FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2020

Meter Passed End of Day CCV: Yes / No

WIN Station Name: See label on page 2 **Date:** 3 / 10 / 2020 (mm/dd/yyyy)

WIN/ Field ID: See label on page 2 **WBID:** 1774 **Latitude:** (Decimal Degrees)

County: **ORG ID:** 21FLTPA **Longitude:** (Decimal Degrees)

Receiving Body of Water: **RQ-2020-** 03-09-67

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Judy Ashton	✓		✓		
Ben Rosenthal		✓		✓	

Sampling Equipment

- [x] Sample Container
- [ ] Van Dorn
- Syringe
- Pole
- Dipper
- Other
- Depth Measured with
- Equipment ID: Secchi #3

Collection Method

- [x] Wading
- [ ] From Shore
- Other
- [ ] Canoe/Kayak
- [ ] Electric Motor
- [ ] Gasoline Motor

Water Level: Dry/ Pooled/ Low / Normal / High / Flooded

Meter ID# Chewy

Photos: Yes / No

Flow: No Flow / Flowing / NA

Tide: Rising/ Falling/ Slack/ NA

Tide Times: High Low

Biological Samples Collected: None HA SCI RPS Algae ID LVS LVI Other:

SBIO ID Numbers:	SBIO-ID: 80849	HA-ID: 16567	RPS-ID: 9561	Macrophyte-ID: < 2m²	LIMS#: —

Notes:

Duplicate Sample

Time Zone: EST **Time:** **Field ID:** (WIN ID_DUP)

WIN DMT Activity ID:

Blank

Time Zone: EST **Time:** **Field ID:** (Blank Type_DDMMYYYY)

DI Source: SWDIST DI Machine **Location:**

__ Field Blank ☐ Equipment Blank ☐ Field Cleaned Equioment Blank **Equipment ID:**

LIMS EVENT ID: 2020-03-11-03 **WIN Import ID:** 19647

Enter Field Parameters, Verify Station ID In LIMS DMT: SM 03/25/2020 (Initials/Date) **QC Station ID, Field Parameters In LIMS DMT:** SM 04/14/2020 04/21x (Initials/Date)

Scan/Save Field Sheets (Initials/Date) **Migrate Data to WIN:** SM 04/28/2020 (Initials/Date) **Verify Data In WIN:** SM 09/08/2020 (Initials/Date)

RQ-2020- see page 1 Collected By: SWROC
Customer: SWROC Field Report Prepared By:
Project ID: SMP Sampling Agency: DEP SWROC

Field ID/WIN G3SW0089

Site Name: Little Charlie Creek @ 664

Comments: E. COLI ACCEPTS WFO AEL

HA, RPS, LVS (A-KIT + E. COLI)

Matrix: (Fresh) / Marine (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)
3-10-20	1400 EST	11.42	126.9	20.4	8.29	0.3	0.5 ☑ VOB (S)	0.5	609	0.30
	↑ Cental 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	☐ Ice ☐ H_2SO_4*	☑ <2	1	A
	Lot # SA9301030 Exp:	10/28/2020			
Metals (P-500ML) NO	☐ W-HGES ☐ W-ICP ☐ W-HARD	☐ Ice ☐ HNO_3*	☑ <2	+	A
	Lot # NA9189080 Exp:	7/8/2020			
Filtered Nutrients (P125ML)	☑ W-PO4-F ☑ Field Filtered 0.45 µm Filter	☑ Ice		1	A
	Filter Lot # 16968882				
	Syringe Lot # 9056849				
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			B
Periphyton (PT-50ML)	☐ ALGAE-ID	☐ Ice			
Microbiology (Contract Lab Bottle)	☑ E Coli ☐ F Coli ☐ Enterococci ☐ Contract Lab	☑ Ice		1	A B
Molecular (QPCR-P-500ML)	☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-DG3 ☐ PCR-GULL2 ☐ PCR-GFD ☐ See Notes	☐ Ice			
Tracers (BG-500ML) NO	☑ W-E8321-DI ☑ W-E8321-MS	☑ Ice		+	A
Pesticides (BG-500ML) (BG-1L) NO	☐ 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		2	A

