

**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION**

STRATEGIC MONITORING PLAN Field Sheet

July 2022

Meter
Passed End
of Day CCV

Yes / No

WIN Station Name:		Pringle Branch below McDaniel Rd				Sample Date:		10/30/2023	
WIN / Field ID:	G4NW0043	ORG ID:	21FLPNS	ENR:		Latitude:	30.90932		
County:	Santa Rosa	WBID:	122	STREAM		Longitude:	-86.96723		
Receiving Body of Water:		Big Coldwater Creek				RQ-	2023-08-14-23		

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Frank Butera					
Nathan Mulkey					

Sampling Equipment			
x	Sample Container		Carboy
	Dipper		Van Dorn
x	Syringe		Pole
Syringe Lot# 1363514		Filter Lot# 17460495	
Secchi Equipment ID:		Secchi -1	
Collection Method			
x	Wading		Canoe/Kayak
	From Shore		Electric Motor
			Gasoline Motor
Depth Measured With		Meter	

Water Level:	Low
Flow:	Flowing
Matrix:	Fresh
Tide Stage:	
High Tide:	
Low Tide:	
Photos:	Yes
Meter ID:	155077 (ProDSS)
Depth Gauge ID:	depth_gauge

Time Zone	Time	Total Depth (m)	Sample Depth (m)	DO (mg/L)	DO (%SAT)	Temp. (°C)	pH	Secchi Disk (m)	Sp COND (µmhos/cm)	Salinity (PPT _h)
CEN	950	0.2	0.1	7.72	82.8	18.7	4.4	0.2	24.6	0.01
								VOB (s)		

Biological Samples Collected:

HA LVS RPS SCI

SBIO Visit ID: 88052

HA ID: 18656

RPS ID: 10174

Macrophyte ID: N/A

LIMS Sample ID

Benth ID: 45670

In The Macrophyte Module: 2447966

Parameter Suite	Parameter Methods (LIMS Test Codes)			Preservation			
				Type	Lot#	Expiration Date	pH Check
Microbiology	E. coli	Contract Lab	UWF	ICE			
Chlorophyll	CHLSUITE-W			ICE			
Physical/Aggregate Nutrients	ALKALINITY, TURBIDITY, W-F, W-TSS			ICE			
	W-CL-IC, W-COLOR, W-SO4-IC, W-TDS			ICE			
Filtered Nutrients	W-PO4-F	Field Filtered 0.45 µm Filter		ICE	Syring Lot#:1363514; Filter Lot#:17460495		
Acid Preserved Nutrients	W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP			ICE	H2SO4*	3013020	01/24/2024
Metals	W-ICPMS	W-ICP	W-HARD	ICE	HNO3**	3123030	05/10/2024
Organics (LC)	W-E8321-DI	W-E8321-MS					
Macroinvertebrates	MI-FW-QLDC			Formalin	1234		
Organics (GC)	W-PSNP-TQ			Ice	*2.0 ml of H2SO4 Used Unless Noted Otherwise **2.0 ml of HNO3 Used Unless Noted Otherwise		
Molecular							
Periphyton							
Phytoplankton							
BOD							
DOC							
Other(s)					SyringLot#	FilterLot#	
Field Comments:	/ SCI Collection Time: 1130						
Comments on COC:	Microbiology sample(s) submitted to contract laboratory.						
Relinquish Date:	10/30/2023	Signature:					

LIMS EVENT ID: _____ WIN Import ID: _____

Enter Field Parameters, Verify Station ID In LIMS DMT: _____

(Initials/Date)

QC Station ID, Field Parameters In LIMS DMT: _____

(Initials/Date)

Save Field Sheets on Network: _____

(Initials/Date)

Migrate Data to WIN: _____

(Initials/Date)

Site Name Pringle Branch below McDaniel Rd.

