwartz	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# CRAW DADDY	
Photos: No		Flow: FLOW		Tide:		Tide Times: High: Low:	
Biological Samples Collected:		☐ None	☒ HA	☒ SCI	☒ RPS	☐ Algae ID	☒ LVS ☐ LVI Other:
SBIO ID Numbers: SBIO 81737		RPS 9632		No LVS, box shouldn't be checked- KM			LIMS 2215353
Notes:							

Duplicate Sample

Time Zone: EST	Time: N/A	Field ID: N/A	(WIN ID_DUP)
WIN DMT Activity ID:			

Blank

Time Zone:	Time: N/A	Field ID: N/A	(Blank Type_DDMYYYY)
DI Source: N/A		Location: N/A	
DI Type: N/A		Equipment ID: N/A	

LIMS EVENT ID: CEN-DIST-2020-12-22-01

WIN Import ID: 24310

Enter Field Parameters, Verify Station ID In LIMS DMT: KWM 12/23/20

(Initials/Date)

QC Station ID, Field Parameters In LIMS DMT: TR 1/5/2021

(Initials/Date)

Scan/Save Field Sheets KWM 3/10/21

(Initials/Date)

Migrate Data to WIN: KWM 3/10/21

(Initials/Date)

Verify Data In WIN:

(Initials/Date)



RQ-2020-12-07-25

Customer: WQAP

Project ID: SMP

Collected By: Natalie Ayala, Victoria Schwartz

Field Report Prepared By: Natalie Ayala

Sampling Agency: FDEP

Place Label Here

WIN ID/Field ID:



G3CE0026

Location: Bull Creek @ Upstream Of Rattlesnake Slough

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 (PPTH)
12/21/2020	1420 EST	3.09	32.7	18	3.96	0.3	0.4 ☐ VOB (S)	0.5	109.9	0.05

Central Lab please use top row for login purposes

	EST									

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 # SA0293040 Exp: 10/19/21	☒ Ice ☒ H2SO4*	☒ <2	1	A
Metals (P-500ML)	☒ W-ICPMS ☒ W-ICP ☒ W-HARD Lot # NA0038050 Exp: 02/07/21	☒ Ice ☒ HNO3*	☒ <2	1	A
Filtered Nutrients (P125ML)	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter Filter Lot # Syringe Lot #	☒ Ice		1	A
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		3	C
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 ☐ W-PCL-SQ-R ☐ W-CARB-AA (5 ml of MCAA** Buffer Solution)	☒ Ice		5	A
		☐ Ice			

Name:
Natalie Ayala
Victoria Schwartz

Signature:

Date:

12/21/2020

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution

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

SAMPLING AGENCY: 21FLCEN	STORET STATION NUMBER:	DATE (MM/DD/YY): 12/21/20	RECEIVING BODY OF WATER: Upper St. Johns
REMARKS:	COUNTY: Osceola	LOCATION: Trail Creek @ upstream of Rattlesnake Slough	FIELD ID/NAME: G3CE0026