Name: Lindy Ashton Signature: Lindy Ashton Date: 3 /10 /2020

*2.0 ml of Preservative used unless noted otherwise.
**MCAA: Monochloroacetic acid buffer solution

Request Number: RQ-2020-03-09-67

Little Charlie HA

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: SW-DIST

Project ID: SMP

Requester: Judy Ashton

Collected By: J. ASHTON

Field Report Prepared By: Judy Ashton

Sampling Agency: FDEP

Location Field ID/WIN G3SW0089 Site Name: Little Charlie Creek @ 664	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 3-10-20 Time 1400 Eastern Central		Composite end Date Time	Bottle Group(s) (See pg 2) A
	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 1142 ☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
	Temp (C) 1400	pH 8.29	Sample Depth 0.3 ☐ ft ☒ m	Sp. Conductance (umho/cm) 609	
☐ dms ☐ dd ☐ dms	Salinity (ppt) 0.30	Comments E. COLI DROPPED OFF @ AEL			

Location	☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time Eastern Central		Composite end Date Time	Bottle Group(s)
Field ID	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
WIN/STORET #	Temp (C)	pH	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)	
Latitude ☐ dd ☐ dms / Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments			

Location	☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time Eastern Central		Composite end Date Time	Bottle Group(s)
Field ID	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
WIN/STORET #	Temp (C)	pH	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)	
Latitude ☐ dd ☐ dms / Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments			

Location	☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time Eastern Central		Composite end Date Time	Bottle Group(s)
Field ID	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
WIN/STORET #	Temp (C)	pH	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)	
Latitude ☐ dd ☐ dms / Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments			

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
J. Ashton	3-10-20 1600	FBS Ky	2		

Group: A	Bottle Type:	P-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab 1
	ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS					

Group: A	Bottle Type:	BP-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab 1
	CHLSUITE-W					

Group: A	Bottle Type:	P-500ML	# of Bottles: 1	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab 1
	W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC					

Group: A	Bottle Type:	P-125ML	# of Bottles: 1	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab 1
	W-PO4-F					

GROUP A 250mL SW-AEL-ECO ICE # SENT TO AEL 1

Field ID/WIN G3SW0089

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

Site Name: Little Charlie Creek @ 664

STORET STATION NUMBER: see sticker	DATE (MM/DD/YY): 3-10-20	SAMPLING AGENCY: FDEP SWROC
FIELD ID/NAME: see sticker	LOCATION:	COUNTY: Hardee
		RECEIVING BODY OF WATER: Peace River

Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components **Substrate Diversity** 10	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 6	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 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 0.25 (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 17 Primary Score 47	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** 18	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. 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 9 Left Bank 9	Bankfull > 60% of bank height. Slope of bank ≤ 60° from bankful to top of bank. Bankfull is within or above the root zone with few raw, eroded areas. 10 (9) LR	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 10 Left Bank 10	Width of vegetation greater than 18 m LR (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 8 Left Bank 8 Secondary Score ~~80~~ 72	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. LR (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