Date: 10/30/2023

WIN ID G4NW0043 Field ID G4NW0043

Project: SMP / TMDL Studies

Visit ID 88052

RQ: 2023-08-14-23

RPS ID 10174

LIMS ID: 2447966

Macro ID N/A

WBID: 122

HA ID 88052-18656

☒ SCI

☐ RPS/LVS Only

☒ Sample Site Created in SBIO

☒ Phys/Chem in SBIO Initial FB, 11-02-23

☒ Date and Initial QA: 11/6/2023 SS

☒ HA entered in SBIO Initial FB, 11-02-23

☒ Date and Initial QA: 1 SS

☒ RPS entered in SBIO Initial FB, 11-02-23

☒ Date and Initial QA: L SS

☐ Phys/Chem in SBIO Initial _____

☐ Date and Initial QA: _____

☐ Macro in SBIO

☐ Macrogenotyping verified Date submitted: _____

☐ Macro in SBIO Date submitted: _____

☒ RPS authorized in SBIO

☒ Date and Initial: 11/6/23 FB

☒ RPS score: 8.08

☐ Macro authorized in SBIO

☐ Date and Initial: _____

☐ LVS Score: _____

☐ SCI complete: V. McGee 01/24/2024

SCI Score: 74

☒ 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 88052 ORG ID 21FLPNS LATITUDE N 30.90932
 COUNTY Santa Rosa WIN ID/STORET # 24NW0043 LONGITUDE W 86.96723
 DATE 10/30/2023 TIME 9:50 CTZ SAMPLING AGENCY FL DEP - NWROC
 SITE NAME Pringle Br. below McDaniel Rd RQ-2023-08-14-23
 FIELD ID/NAME 64W0043 RECEIVING BODY OF WATER: E. Fl. Big Old water WBID 122 Project: SMP