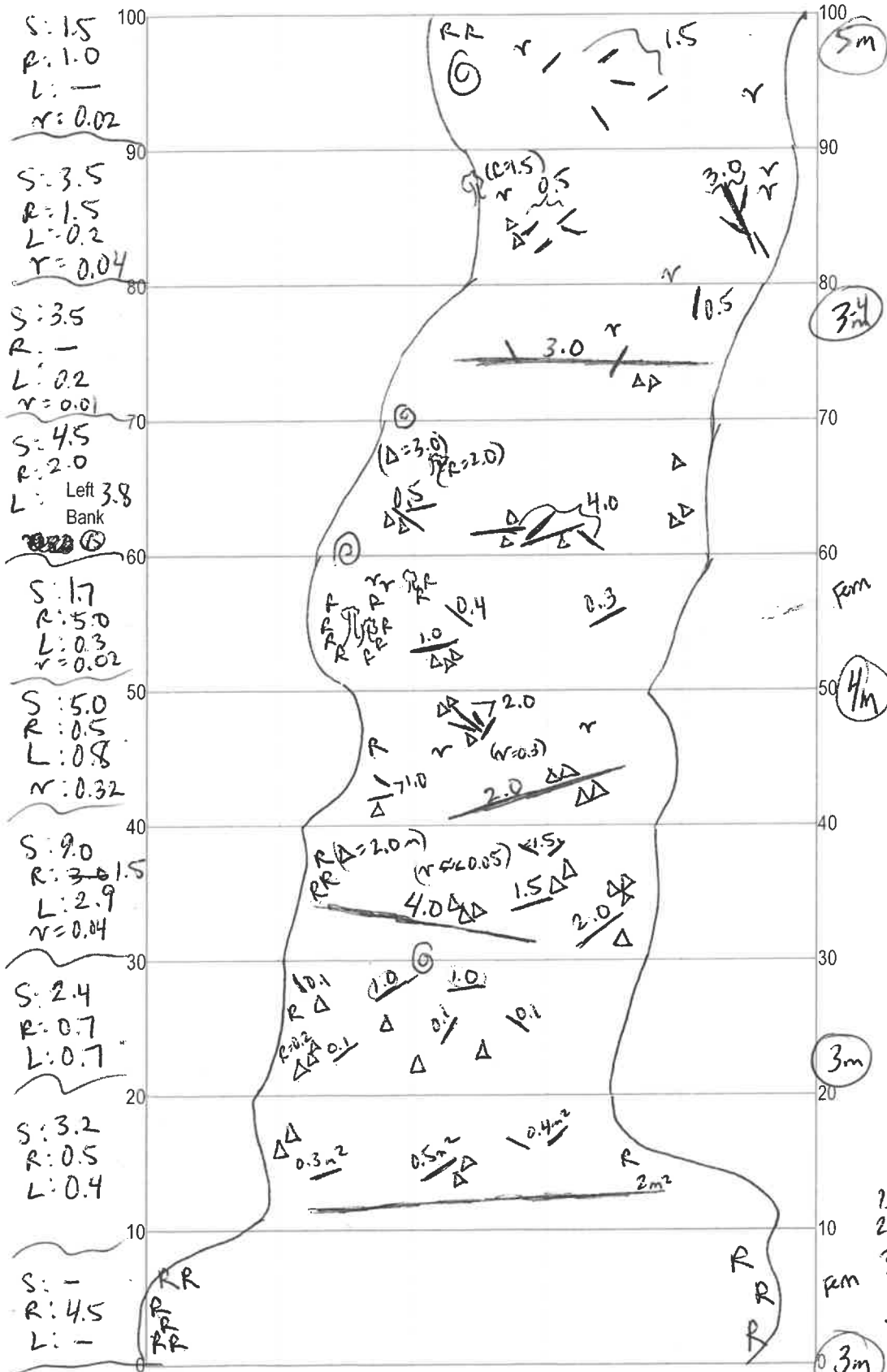
Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components Substrate Diversity 15	Four or more major productive habitats present (snags, tree roots, aquatic vegetation, leaf packs (partially decayed), rock) 20 19 18 17 16	Three major productive habitats present. Adequate habitat. Some substrates may be new fall (fresh leaves or snags) 15 14 13 12 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 13	Greater than 30% major productive habitat present at site 20 19 18 17 16	16% to 30% major productive habitat, by aerial extent 20, 21 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 14	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 0.20 m/s 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 19 ----- Primary Score 61	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 20	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 or straightening 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 10 Left Bank 10	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. 10 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 woody root zone with raw, eroded areas. 3 2 1
Riparian Buffer Zone Width Right Bank 10 Left Bank 10	Width of vegetation greater than 18 m 10 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 10 Left Bank 10 ----- Secondary Score 80	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 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

141 TOTAL SCORE

Date: 12/21/20	Analyst: Natalie Ayala / Victoria Schwartz	Signature: /
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28.0303414, -81.0373590

Bull Creek @ upstream of Rattlesnake Slough (WBID: 3100/G3CE0026)



Location: Little Creek

Date: 12/21/20

Sampler: Natalie Ayala/Victoria Schwartz

100 m: Latitude (28.0303414, -81.0373590)

Longitude

0 m: Latitude 28.030582

Longitude -81.036856

Station

Substrates: Code key, draw proportionate habitat abundance. %

☒	Snags	<u>11.4</u>
☒	Roots/undercut banks	<u>5.7</u>
☒	Leaf Packs (or mats)	<u>3.1</u>
☒	Aquatic Macrophytes	<u>0.15</u>
☐		
☐		
☒	Pools	total # observed = <u>4</u> # range expected = <u>3-6</u>

Average width 4.3 m

Average depth 0.5 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:
Note areas (on map) with unstable, eroding banks.

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

Plants observed / other notes:

1. Baby tears (*Micranthemum*)
2. Alligator weed (*Alternanthera philoxeroides*)
3. Lemna (rare)

* veg = 0.45 m² total
↳ no LVS (< 2 m²)

S: 34.3 m²
R: 17.2
L: 9.3
V: 0.45

62-150.800, F.A.C

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

R = 0.5 m²
Δ = 0.1 m²
r = 0.01

Revision Date: March 1, 2014

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

SAMPLE ID _____ ORG ID 21 FL CEN LATITUDE 28.03058221
 COUNTY Osceola STORET # _____ LONGITUDE -81.036856
 DATE 12/21/20 TIME 14:20 SAMPLING AGENCY FDEP CEN-ROC
 SITE NAME Bull Creek @ upstream of Rattlesnake Slough (LWBID: 3100)
 FIELD ID/NAME G3CE0026 RECEIVING BODY OF WATER Upper St. Johns