119 ~~117~~ **TOTAL SCORE**

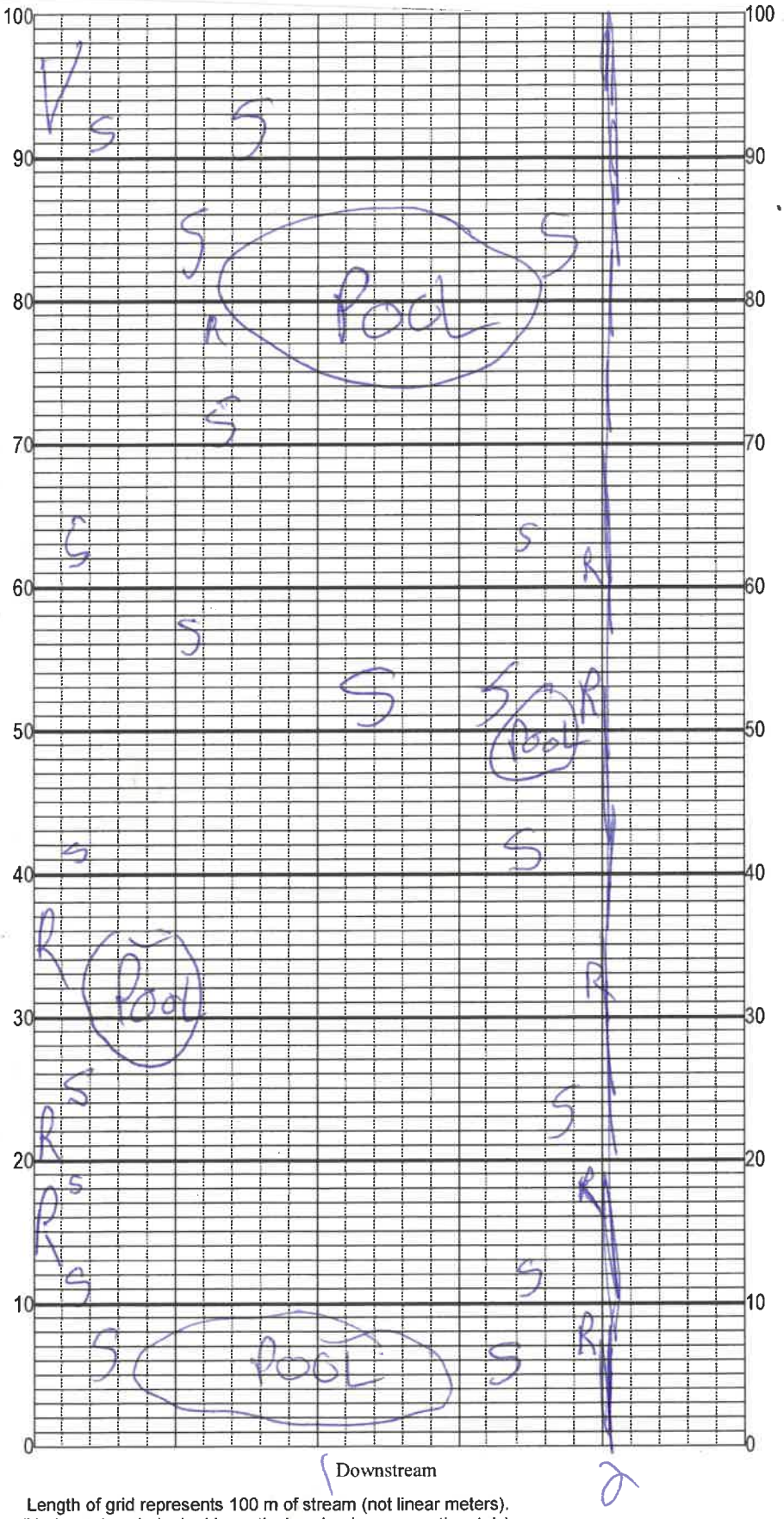
Date: 3/10/20	Analyst: Ben Pagwater	Signature: Ben Pagwater

Field ID/WIN G3SW0089

2020-03-09-67

Site Name: Little Charlie Creek @ 664

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: _____

Date: 3-10-20

Sampler: _____

100 m: Latitude _____
Longitude _____

0 m: Latitude _____
Longitude _____

Substrates: Code key, draw proportionate habitat abundance. %

S	Snags	3.1
R	Roots/undercut banks	1.9
	Leaf Packs (or mats)	
V	Aquatic Macrophytes	few
	ROCKS	
4	Pools	total # observed = 4
		# range expected = 4

Average width 2.0 m
Average depth 0.5 m

Velocity measured at _____ meter mark.

WQ & chemistry taken at _____ 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:

S 62
R 38

62-160.800, F.A.C

Revision Date: March 1, 2014

Field ID/WIN G3SW0089

Site Name: Little Charlie Creek @ 664

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

21FLTPA ___ LATITUDE _____

Y _____ LONGITUDE _____

SAMPLING AGENCY FDEP SW ROC

RECEIVING BODY OF WATER Peace Riva

RIPARIAN ZONE / STREAM FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category) :

Forest/Natural	Silviculture	Field/Pasture	Agricultural	Residential	Commercial	Industry	Other (Specify)
50		30	15	5			

Landscape Development Intensity Index (LDI)

