



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PLAN FIELD SHEET

January 2020

Meter Passed End
of Day CCV
Yes / No

WIN Station Name: MOCCASSIN BRANCH AT WINFORD MASTERS RD **Date:** 12/28/2021
WIN/Field ID: 20030557 **WBID:** 2540 **ENR:** **Latitude:** 29.7714722
County: ST. JOHNS **Org ID:** 21FLA **Longitude:** -81.475305
Receiving Body of Water: - **RQ:** 2021-09-20-18

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
☒	Kimberly Appleby	x		x		
☒	Brian Davis		x			
☒	Jeremy Parrish				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# DESI							
Photos: NO		Flow: FLOW		Tide:		Tide Times: High: Low:							
Biological Samples Collected: ☐ None ☒ HA ☒ SCI ☒ RPS ☐ Algae ID ☒ LVS ☐ LVI Other:													
SBIO ID Numbers:													
Notes: WEATHER: SUNNY													

Duplicate Sample

Time Zone: EST	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: 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 BD 12/28/2021 Migrate Data to WIN: Verify Data In WIN:
(Initials/Date) (Initials/Date) (Initials/Date)



RQ-2021-09-20-18

Customer: WQAP

Project ID: SMP

Collected By: Kimberly Appleby, Brian Davis

Field Report Prepared By: Kimberly Appleby

Sampling Agency: FDEP

Place Label Here

WIN ID/Field ID:



20030557

Location: MOCCASSIN BRANCH AT WINFORD
MASTERS RD

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)		
	1215 EST	7.15	74.9	17.5	6.79	0.3	0.587 ☒ VOB (S)	0.587	421.1	0.2		
12/28/2021												
	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 ☒ H2SO4*		☒ <2	1	A		
		Lot #	SA1105060		Exp:	4/30/22						
Metals (P-500ML)		☒ W-ICPMS ☒ W-ICP ☒ W-HARD				☒ Ice ☒ HNO3*		☐ <2	1	A		
		Lot #	NA1105100		Exp:	6/7/22						
Filtered Nutrients (P125ML)		☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter				☒ Ice			1	A		
		Filter Lot #	R1EB01329									
		Syringe Lot #										
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 #	9280918189tr		☒ Formalin			3	B		
Periphyton (PT-50ML)		☐ ALGAE-ID				☐ Ice						
Microbiology (Contract Lab Bottle)		☐ E Coli ☐ F Coli ☐ Enterococci				☐ Ice						
Molecular (QPCR-P-500ML)		☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-DG3				☐ Ice						
		☐ 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			4	A		
Phytoplankton/Periphyton		W-PCL-TQ-R										
						DTY-QN-C						
						PKD-QN-BV		☐ Ice				
Name: Kimberly Appleby Brian Davis					Signature:					Date: 12/28/2021		

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution

5610-53593

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

SAMPLING AGENCY:		STORET STATION NUMBER:	DATE (mm/dd/yy):	RECEIVING BODY OF WATER:
		20030557	12/28/12	LSJR
REMARKS:	COUNTY:	LOCATION:	FIELD ID/NAME:	
	St. Johns	Monsiee Muhl / MSV		