RIPARIAN ZONE / STREAM FEATURES

WBID: 122

LIMS ID: 2447966

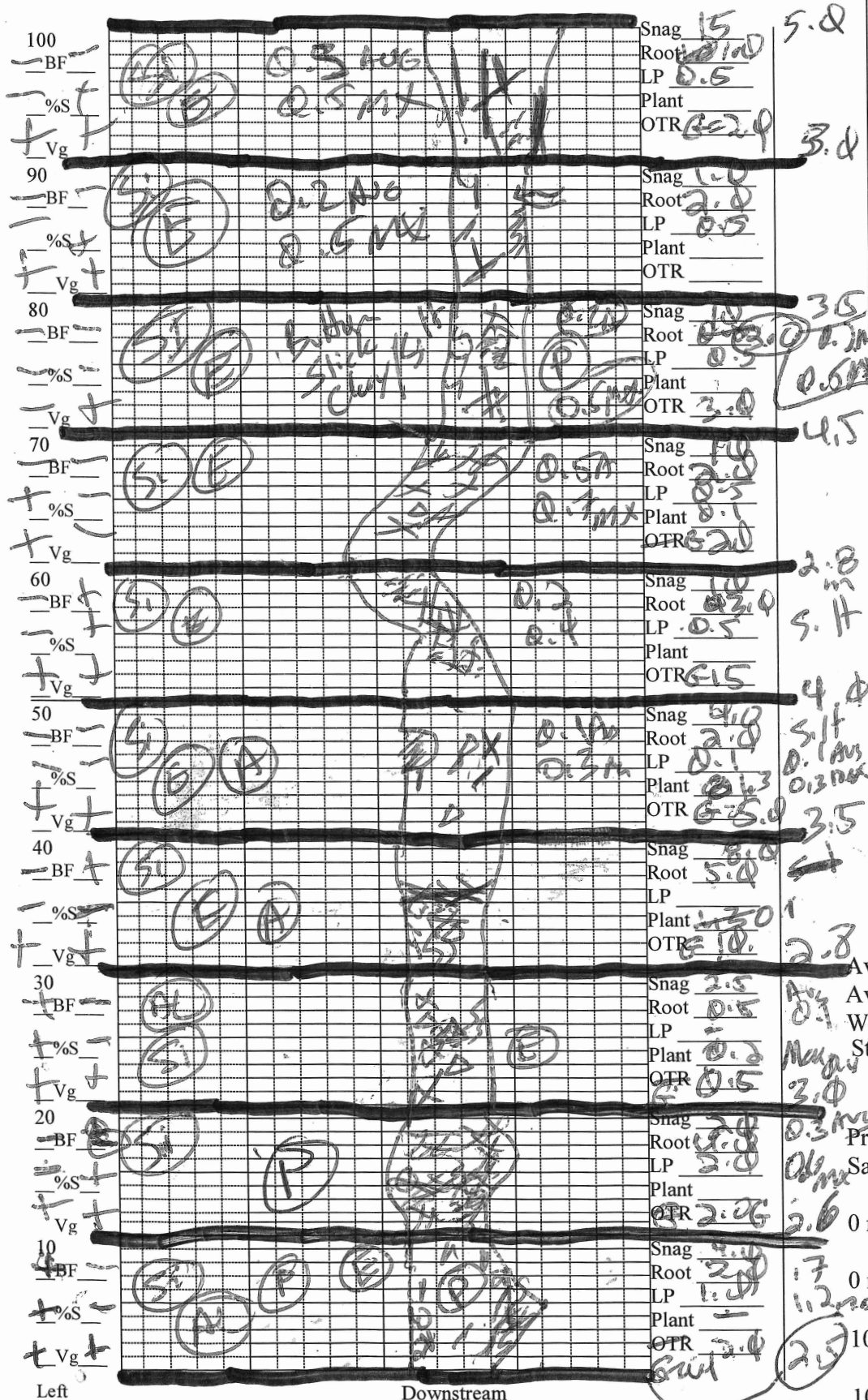
PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category): Forest/Natural ☒ Silviculture ☒ Field/Pasture ☐ Agricultural ☐ Residential ☐ Commercial ☐ Industry ☐ Other (Specify) ☐							Landscape Development Intensity Index (LDI) <u>N/A</u>
Local Watershed Erosion (select one): ☐ None ☐ Slight ☐ Moderate ☒ Heavy Local Watershed NPS Pollution: ☐ No evidence ☒ Slight ☐ Moderate ☐ Heavy							Typical Width (m) Depth (m)/Velocity (m/sec) Transect <u>60m</u> <u>4.5</u> m wide
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank: <u>716</u> Right Bank: <u>716</u>				Hydrologic Modification Score (per FT 3101) <u>1-2</u>		m/s <u>0.33</u> m/s ☐ m/s ☐	
High Water Mark: <u>1.6</u> + <u>1.2</u> = <u>2.8</u> (m) (above present water level) (present depth) (above bed)				Artificially Impounded ☐ Yes ☒ No		m deep <u>0.1</u> m deep ☐ m deep ☐	
Artificially ☒ No ☐ Mostly recovered, more sinuous Channelized: ☐ Some recovery ☐ Recent, severe			Canopy Cover % <u>86%</u> ☐ 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>24.9</u></td> <td><u>5</u></td> <td></td> </tr> <tr> <td>Undercut Banks / Roots</td> <td><u>7.2</u></td> <td><u>5</u></td> <td></td> </tr> <tr> <td>Leaf Packs or Mat</td> <td><u>1.6</u></td> <td><u>5</u></td> <td></td> </tr> <tr> <td>Aquatic Vegetation</td> <td><u>0.5</u></td> <td><u>1</u></td> <td></td> </tr> <tr> <td>Rock or Shell Rubble</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Sand</td> <td><u>46.3</u></td> <td><u>2</u></td> <td></td> </tr> <tr> <td>Mud / Muck / Silt</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Other <u>Gravel</u></td> <td><u>17.5</u></td> <td><u>2</u></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>24.9</u>	<u>5</u>		Undercut Banks / Roots	<u>7.2</u>	<u>5</u>		Leaf Packs or Mat	<u>1.6</u>	<u>5</u>		Aquatic Vegetation	<u>0.5</u>	<u>1</u>		Rock or Shell Rubble				Sand	<u>46.3</u>	<u>2</u>		Mud / Muck / Silt				Other <u>Gravel</u>	<u>17.5</u>	<u>2</u>		Other				Depth (M) Temp. (°C) pH (SU) D.O. (MG/L) D.O. Sat (%) Cond. (UMHO/CM) Salinity (PPT) SECCHI (M) Top: <u>0.1</u> <u>18.7</u> <u>4.4</u> <u>7.72</u> <u>82.8</u> <u>24.6</u> <u>0.01</u> <u>0.2</u> Mid: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☒ VOB Bottom: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ Meter ID: <u>155077</u> <u>060m</u> <u>0.2</u>		
	% Coverage	INVERT # Times Sampled	PERI # Times Sampled																																										
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Other																																													
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			System Type: Stream ☒ Lake ☐ Wetland ☐ Estuary ☐ Other (Specify) ☐																																										
Not Obs. Rare Common Abundant Periphyton: ☐ ☐ ☒ ☒ Fish: ☐ ☐ ☒ ☐ Aquatic Plants: ☒ ☒ ☒ ☐ Iron/Sulfur Bacteria: ☒ ☐ ☐ ☐			AMBIENT FIELD CONDITIONS / NOTES: <u>Very low flow top 40m.</u> ☒ The antecedent hydrologic conditions have been met to my best knowledge.																																										
SAMPLING TEAM: <u>Nathan Mulkey, Frank Butler</u>			SIGNATURE: <u>[Signature]</u>		DATE: <u>10/30/2023</u>																																								