Local Watershed Erosion (select one): ☐ None ☑ Slight ☐ Moderate ☐ Heavy

Local Watershed NPS Pollution : ☑ No evidence ☐ Slight ☐ Moderate ☐ Heavy

Width of Riparian Vegetation (m) on Each Buffer Side

Left Bank : >18 Right Bank : >18

Hydrologic Modification Score (per FT 3101)

High Water Mark: .5 (m) + 2.5 (above present water level) = 3.0 (present depth) (above bed)

Artificially Impounded ☐ Yes ☑ No

Typical Width (m) Depth (m)/Velocity (m/sec) Transect

2 m wide

.25 m/s	.25 m/s	.21 m/s
.5 m deep	.6 m deep	.5 m deep

Artificially Channelized : ☑ No ☐ Some recovery ☐ Mostly recovered, more sinuous ☐ Recent, severe

Canopy Cover % ☐ Open ☑ Heavily Shaded ☐ Lightly Shaded (11-45%) ☐ Moderate Shaded (46-80%)

SEDIMENT / SUBSTRATE

Sediment Oils ☑ Absent ☐ Slight ☐ Moderate ☐ Profuse

Sediment Odors ☑ Normal ☐ Sewage ☐ Petroleum ☐ Chemical ☐ Anaerobic ☐ Other (Specify) :

Smothering of Substrates

	None	Slight	Moderate	Severe
Sand Smothering:	☐	☑	☐	☐
Silt Smothering:	☐	☑	☐	☐
Algae Smothering:	☐	☑	☐	☐

SUBSTRATE TYPE

Assessment Tool: ☐ SCI ☑ RPS ☑ LVS ☐ LCI ☐ BioRecon

	% Coverage	INVERT # Times Sampled	PERI # Times Sampled
Woody Debris (Snags)	3.1		
Undercut Banks / Roots	1.9		
Leaf Packs or Mat			
Aquatic Vegetation			
Rock or Shell Rubble..			
Sand.....			
Mud / Muck / Silt			
Other			
Other			

ABUNDANCE

	Not Obs.	Rare	Common	Abundant
Periphyton:	☐	☐	☑	☐
Fish:	☐	☐	☑	☐
Aquatic Plants:	☐	☑	☐	☐
Iron/Sulfur Bacteria:	☑	☐	☐	☐

WATER QUALITY

	Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat (%)	Cond. (UMHO/CM)	Salinity (PPT)
Top :	0.3	20.4	8.29	11.42	126.9	609	0.30
Mid:							
Bottom							

SECCHI (M) 0.5 ☑ VOB

TOTAL DEPTH 0.5

Meter ID: Cherry

Water Odors Normal ☑ Petroleum ☐ Sewage ☐ Chemical ☐ Other ☐

Water Surface Oils Normal ☑ Sheen ☐ Globs ☐ Slick ☐ Other ☐

Water Sample Taken? ☑ Yes ☐ No

Sample Preserved? ☑ Yes ☐ No

Lot Number: see Water Datasheet

Color Tannic ☐ Green (Algae) ☐ Clear ☑ Other (Specify) ☐

Algae Sample Taken? ☐ Yes ☑ No

Sample Preserved? ☐ Yes ☐ No

Lot Number: _____ Exp: _____

Clarity Clear ☑ Slightly Turbid ☐ Turbid ☐ Opaque ☐

System Type: Stream ☑ Lake ☐ Wetland ☐ Estuary ☐ Other(Specify) ☐ _____

AMBIENT FIELD CONDITIONS / NOTES:

☑ The antecedent hydrologic conditions have been met to my best knowledge.

SAMPLING TEAM Poshwater, Ashton

SIGNATURE : [signature]

DATE : 3/10/20

Field ID/WIN **G3SW0089**

Site Name: Little Charlie Creek @ 664

DEP FORM FD 9000-32: LINEAR VEGETATION SURVEY FIELD

	County:	Waterbody: **See Sticker**
	Date: 3-10-20	Signature: [illegible]
Comments: $< 1 m^2$		Analyst: Tracy Ashton

Instructions: Note taxa growing in the water with a checkmark if present, "D" if dominant, and "C" if codominant (dominance only if 1 m^2 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. **BOLD is exotic invasive**

