



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

STRATEGIC MONITORING PLAN FIELD SHEET

January 2022

Meter Passed End

of Day CCV

Yes / No

WIN Station Name: Locklin Lake Drain Date: 6/20/2022

WIN/Field ID: G4NW0103 WBID: 24AC ENR: Latitude: 30.62677

County: Santa Rosa Org ID: 21FLPNS Longitude: -87.04344

Receiving Body of Water: Blackwater River RQ: 2022-02-21-68

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
☒	Lauren McNally	x		x		
☒	Nathan Mulkey		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:			Tide:		Tide Times: High: Low:						
Biological Samples Collected: ☐ None ☒ HA ☒ SCI ☒ RPS ☐ Algae ID ☒ LVS ☐ LVI Other:												
SBIO ID Numbers: Visit ID 84693. HA ID 17614. RPS ID 9947. Macro ID 12205												
Notes: / SCI COLLECTION TIME: 1000												

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

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

LIMS EVENT ID: 2336171 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 (Initials/Date) Migrate Data to WIN: (Initials/Date) Verify Data In WIN: (Initials/Date)



RQ-2022-02-21-68
Customer: NW-DIST
Project ID: STRATEGIC MONITORING PLAN

Collected By: Lauren McNally, Nathan Mulkey
Field Report Prepared By: Lauren McNally
Sampling Agency: FDEP

Place Label Here WIN ID/Field ID: G4NW0103 Location: Locklin Lake Drain						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 _h)	
6/20/2022	1000 CEN	5.8	73.6	28	5.88	0.14	0.28 ☒ VOB (S)	0.28	44	0.02	
	CEN						Central Lab please use top row for login purposes				
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 #	1308030		Exp:	12/1/22					
Metals (P-500ML)		☒ W-ICPMS ☒ W-ICP ☒ W-HARD				☒ Ice ☐ HNO3*		☒ <2	1	A	
		Lot #	1105100		Exp:	6/7/22					
Filtered Nutrients (P125ML)		☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter				☒ Ice			1	A	
		Filter Lot #				Syringe Lot #					
BOD (BP-1L)		☐ OV-BODUNIN				☐ Ice					
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-F / W-TSS / TURBIDITY				☐ Ice					
Macroinvertebrates (PJ-2L)		☐ MI-FW-QLDC				☒ Formalin			2	B	
Periphyton (PT-50ML)		☐ ALGAE-ID				☐ Ice					
Microbiology (Contract Lab Bottle)		☒ E Coli ☐ Coli ☐ Enterococci				☒ Ice			1	A	
		☒ Contract Lab									
Molecular (QPCR-P-500ML)		☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-DG3				☐ Ice					
		☐ PCR-GULL2 ☐ PCR-GFD ☐									
Tracers (BG-500ML)		☐ W-E8321-DI ☐ W-E8321-MS				☐ Ice		MCAA Exp.			
Pesticides (BG-500ML) (BG-1L)		☒ W-E8321-DI		☒ WE8321-MS		☒ W-PSNP-TQ		☒ W-CT-Cl-R		3	A
		☐ W-PCL-TQ-R		☐ W-CARB-AA (5 ml of MCAA** Buffer Solution)		☐ W-TR-SQ-R					
		☐ W-PCB-TQ-R									
Phytoplankton/Periphyton				DTY-QN-C		PKD-QN-C		☐ Ice			
Name: Lauren McNally Nathan Mulkey				Signature:				Date: 06/20/2022			

