

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Boldly "X" this box if there are qualified data on this page.

Meter ID:

155077

RQ:

2021-02-22-14

Project:

SMP RIO

- Notes: (1) Always wait for meter to stabilize before recording any readings.
 (2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).
 (3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

2/9/21

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp °C	Baro-meter mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	NM	3/31/21	0710	22.4	763	8.7	8.70	99.1			P / F	L / F
ICV	↓	↓	0712	↓	↓	↓	8.57	8.3			P / F	L / F
CCV	↓	↓	1315	21.1	763	8.9	9.00	100.7			P / F	L / F
CCV											P / F	L / F

DO Acceptance criteria from Table ± 0.3 mg/L.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

Optical: DO gain range 0.85 to 1.15 (Pro-DSS 0.75 to 1.50); DO charge N/A. Steady-state & Galvanic Sensors: DO Gain & Charge N/A.

Spec. Cond. FT 1200	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard μ mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	NM	3/31/21	0714	200124B	8/21	1000	1000	P / F	L / F
ICV	↓	↓	0716	201013A	10/21	100	104	P / F	L / F
CCV	↓	↓	1317	↓	↓	↓	104	P / F	L / F
CCV								P / F	L / F

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	NM	3/31/21	0720	202114	5/22	7.	22.4	7.0		P / F	L / F
Calibr.	↓	↓	0822	202120	6/22	4.	↓	4.0		P / F	L / F
Calibr.	↓	↓	0824	201473	5/22	10.	↓	10.0		P / F	L / F
ICV	↓	↓	0726	202120	6/22	4.0	↓	3.91	143.90	P / F	L / F
CCV	↓	↓	1320	202114	5/22	7.0	21.7	7.01	31.40	P / F	L / F
CCV										P / F	L / F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50 ;

mV pH 4 Range $+180 \pm 50$;

mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 _____, slope from 4 to 7 _____ (both must be between 165 and 180 mV)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES ☒ NO ☐ NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification: 2/9/21

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: _____; Date of last verification: _____

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value, meters	Pass / Fail	Lab / Field
Pressure mode in air	NM	3/31/21	0730	0.00	0.00	P / F	L / F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

REMARKS:

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
CHAIN OF CUSTODY FORM

Date: 3/31/2021
Customer: NW-DIST
RQ: RQ-2021-02-22-14

Collected By: Nathan Mulkey, Myranda Butler
Sampling Agency: FDEP
Project ID: SMP

PLEASE RETURN THE ORIGINAL OF THIS FORM WITH SAMPLE SUBMITTAL
FORMS AND THE COOLER PACKING WORKSHEET TO THE LAB

Number of Coolers Shipped: ~~2~~ 1
MB 3/31/21

Delivery Method: UPS

FIELD ID (Labels) submitted under this RQ for this collection date.

Site Location	Field ID/WIN ID
Collins Mill Creek upstream of Conecuh Street	 G4NW0507

RELINQUISHED BY(SIGNATURE): *Myranda Butler*

DATE/TIME: 3/31/2021 13:00ct

THIS SECTION TO BE COMPLETED BY LABORATORY

Rec'd/Inspected By:

Rec'd/Inspected Date:



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2020

Meter Passed End
of Day CCV
☒ Yes / ☐ No

WIN Station Name: Collins Mill Creek upstream of Conecuh Street **Date:** 3/31/2021
WIN/Field ID: G4NW0507 **WBID:** 24AC **ENR:** - **Latitude:** 30.6259
County: SANTA ROSA **Org ID:** 21FLPNS **Longitude:** -87.0385
Receiving Body of Water: Pensacola **RQ:** 2021-02-22-14

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
☒	Nathan Mulkey		x		x	x
☒	Myranda Butler	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# 155077 (PRODSS)							
Photos: YES		Flow: FLOW		Tide:		Tide Times: High: Low:							
Biological Samples Collected: ☐ None ☒ HA ☒ SCI ☒ RPS ☐ Algae ID ☒ LVS ☐ LVI Other:													
SBIO ID Numbers: SVIO Visit ID 81993. HA ID 16792. RPS ID 9687													
Notes:													

Duplicate Sample

Time Zone: CEN	Time:	Field ID: N/A	(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 **Migrate Data to WIN:** **Verify Data In WIN:**
(Initials/Date) (Initials/Date) (Initials/Date)



RQ-2021-02-22-14

Customer: WQAP

Project ID: SMP

Collected By: Nathan Mulkey, Myranda Butler

Field Report Prepared By: Nathan Mulkey

Sampling Agency: FDEP

Place Label Here

WIN ID/Field ID:



G4NW0507

Location: Collins Mill Creek upstream of Conecuh Street

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)
3/31/2021	910 CEN	8.1	91.8	21.8	5.87	0.3	0.9 ☒ VOB (S)	0.9	54.5	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 Lot # SA0293040 Exp: 10/19/21	☒ Ice ☒ H2SO4*	☒ <2	1	A
Metals (P-500ML)	☒ W-ICPMS ☒ W-ICP ☐ W-HARD Lot # NA0344060 Exp: 1/4/22	☒ Ice ☒ HNO3*	☒ <2	1	A
Filtered Nutrients (P125ML)	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter Filter Lot # 17097890 Syringe Lot # 0079929	☒ 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		2	
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) ☐ W-DIELDRIN	☒ Ice		5	A
Phytoplankton/Periphyton	DTM-QL-C ☐ PEN-QL-C ☐ DTY-QN-C ☐ PKD-QN-C DTM-QN-C ☐ PRN-QN-C ☐ PKD-QN-BV	☐ Ice			