Stream/River Habitat Sketch Sheet, Form FD 9000-4 (June 1, 2001)

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



WIN ID G4NW0043

Substrates: Code key,
draw proportionate habitat
abundance.

☒ Snags $\frac{84.5}{340} = 24.9\%$

☒ Roots/undercut banks
 $\frac{24.5}{340} = 7.2\%$

☒ Leaf Packs (or mats)
 $\frac{5.6}{340} = 1.6\%$

☒ Macrophytes
 $\frac{1.7}{340} = 0.5\%$

☒ Gravel $\frac{59.5}{340} = 17.5\%$

☒ BAR

Velocity: 0.33
Note where velocity
measures were taken. 60m

Habitat Smothering:
Note areas (on map) where
sand or silt is something
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.

Average width 3.4 m
Average depth 0.3 m
WQ & chemistry taken @ 60m
Station Name:

Project: SMP
Sampled By/Date: 10/30/2022
0 m Latt. 30.90921
0 m Long. 86.96680
100 m Latt. 30.90914
100 m Long. 86.96754

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

SAMPLING AGENCY: DEAR-NWROC. 21FLPNS <i>Bass River</i>		STORET STATION NUMBER: <i>G4NW0043</i>	DATE (MM/DD/YY): <i>10/30/23</i>	RECEIVING BODY OF WATER: <i>E. FL. Coll. Water Rk</i>
REMARKS: WBID <i>122</i>	COUNTY: <i>Santa Rosa</i>	LOCATION:	FIELD ID/NAME: <i>G4NW0043</i>	

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 <i>14</i>	20 19 18 17 16	15 <i>14</i> 13 12 11	10 9 8 7 6	5 4 3 2 1
Substrate Availability <i>14</i>	Greater than 30% major productive habitat present at site 20 19 18 17 16	16% to 30% major productive habitat, by aerial extent 15 <i>14</i> 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 <i>19 20</i>	Max. observed at typical transect: > 0.25 m/sec. But < 1 m/sec ≥0.33 0.31 0.29 0.27 >0.25 <i>20 19 18 17 16</i>	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 <i>15</i> ----- Primary Score <i>63</i>	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. <i>15</i> 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 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 <i>20</i>	<i>20</i> 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 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 root zone with raw, eroded areas.
Right Bank <i>5</i> Left Bank <i>5</i>	10 9	8 7 6	<i>5</i> 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 <i>10</i> Left Bank <i>10</i>	<i>10</i> 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 <i>10</i> Left Bank <i>10</i> ----- Secondary Score <i>74</i>	<i>10</i> 9	8 7 6	5 4	3 2 1

133

TOTAL SCORE

Date: <i>10/30/2023</i>	Analyst: <i>F. Butler</i>	Signature: <i>[Signature]</i>
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SBIO ID: *88052*
62-160.800, F.A.C.

HA ID: *18656*

Revision Date: March 1, 2014

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: Pringle Br. below McDaniel Rd County: Sevier Date: 10/30/23 Investigators: F. Johnson

STORET Station Number: G4NW0043

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	No	96	60	1	N	No	60
	2	N	No						
	3	N	No						
	4	N	No						
	5	N	No						
	6	N	No						
	7	N	No						
	8	N	No						
	9	N	No						
10	1	N	No	96	70	1	N	No	92
	2	N	No						
	3	N	No						
	4	N	No						
	5	N	No						
	6	N	No						
	7	N	No						
	8	N	No						
	9	N	No						
20	1	N	No	88	80	1	N	No	74
	2	N	No						
	3	N	No						
	4	N	No						
	5	N	No						
	6	N	No						
	7	N	No						
	8	N	No						
	9	N	No						
30	1	N	No	96	90	1	N	No	96
	2	N	No						
	3	N	No						
	4	N	No						
	5	N	No						
	6	N	No						
	7	N	No						
	8	N	No						
	9	N	No						
40	1	N	No	92	100	1	N	No	70
	2	N	No						
	3	N	No						
	4	N	No						
	5	N	No						
	6	N	No						
	7	N	No						
	8	N	No						
	9	N	No						
50	1	N	No	72		1	N	No	
	2	N	No						
	3	N	No						
	4	N	No						
	5	N	No						
	6	N	No						
	7	N	No						
	8	N	No						
	9	N	No						