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution

Site Name: Locklin Lake Drain

Date: 06/20/2022

Field ID G4NW0103 WIN-ID G4NW0103

Project: SMP / TMDL Studies

Visit ID 84693

RQ: 2022-02-21-68

RPS ID 9947

LIMS ID: 2336171

Macro ID 12205

WBID: 24AC

HA ID 17614

☒ SCI

☐ RPS/LVS Only

☒ Sample Site Created in SBIO

☒ Phys/Chem entered in SBIO

☒ HA entered in SBIO Initial FB, 7/20/22

☒ Date and Initial QA: SS, 7/26/22

☒ RPS entered in SBIO Initial FB, 7/20/22

☒ Date and Initial QA: SS, 7/26/22

☒ LVS entered in SBIO Initial FB, 7/20/22

☒ Date and Initial QA: SS, 7/26/22

☒ < 2 m² vegetation

☒ Plants getting verified

Date submitted: In House

☒ Plants verified

Date returned: In House

☒ RPS authorized in SBIO

☒ Date and Initial: FB, 8/01/22

☒ RPS score: _____

☐ Macro authorized in SBIO

☒ Date and Initial: FB, 8/01/22

☒ LVS Score: FLEPP: 0. Avg CofC: 3.0

☒ SCI complete: L. Homann, 8/30/22

SCI Score: 17

☒ Add SBIO-ID, HA-ID, RPS-ID, MACROPHYTE-ID and LIMS# to field sheet in database

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

SAMPLE ID 84693 ORG ID 21FLPNS LATITUDE 30.62588 30.62677
 COUNTY Santa Rosa WIN ID/STORET # G4NW0507 0103 LONGITUDE 87.03853 -87.04844
 DATE 6/20/22 TIME 10:00 CTZ SAMPLING AGENCY FL DEP - NWROC
 SITE NAME Collins Mill Creek upstream of Conecuh Street Looklin Lake Drain RQ- 2022-02-21-68
 FIELD ID/NAME G4NW0507 RECEIVING BODY OF WATER WBID 24AC Project: SMP

RIPARIAN ZONE / STREAM FEATURES

LIMS ID: 2336171

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)

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 f Right Bank : 18 f

Hydrologic Modification Score (per FT 3101)

High Water Mark: 1.5 m + 0.3 = 1.8
 (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%)

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

6.5 per meter m wide

0.16 m/s m/s m/s

0.3 m deep m deep m deep

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

	% Coverage	INVERT # Times Sampled	PERI # Times Sampled
Woody Debris (Snags)	<u>1</u>	<u>5</u>	<u></u>
Undercut Banks / Roots	<u>1.2</u>	<u>5</u>	<u></u>
Leaf Packs or Mat	<u>.5</u>	<u>2</u>	<u></u>
Aquatic Vegetation	<u>1.2</u>	<u>5</u>	<u></u>
Rock or Shell Rubble..	<u></u>	<u></u>	<u></u>
Sand	<u>96.1</u>	<u>3</u>	<u></u>
Mud / Muck / Silt	<u></u>	<u></u>	<u></u>
Other	<u></u>	<u></u>	<u></u>
Other	<u></u>	<u></u>	<u></u>

WATER QUALITY

	Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat (%)	Cond. (UMHO/CM)	Salinity (PPT)	SECCHI (M)
Top :	<u>0.14</u>	<u>28.0</u>	<u>5.88</u>	<u>5.80</u>	<u>73.6</u>	<u>44.0</u>	<u>0.02</u>	<u>0.28</u>
Mid:	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	☒ VOB
Bottom	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>	<u></u>

Meter ID: 154179 TOTAL DEPTH 0.28

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: _____

Algae Sample Taken? ☐ Yes ☒ No

Sample Preserved? ☐ Yes ☐ No

Lot Number: _____ Exp: _____

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

Clarity Clear ☒ Slightly Turbid ☐ Turbid ☐ Opaque ☐

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

ABUNDANCE

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

AMBIENT FIELD CONDITIONS / NOTES:

Locklin Lake impounded upstream of sampling reach.

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

SAMPLING TEAM: L. McNally N. Mulkey **SIGNATURE:** L. McNally **DATE:** 6/20/22

0-10 meter [A]	Habitat Area (M)	Left Bank	Right Bank
	Snag 0.5	Bankfull	Bankfull
0m width (m) 4.2	Root 0.8	-	-
10m width 4.2	Leaf	Slope	Slope
Avg. Depth 0.3	Veg	-	+
Max Depth 0.6	Gravel	Veg +	Veg +
Rip. Buff L +	Rock		
Rip. Buff R +			

50-60 meter [F]	Habitat Area (M)	Left Bank	Right Bank
	Snag .2	Bankfull	Bankfull
60m width 3.6	Root .2	-	-
Avg. Depth 0.3	Leaf .2	Slope	Slope
Max Depth 0.4	Veg	-	-
Rip. Buff L +	Gravel .8	Veg -	Veg -
Rip. Buff R +	Rock		