HERBACEOUS SPECIES	Meter Mark 0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	Specimen collected (check)
Alternanthera philoxeroides											
Bacopa caroliniana (Lemon)											
Bacopa monneri											
Bidens mitis											
Boehmeria cylindrica											
Centella asiatica											
Ceratophyllum demersum											
Chara sp.											
Cicuta maculata											
Cladium jamaicense											
Colocasia esculenta											
Commelina diffusa											
Commelina virginica											
Crinum americanum											
Cyperus ____________											
Diodia virginiana											
Eichhornia crassipes											
Eleocharis (wispy viviparous)											
Fontinalis sp. (Aquatic Moss)											
Fraxinus caroliniana											
Hydrilla verticillata											
Hydrocotle sp.											
Hygrophila polysperma											
Hymenachne amplexicaulis											
Hymenocallis											
Lachnanthes caroliniana											
Landoltia punctata											
Lemna sp.											
Limnophila sessiflora											
Ludwigia leptocarpa											
Ludwigia palustris											
Ludwigia peruviana											
Ludwigia repens											
Luziola fluitans											
If no Dominant or Co-Dominant were selected, indicate with "X"											
Indicate % cover macrophytes per section											
0-5% Macrophyte Coverage											
>5 and ≤10% Macrophyte Coverage											
>10 and ≤25% Macrophyte Coverage											
>25 and ≤50% Macrophyte Coverage											
> 50% Macrophyte Coverage											

HERBACEOUS SPECIES	Meter Mark 0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	Specimen collected (check)
Micranthemum glomeratum											
Micranthemum umbrosum											
Myriophyllum aquaticum											
Najas guadelupensis											
Nitella sp.											
Nuphar luteum											
Orontium aquaticum											
Panicum hemitomon											
Panicum repens											
Panicum rigidulum											
Pistia stratioides											
Polygonum glabra											
Polygonum hydropiperoides											
Polygonum punctatum											
Pontedaria cordata											
Potamogeton illinoensis											
Ruellia simplex (Mex Petunia)											
Sacciolepis striata											
Sagittaria kurziana											
Sagittaria lancifolia											
Sagittaria latifolia											
Salvinia minima											
Samolus parviflora											
Saururus cernuus											
Sparganium americanum											
Schoenoplectus americanus											
Sphagneticola trilobata(Wedelia)											
Typha sp.											
Urochloa mutica (Brachiaria)											
Vallisneria americana											
Zizania aquatica											

6351W0089 DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site:	County:	Date:	Investigators:
LITTLE CHARLIE CREEK 2664		3-10-20	

STORET Station Number: 6351W0089

Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover
0	1	N		
	2			
	3			
	4			
	5			90
	6			
	7			
	8			
	9			
10	1	N		
	2			
	3			
	4			
	5			90
	6			
	7			
	8			
	9			
20	1	N		
	2			
	3			
	4			
	5			90
	6			
	7			
	8			
	9			
30	1	N		
	2			
	3			
	4			
	5			90
	6			
	7			
	8			
	9			
40	1	N		
	2			
	3			
	4			
	5			90
	6			
	7			
	8			
	9			
50	1	N		
	2			
	3			
	4			
	5			96
	6			
	7			
	8			
	9			

Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover
60	1	N		
	2			
	3			
	4			96
	5			
	6			
	7			
	8			
	9			
70	1	N		
	2			
	3			
	4			
	5			60
	6			
	7			
	8			
	9			
80	1	N		
	2			
	3			
	4			
	5	6		80
	6	6		
	7	6		
	8			
	9			
90	1	N		
	2			
	3			
	4			
	5			92
	6			
	7			
	8			
	9			
100	1	N		
	2			
	3			
	4			
	5			94
	6			
	7			
	8			
	9			

Secchi depth	0.5
Estimated?	NO

# points ranked 4-6	~~22~~	3
total points assessed	99	
% points ranked 4-6	3	

Check accompanying data collected at same site/date.	
Algal mat sample	
Linear Veg Survey	L
Habitat Assessment	L
SCI/Biorecon	
Water sample	✓
RQ-2020-03-09-67	

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

*If you can see the secchi on the bottom, but you cannot see or reach surrounding substrate use "X"

0.21 m/s

2.5 Hi 4587

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%.