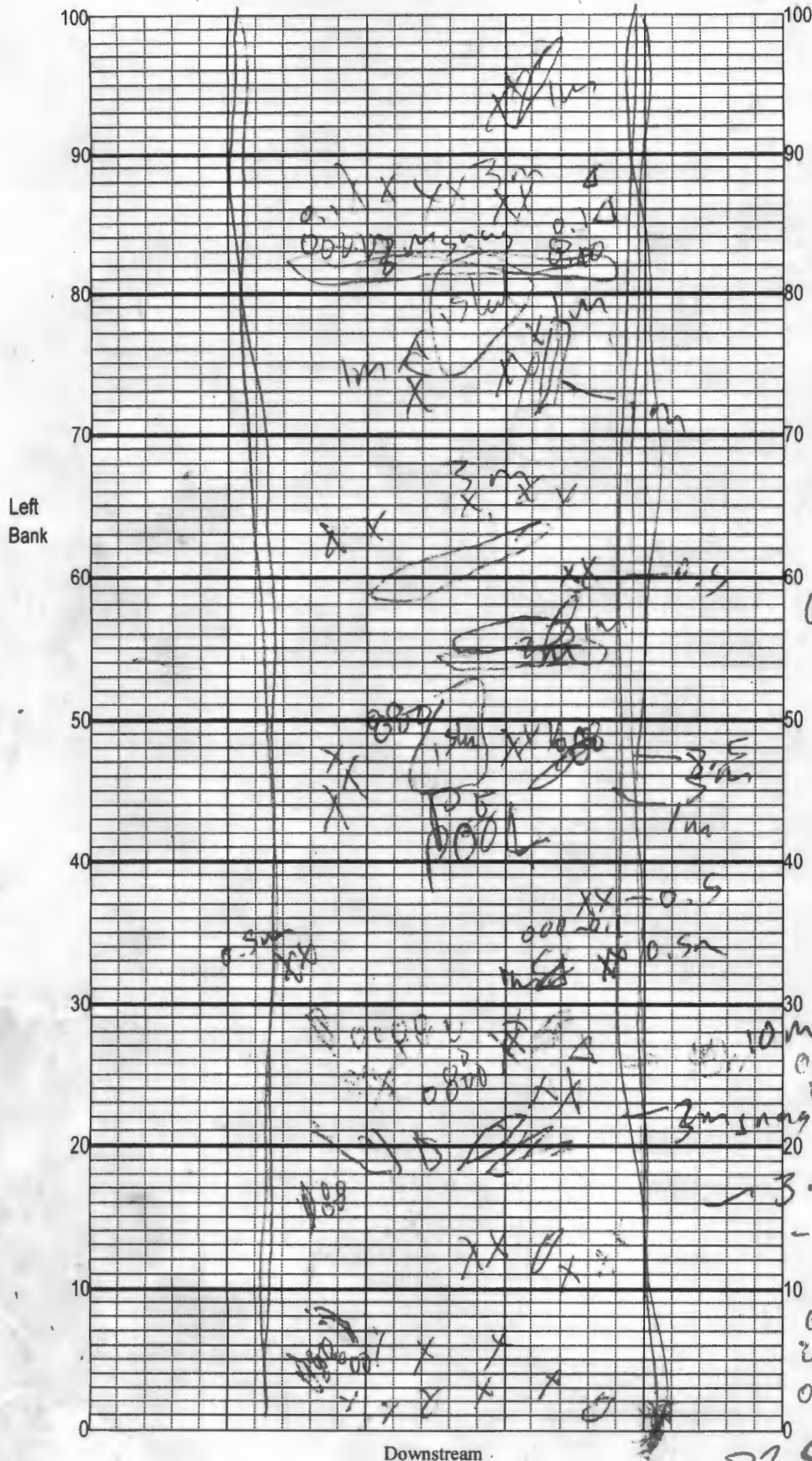
Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components	Four or more major productive habitats present [snags, tree roots, aquatic vegetation, leaf packs (partially decayed), rock]	Three major productive habitats present. Adequate habitat. Some substrates may be new fall (fresh 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>10</u>	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Substrate Availability <u>11</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>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 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>16</u> Primary Score <u>57</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>9</u> Left Bank <u>9</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>6</u> Left Bank <u>6</u> Secondary Score <u>70</u>	10 9	8 7 6	5 4	3 2 1

TOTAL SCORE

127

Date: 12/28/12	Analyst: Jay P. Davis	Signature: Jay P. Davis
----------------	-----------------------	-------------------------

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



Location: Morrisville watershed

Date: 12/20/01

Sampler: OP1 B0/K.A

100 m: Latitude _____	
Longitude _____	
0 m: Latitude _____	
Longitude _____	
Substrates: Code key, draw proportionate habitat abundance. %	
☒ Snags	<u>5</u>
☒ Roots/undercut banks	<u>10.5</u>
☒ Leaf Packs (or mats)	<u><1</u> not 2 sq. m
☐ Aquatic Macrophytes	<u><1</u>
☐	_____
☐	_____
☐ Pools	total # observed = _____ # range expected = _____
Average width <u>0.6</u> m, 25m	
Average depth <u>0.6</u> m	
Velocity measured at <u>10860</u> meter mark.	
WQ & chemistry taken at <u>20</u> 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:

- 1m snag
5m snag 5m + 3 + 1 + 1 + 5
A1 + 3 + 1 x 15m
0.1m snag 6m 2-20-10 + 3.5 3.5
20m root 5.5 = 40m
0.5m snag 10m - 0.2 + 0.2 + 0.1
to 0.1 + 0.2 1-2m
3m sec

3m wide

3.25 65 22

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

SAMPLE ID 17913 ORG ID 21FLA LATITUDE 29.771472
 COUNTY St. Johns STORET# 20030557 LONGITUDE -81.175305
 DATE 12/28/21 TIME 1215 SAMPLING AGENCY FDEP NE ROC
 SITE NAME Mollassin Branch at Winford Masters Rd
 FIELD ID/NAME _____ RECEIVING BODY OF WATER _____