Station Name Collins Mill Creek
upstream of Conecuh Street

Storet: G4NW0507

Date 06/20/2022

0 meter (Dec Deg)

100 meter (Dec Deg)

10-20 meter [B]	Habitat Area (M)	Left Bank	Right Bank
	Snag 0.95	Bankfull	Bankfull
20m width 3.5	Root 0.4	-	+
Avg. Depth 0.7	Leaf	Slope -	Slope +
Max Depth 0.7	Veg	-	-
Rip. Buff L +	Gravel	Veg +	Veg +
Rip. Buff R +	Rock		

60-70 meter [G]	Habitat Area (M)	Left Bank	Right Bank
	Snag .50	Bankfull	Bankfull
70m width 3.2	Root .50	+	+
Avg. Depth 0.3	Leaf 0.21	Slope -	Slope +
Max Depth 0.4	Veg	-	-
Rip. Buff L +	Gravel	Veg +	Veg +
Rip. Buff R +	Rock		

Water Quality Measured at

Stream Velocity and location.
0.16 m/s 0 meter mark

Number of Pools & Location

High Water:

Silt smothering @

Sand Smothering @

Algae Smothering @

20-30 meter [C]	Habitat Area (M)	Left Bank	Right Bank
	Snag 0.2	Bankfull	Bankfull
30m width 3.0	Root 0.3	-	+
Avg. Depth 0.1	Leaf 0.2	Slope +	Slope -
Max Depth 0.8	Veg	+	-
Rip. Buff L +	Gravel	Veg -	Veg -
Rip. Buff R +	Rock		

70-80 meter [H]	Habitat Area (M)	Left Bank	Right Bank
	Snag .75	Bankfull	Bankfull
80m width 3.0	Root .3	+	-
Avg. Depth 0.5	Leaf 0.2	Slope +	Slope -
Max Depth 0.7	Veg 2m	+	-
Rip. Buff L +	Gravel 2	Veg -	Veg +
Rip. Buff R +	Rock		

Degraded Banks @

Fe/Sulfur Bact. @

325

30-40 meter [D]	Habitat Area (M)	Left Bank	Right Bank
	Snag 0.4	Bankfull	Bankfull
40m width 3.5	Root 0.4	-	-
Avg. Depth 0.3	Leaf 0.2	Slope -	Slope -
Max Depth 0.8	Veg 2	-	-
Rip. Buff L +	Gravel 2	Veg +	Veg +
Rip. Buff R +	Rock		

80-90 meter [I]	Habitat Area (M)	Left Bank	Right Bank
	Snag .3	Bankfull	Bankfull
90m width 4.0	Root .3	-	-
Avg. Depth 0.2	Leaf	Slope +	Slope -
Max Depth	Veg	+	-
Rip. Buff L +	Gravel	Veg +	Veg +
Rip. Buff R +	Rock		

Total Habitat	Sq. Meters	Percent
Snags	3.55	1
Roots	3.8	1.2
Leaf	1.18	.5
Veg	4	1.2
Rock		
Gravel	5.8	
Sand		
Other		
Sum 1° Habitat		3.9

40 - 50 meter [E]	Habitat Area (M)	Left Bank	Right Bank
	Snag .24	Bankfull	Bankfull
50m width 3.3	Root .24	+	+
Avg. Depth 0.3	Leaf .2	Slope -	Slope +
Max Depth 0.4	Veg	-	-
Rip. Buff L +	Gravel	Veg +	Veg +
Rip. Buff R +	Rock		

90 - 100 meter [J]	Habitat Area (M)	Left Bank	Right Bank
	Snag .3	Bankfull	Bankfull
100m width 4.5	Root .2	-	-
Avg. Depth .2	Leaf .08	Slope -	Slope +
Max Depth	Veg	-	-
Rip. Buff L +	Gravel 1	Veg +	Veg +
Rip. Buff R +	Rock		

Avg. Depth	Max. Depth	Avg. Width
.38	.8	3.6

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.