Secchi depth 0.2
Estimated? N

points ranked 4-6 8
total points assessed 99
% points ranked 4-6 8%

Check accompanying data collected at same site/date.
Algal mat sample ☐
Linear Veg Survey ☒
Habitat Assessment ☒
SCV Biorecon ☒
Water sample ☒
RQ-2023-07-14-23

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. 88052

RPS ID. 10174

RPS Score 8.08

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 densimeter 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%.

Waterbody: Pringle Cr. below McD. Rd.	Date: 10/30/2023	County: Santa Rosa	Storet Number: 64NW0042
Analyst: F. Butler	Signature:		
Comments: $< 2m^2$ Vascular - LWS not appropriate/undesired			

[illegible]

VPDB ID N/A

Pringle Branch below McDaniel Rd.

Field ID: G4NW0043

WIN ID: G4NW0043

Project: SMP

Sample Date: 10/30/2023

Sampled by: N. Mulkey, F. Butera

Stream Reach Map

Habitat Type

Meter Mark	Snag	Root	Leaf Pack	Veg.	Gravel	Sand
0-10	4.0	2.0	1.0		2.0	
10-20	20.0	4.0	2.0		2.0	
20-30	2.5	0.5		0.20	0.5	
30-40	8.0	5.0		0.10	10.0	
40-50	4.0	2.0	0.1	1.30	5.0	
50-60	10.0	3.0	0.5		15.0	
60-70	10.0	2.0	0.5	0.10	20.0	
70-80	10.0	3.0	0.5		3.0	
80-90	1.0	2.0	0.5			
90-100	15.0	1.0	0.5		2.0	
Total	84.5	24.5	5.6	1.70	59.5	164.2
Percent	24.9	7.2	1.6	0.5	17.5	48.3
Primary Habitat Percent	34.2					

HA Scoring

Parameter	Score	Max		
Substrate Diversity	14	20	63	Primary Score
Substrate Availabilty	14	20		
Water Velocity	20	20		
Habitat Smothering	15	20		
Artificial Channelization	20	20	70	Secondary Score
Bank Stability (Right)	5	10		
Bank Stability (Left)	5	10		
Riparian Buffer Zone (R)	10	10		
Rip. Buffer Zone (Left)	10	10		
Rip. Veg. Qual. (Right)	10	10		
Rip. Veg. Qual. (Left)	10	10		
Total	133	160	133	
Total Percent	83.1	100.0	83.1	

Stream Size	Meters	Depth		Riparian Buffer Zone (M)	
Meter Mark	Width	Avg. Depth	Max Depth	Right	Left
0	2.5			> 18	> 18
10	2.6	0.7	1.2	> 18	> 18
20	3.0	0.3	0.6	> 18	> 18
30	2.8	0.1	0.4	> 18	> 18
40	3.5	0.2	0.4	> 18	> 18
50	4.0	0.1	0.3	> 18	> 18
60	2.8	0.2	0.4	> 18	> 18
70	4.5	0.5	0.7	> 18	> 18
80	3.5	0.2	0.5	> 18	> 18
90	3.0	0.2	0.5	> 18	> 18
100	5.0	0.3	0.5	> 18	> 18
AVG.	3.4	0.3	3 pools	> 18	> 18
Pool Frequency. 100-(Avg. Width*12)				60 meters	
Expected Number of Pools				1.67	

Bank Stability

Meter Mark	Right Bank	Left Bank
0-10	1	3
10-20	2	1
20-30	1	3
30-40	2	1
40-50	1	1
50-60	3	1
60-70	0	2
70-80	1	0
80-90	2	1
90-100	2	1
Avg	1.5	1.4

Canopy Cover	
Location (m)	Score
0-10	96
10-20	96
20-30	88
30-40	96
40-50	92
50-60	72
50-60	66
60-70	92
70-80	74
80-90	96
90-100	79
Average	86
Percent	90

G4NW0043 Pringle Br. Location