RIPARIAN ZONE / STREAM FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category): Forest/Natural <u>10</u> Silviculture <u>0</u> Field/Pasture <u>0</u> Agricultural <u>85</u> Residential <u>5</u> Commercial <u>0</u> Industry <u>0</u> Other (Specify) <u>0</u>							Landscape Development Intensity Index (LDI) <u>0</u>
Local Watershed Erosion (select one): ☐ None ☒ Slight ☐ Moderate ☐ Heavy Local Watershed NPS Pollution: ☒ No evidence ☐ Slight ☐ Moderate ☐ Heavy				Typical Width (m) <u>3.25</u> Depth (m) <u>0.33</u> Velocity (m/sec) <u>0.33</u> Transect <u>0.6</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>5</u>		m/s <u>0.33</u> m/s <u>0.33</u> m/s <u>0.33</u>			
High Water Mark: <u>0.5</u> + <u>0.6</u> = <u>1.1</u> (m) (above present water level) (present depth) (above bed)		Artificially Impounded ☐ Yes ☒ No		m deep <u>0.6</u> m deep <u>0.6</u> m deep <u>0.6</u>			
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>% Coverage</th> <th>INVERT # Times Sampled</th> <th>PERI # Times Sampled</th> </tr> </thead> <tbody> <tr> <td>Woody Debris (Snags)</td> <td><u>5</u></td> <td><u>7</u></td> <td></td> </tr> <tr> <td>Undercut Banks / Roots</td> <td><u>10.5</u></td> <td><u>7</u></td> <td></td> </tr> <tr> <td>Leaf Packs or Mat</td> <td><u>>1</u></td> <td><u>2</u></td> <td></td> </tr> <tr> <td>Aquatic Vegetation</td> <td><u>>1</u></td> <td></td> <td></td> </tr> <tr> <td>Rock or Shell Rubble..</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Sand.....</td> <td><u>42</u></td> <td><u>1</u></td> <td></td> </tr> <tr> <td>Mud / Muck / Silt</td> <td><u>40</u></td> <td><u>3</u></td> <td></td> </tr> <tr> <td>Other</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Other.....</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				% Coverage	INVERT # Times Sampled	PERI # Times Sampled	Woody Debris (Snags)	<u>5</u>	<u>7</u>		Undercut Banks / Roots	<u>10.5</u>	<u>7</u>		Leaf Packs or Mat	<u>>1</u>	<u>2</u>		Aquatic Vegetation	<u>>1</u>			Rock or Shell Rubble..				Sand.....	<u>42</u>	<u>1</u>		Mud / Muck / Silt	<u>40</u>	<u>3</u>		Other				Other.....				<table border="1"> <thead> <tr> <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: <u>0.3</u></td> <td><u>17.5</u></td> <td><u>6.79</u></td> <td><u>7.15</u></td> <td><u>74.9</u></td> <td><u>421.1</u></td> <td><u>0.2</u></td> <td><u>0.587</u></td> </tr> <tr> <td>Mid:</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> </tr> <tr> <td colspan="7">Meter ID: <u>Desi</u></td> <td>TOTAL DEPTH <u>0.587</u></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>17.5</u>	<u>6.79</u>	<u>7.15</u>	<u>74.9</u>	<u>421.1</u>	<u>0.2</u>	<u>0.587</u>	Mid:							☒ VOB	Bottom:								Meter ID: <u>Desi</u>							TOTAL DEPTH <u>0.587</u>
	% Coverage	INVERT # Times Sampled	PERI # Times Sampled																																																																																		
Woody Debris (Snags)	<u>5</u>	<u>7</u>																																																																																			
Undercut Banks / Roots	<u>10.5</u>	<u>7</u>																																																																																			
Leaf Packs or Mat	<u>>1</u>	<u>2</u>																																																																																			
Aquatic Vegetation	<u>>1</u>																																																																																				
Rock or Shell Rubble..																																																																																					
Sand.....	<u>42</u>	<u>1</u>																																																																																			
Mud / Muck / Silt	<u>40</u>	<u>3</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>17.5</u>	<u>6.79</u>	<u>7.15</u>	<u>74.9</u>	<u>421.1</u>	<u>0.2</u>	<u>0.587</u>																																																																														
Mid:							☒ VOB																																																																														
Bottom:																																																																																					
Meter ID: <u>Desi</u>							TOTAL DEPTH <u>0.587</u>																																																																														
Water Odors Normal ☒ Petroleum ☐ Sewage ☐ Chemical ☐ Other ☐			Water Surface Oils Normal ☒ Sheen ☐ Globbs ☐ Slick ☐ Other ☐																																																																																		
Water Sample Taken? ☒ Yes ☐ No Sample Preserved? ☒ Yes ☐ No Lot Number: _____ Exp: _____			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 ☐																																																																																		
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>best place 29. 2/11 p lenty</u> ☒ The antecedent hydrologic conditions have been met to my best knowledge.																																																																																					