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

SAMPLING AGENCY: DEAR-NWROC. 21FLPNS		STORET STATION NUMBER: G4NW0507-LM G4NW0103	DATE (MM/DD/YY): 6/20/22	RECEIVING BODY OF WATER: Blackwater River
REMARKS: WBID 24AC	COUNTY: Santa Rosa	LOCATION: Locklin Lake Drain Collins Mill Creek upstream of Conceh Street		FIELD ID/NAME: G4NW0103 G4NW0507-LM

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>14</u>	20 19 18 17 16	15 <u>14</u> 13 12 11	10 9 8 7 6	5 4 3 2 1
Substrate Availability <u>LM</u> <u>7</u> <u>3</u>	Greater than 30% major productive habitat present at site 20 19 18 <u>17</u> 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 <u>3</u> 2 1
Water Velocity <u>13</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 <u>13</u> 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>9</u> ----- Primary Score <u>39</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 <u>9</u> 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 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>LM</u> <u>7</u>	20 19 18 17 16	15 <u>14</u> 13 12 11	10 9 8 <u>7</u> 6	5 4 3 2 1
Bank Stability Right Bank <u>4.5</u> Left Bank <u>4</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 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. <u>5</u> 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>10</u> Left Bank <u>10</u>	Width of vegetation greater than 18 m <u>10</u> 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 <u>9</u> Left Bank <u>2</u> ----- Secondary Score <u>54</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. 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

14 93 TOTAL SCORE

Date: <u>6/20/22</u>	Analyst: <u>L. McNally</u>	Signature: <u>L. McNally</u>
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SBIO ID: 84693
62-160.800, F.A.C.

HA ID: 17614

Revision Date: March 1, 2014

(Horizontal scale is double vertical scale, draw proportionately).

Left
Bank

100 m Long

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: Locklin Lake Drain
Collins Mill Creek upstream of Conecuh Street

County: Santa Rosa

Date: 6/24/22

Investigators:

STORET Station Number:

G4NW0507-CHNW0103

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

Secchi depth VOB 0.28
 Estimated? No

points ranked 4-6 0
 total points assessed 90
 % points ranked 4-6 0

Check accompanying data collected at same site/date.

Algal mat sample
 Linear Veg Survey X
 Habitat Assessment X
 SCI/Biorecon X
 Water sample X

RQ-2022-02-21-48

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. 84693

RPS ID. 9947

30. 62704
 87. 04432

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%.

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

G4 NW 0103

Storet Number: ~~G4NW0507~~

Signature: S. McRally

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.

SBD TO 84693	Meter Mark										Specimen collected (check)	Macro TO	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											
Alternanthera philoxeroides												Micranthemum glomeratum											
Bacopa caroliniana												Micranthemum umbrosum											
Bacopa monneri												Myriophyllum aquaticum											
Bidens mitis												Najas guadelupensis											
Boehmeria cylindrica												Nuphar luteum											
Centella asiatica												Orontium aquaticum											
Ceratophyllum demersum												Panicum hemitomom											
Chara												Panicum repens											
Cicuta maculata												Panicum rigidulum											
Cladium jamaicense												Pistia stratioides											
Colocasia esculenta												Polygonum glabra											
Commelina diffusa												Polygonum hydropiperoides											
Commelina virginica												Polygonum punctatum											
Crinum americanum												Pontedaria cordata											
Diodia virginiana												Potamogeton illinoensis											
Eichhornia crassipes												Ruellia simplex											
Eleocharis (wispy viviparous)				X				X				Sacciolepis striata											
Hydrilla verticillata												Sagittaria kurziana											
Hydrocotyle												Sagittaria lancifolia											
Hygrophila polysperma												Sagittaria latifolia											
Hymenocallis												Salvinia minima											
Lachnanthes caroliniana												Samolus parviflora											
Landoltia punctata												Saururus cernuus											
Lemna												Sparganium americanum											
Limnophila sessiflora												Typha											
Ludwigia leptocarpa												Vallisneria americana											
Ludwigia palustris												Zizania aquatica											
Ludwigia peruviana																							
Ludwigia repens																							
Luziola fluitans																							
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