RIPARIAN ZONE / STREAM FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category): Forest/Natural <u>20</u> Silviculture _____ Field/Pasture <u>80.75</u> Agricultural _____ Residential _____ Commercial _____ Industry _____ Other (Specify) <u>Waste Disposal Timber Processing</u>								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>VS</u> <u>43</u> m wide _____ m/s <u>0.20</u> m/s _____ m/s <u>5 sec</u> _____ m deep <u>0.5</u> m deep _____ m deep		
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank: <u>718m</u> Right Bank: <u>718m</u>				Hydrologic Modification Score (per FT 3101) _____				
High Water Mark: <u>0.2</u> + <u>0.5</u> = <u>0.7</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			<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>WATER QUALITY</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>18.0</u></td> <td><u>3.96</u></td> <td><u>3.09</u></td> <td><u>32.7</u></td> <td><u>109.9</u></td> <td><u>0.05</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>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>TOTAL DEPTH</td> </tr> <tr> <td colspan="8"> Meter ID: <u>Craw Daddy</u> </td> <td><u>0.5</u></td> </tr> </tbody> </table>						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>18.0</u>	<u>3.96</u>	<u>3.09</u>	<u>32.7</u>	<u>109.9</u>	<u>0.05</u>	<u>0.4</u>	Mid:	_____	_____	_____	_____	_____	_____	_____	☐ VOB	Bottom:	_____	_____	_____	_____	_____	_____	_____	TOTAL DEPTH	Meter ID: <u>Craw Daddy</u>								<u>0.5</u>
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Other	_____	_____	_____																																																		
Water Sample Taken? ☒ Yes ☐ No Sample Preserved? ☒ Yes ☐ No Lot Number: <u>SA0293040</u> Exp: <u>10/19/21</u> <u>NA0038050</u> <u>02/07/21</u>			Color Tannic ☒ Green (Algae) ☐ <u>VS</u> 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: Sunny w/ cool temps <u>*NO LWS performed (<2m² veg. in water)</u> ☒ The antecedent hydrologic conditions have been met to my best knowledge.																																																					
SAMPLING TEAM <u>Natalie Ayala Victoria Schwartz</u>						SIGNATURE: <u>[Signature]</u>		DATE: <u>12/21/20</u>																																													

Little Creek (WBID: 3100 / G3CE0026)

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: Bull Creek @ upstream of
Parker Lake Slough

County:
Osceola

Date:
12/21/20

Investigators:
Natalie Ayala/Victoria Schwartz

STORET Station Number:
G3CE0026

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	N	✓	78		5	N	✓	86
	6		✓			6			✓
	7					7			✓
	8					8			
	9					9			
10	1				70	1			
	2					2			
	3					3			✓
	4		✓			4			✓
	5	N	✓	75		5	N	✓	62
	6		✓			6			✓
	7					7			✓
	8					8			
	9					9			
20	1				80	1			
	2					2			
	3					3			✓
	4		✓			4			✓
	5	N	✓	77		5	N	✓	68
	6		✓			6			✓
	7					7			✓
	8					8			
	9					9			
30	1				90	1			
	2					2			
	3					3			✓
	4		✓			4			✓
	5	N	✓	73		5	N	✓	78
	6		✓			6			✓
	7					7			✓
	8					8			
	9					9			
40	1				100	1			
	2					2			
	3					3			✓
	4		✓			4			✓
	5	N	✓	48		5	N	✓	67
	6		✓			6			✓
	7					7			✓
	8					8			
	9					9			
50	1				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%.				
	2								
	3								
	4		✓						
	5	N	✓	86					
	6		✓						
	7								
	8								
	9								

Secchi depth 0.4
Estimated?

points ranked 4-6 0
total points assessed 19
% 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 ✓

RQ- 2020-12-07-25

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

*No LVS performed due to <2m² vegetation in water

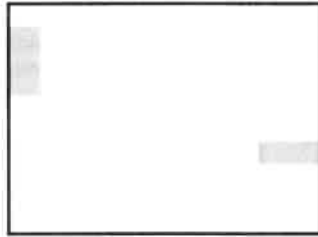
Little Creek

[illegible]

FDEP FORM FD 9000-32 LINEAR VEGETATION SURVEY FIELD SHEET

Percent Cover Categories for macrophytes in a 10 m segment of a stream 5 m wide

5% Macrophyte Coverage



5% Macrophyte Coverage



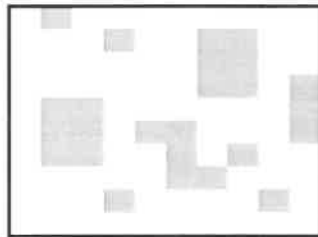
10% Macrophyte Coverage



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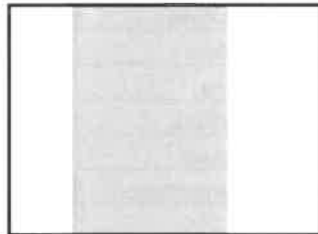
25% Macrophyte Coverage



25% Macrophyte Coverage



50% Macrophyte Coverage



50% Macrophyte Coverage