SAMPLING TEAM Kim Appleby, Jeremy Parrish, Brian Davis SIGNATURE: [Signature] DATE: 12-28-21

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: *Mollassin Branch at Winford Masters Rd*

County: *St. Johns*

Date: *12/28/21*

Investigators: *Kim Appleby + Brian Davis*

STORET Station Number: *20030557*

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	N		96	60	1	N		90
	2					2			
	3					3			
	4					4	X		
	5					5	X		
	6					6	N		
	7					7			
	8					8			
	9					9			
10	1	N		90	70	1	N		93
	2					2			
	3					3			
	4					4			
	5					5			
	6					6			
	7					7	X		
	8					8	N		
	9					9			
20	1	N		91	80	1	N		96
	2					2			
	3					3			
	4					4			
	5					5			
	6					6			
	7					7			
	8					8			
	9					9			
30	1	N		94	90	1	N		96
	2					2			
	3					3			
	4					4			
	5					5	X		
	6					6	X		
	7					7	N		
	8					8			
	9					9			
40	1	N		96	100	1	N		91
	2					2			
	3	X				3			
	4					4			
	5					5	X		
	6					6	N		
	7					7			
	8					8			
	9					9			
50	1	N		96		1	N		
	2	X				2			
	3	N				3			
	4					4			
	5					5			
	6					6			
	7					7			
	8					8			
	9					9			

Secchi depth *0.587*
Estimated? *N*

points ranked 4-6 *81*
total points assessed *99*
% points ranked 4-6 *1.2*

Check accompanying data collected at same site/date.
Algal mat sample *-*
Linear Veg Survey *✓*
Habitat Assessment *✓*
SCI/Biorecon *✓*
Water sample *✓*
RQ-*2021-09-20-18*

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%.

5455

Waterbody: McClellan Branch at winter of
Mason, PA Date: 12/28/2 County: St. Johns

Analyst: Brian Davis & Kim Appleby Signature: B - V -

Comments: $> 2m$ of vegetation within 100m stretch

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.

	Meter Mark										Specimen collected (check)		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	
HERBACEOUS SPECIES												HERBACEOUS SPECIES											
<i>Alternanthera philoxeroides</i>												<i>Micranthemum glomeratum</i>											
<i>Bacopa caroliniana</i>												<i>Micranthemum umbrosum</i>											
<i>Bacopa monnieri</i>												<i>Myriophyllum aquaticum</i>											
<i>Bidens mitis</i>												<i>Najas guadelupensis</i>											
<i>Boehmeria cylindrica</i>												<i>Nuphar luteum</i>											
<i>Centella asiatica</i>												<i>Orontium aquaticum</i>							✓	✓	✓		
<i>Ceratophyllum demersum</i>												<i>Panicum hemitomon</i>											
<i>Chara</i>												<i>Panicum repens</i>											
<i>Cicuta maculata</i>												<i>Panicum rigidulum</i>											
<i>Cladium jamaicense</i>				✓								<i>Pistia stratioides</i>											
<i>Colocasia esculenta</i>			✓		✓		✓	✓	✓	✓		<i>Polygonum glabra</i>											
<i>Commelina diffusa</i>	✓					✓	✓	✓	✓	✓		<i>Polygonum hydropiperoides</i>											
<i>Commelina virginica</i>												<i>Polygonum punctatum</i>											
<i>Crinum americanum</i>												<i>Pontederia cordata</i>											
<i>Diodia virginiana</i>												<i>Potamogeton illinoensis</i>											
<i>Eichhornia crassipes</i>												<i>Ruellia simplex</i>											
<i>Eleocharis (wispy viviparous)</i>												<i>Sagittaria latifolia</i>											
<i>Hydrilla verticillata</i>												<i>Sagittaria kurziana</i>											
<i>Hydrocotyle</i>			✓		✓		✓	✓	✓	✓		<i>Sagittaria lancifolia</i>											
<i>Hygrophila polysperma</i>												<i>Sagittaria latifolia</i>											
<i>Hymenocallis</i>												<i>Salvinia minima</i>											
<i>Lachnanthes caroliniana</i>												<i>Samolus parviflora</i>											
<i>Landoltia punctata</i>												<i>Saururus cernuus</i>											
<i>Lemna</i>												<i>Sparganium americanum</i>											
<i>Limnophila sessiflora</i>												<i>Typha</i>											
<i>Ludwigia leptocarpa</i>												<i>Vallisneria spiralis</i>											
<i>Ludwigia palustris</i>												<i>Zizania aquatica</i>											
<i>Ludwigia peruviana</i>												<i>Sambucus sp.</i>							✓		✓		
<i>Ludwigia repens</i>																							
<i>Luziola fluitans</i>																							
If no Dominant or Co-Dominant were selected, indicate with "X"																							
Indicate %																							