Name:
Nathan Mulkey
Myranda Butler

Signature:

Date:

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution

Site Name Collins mill creek
Field ID G4NW0507 Storet G4NW0507
Visit ID 81993
RPS ID 9687
VPDB ID N/A
HA ID 76792

Date: 3/31/2021
Project: Smp
RQ: 2021-02-22-14
LIMS ID: 2235612
WBID: 24AC
24AC

☐ LVI

☐ RPS/LVS Only

☐ Sample Site Created in SBIO

☒ Phys/Chem entered in SBIO

☒ HA entered in SBIO Initial FB

☒ RPS entered in SBIO Initial FB

☐ LVI entered in SBIO Initial _____

☒ Date and Initial QA: JS 4/8/21

☒ Date and Initial QA: JS 4/8/21

☐ Date and Initial QA: _____

☒ < 2 m² vegetation

☐ Plants getting verified

Date submitted: _____

☐ Plants verified

Date returned: _____

☒ RPS authorized in SBIO

☒ Date and Initial: FB 4/12/2021

☒ RPS score: 0.0

☐ VPDB authorized in SBIO

☐ Date and Initial: _____

☐ VPDB score: _____

☒ SCI complete: TR sk
6/24/2021

SCI Score: 23

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

SAMPLE ID 81993 ORG ID 212PNS LATITUDE 30.62581
 COUNTY Santa Rosa WIN ID/STORET # 64M05070 LONGITUDE 87.03867
 DATE 3/31/21 TIME 0910 CTZ _____ SAMPLING AGENCY FL DEP - NWROC
 SITE NAME Collins Mill Creek Blackwater WBID 211R Project: SMP
 FIELD ID/NAME 64M05070 RECEIVING BODY OF WATER: _____

RIPARIAN ZONE / STREAM FEATURES

LIMS ID: 2235612

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								Typical Width (m) Depth (m)/Velocity (m/sec) Transect 7 m wide 0.04 m/s 0.04 m/s 0.04 m/s 0.9 m deep 0.9 m deep 0.9 m deep
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank: <u>2</u> Right Bank: <u>18</u>				Hydrologic Modification Score (per FT 3101) 				
High Water Mark: <u>1.0</u> + <u>0.9</u> = <u>1.9</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 2 Primaries Woody Debris (Snags) <u>2.9</u> Undercut Banks / Roots <u>4.3</u> Leaf Packs or Mat <u>0.04</u> Aquatic Vegetation Rock or Shell Rubble..... Sand..... Mud / Muck / Silt Other Other		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>21.8</u> <u>5.87</u> <u>8.10</u> <u>91.8</u> <u>54.5</u> <u>0.02</u> Mid: Bottom: Meter ID: <u>155077</u> <u>0.9</u>			
ABUNDANCE Not Obs. Rare Common Abundant Periphyton: ☐ ☒ ☐ ☐ Fish: ☐ ☐ ☒ ☐ Aquatic Plants: ☒ ☐ ☐ ☐ Iron/Sulfur Bacteria: ☒ ☐ ☐ ☐		Water Odors Normal ☐ Petroleum ☐ Sewage ☒ Chemical ☒ Other ☐ Water Sample Taken? ☒ Yes ☐ No Sample Preserved? ☒ Yes ☐ No Lot Number: <u>0293040</u> Exp: <u>10/14/21</u> Algae Sample Taken? ☐ Yes ☒ No Sample Preserved? ☐ Yes ☐ No Lot Number: _____ Exp: _____			
		Water Surface Oils Normal ☐ Sheen ☐ Globbs ☐ Slick ☒ Other ☐ Color Tannic ☐ Green (Algae) ☐ Clear ☒ Other (Specify) ☐ 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: <u>Nathan Minkley / Myranda Butler</u>			SIGNATURE: <u>Nathan Minkley</u>		DATE: <u>3/31/21</u>

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

SAMPLING AGENCY: <i>FDLP NWROC</i>		STORET STATION NUMBER: <i>64NW0507</i>	DATE (MM/DD/YY): <i>03/31/21</i>	RECEIVING BODY OF WATER: <i>Blackwater River</i>
REMARKS: <i>16792</i>	COUNTY: <i>Santa Rosa</i>	LOCATION: <i>Collins M. 11 Creek</i>	FIELD ID/NAME: <i>64NW0507</i>	
WBID <i>24AC</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>6</i>	20 19 18 17 16	15 14 13 12 11	10 9 8 7 <i>6</i>	5 4 3 2 1
Substrate Availability <i>6</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 14 13 12 11	6% to 15% major productive habitat 10 9 8 7 <i>6</i>	Less than 5% major productive habitat 5 4 3 2 1
Water Velocity <i>4</i>	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 <i>4</i> 3 2 1
Habitat Smothering <i>2</i> ----- Primary Score <i>18</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. 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 <i>2</i> 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>3</i>	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 <i>3</i> 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>7</i> Left Bank <i>7</i>	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 <i>9</i> Left Bank <i>3</i>	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 <i>8</i> Left Bank <i>4</i>	10 9	8 7 6	5 4	3 2 1
Secondary Score <i>41</i>				

59

TOTAL SCORE

Date: <i>3/31/21</i>	Analyst: <i>Nathan Mulkey</i>	Signature: <i>Nathan Mulkey</i>
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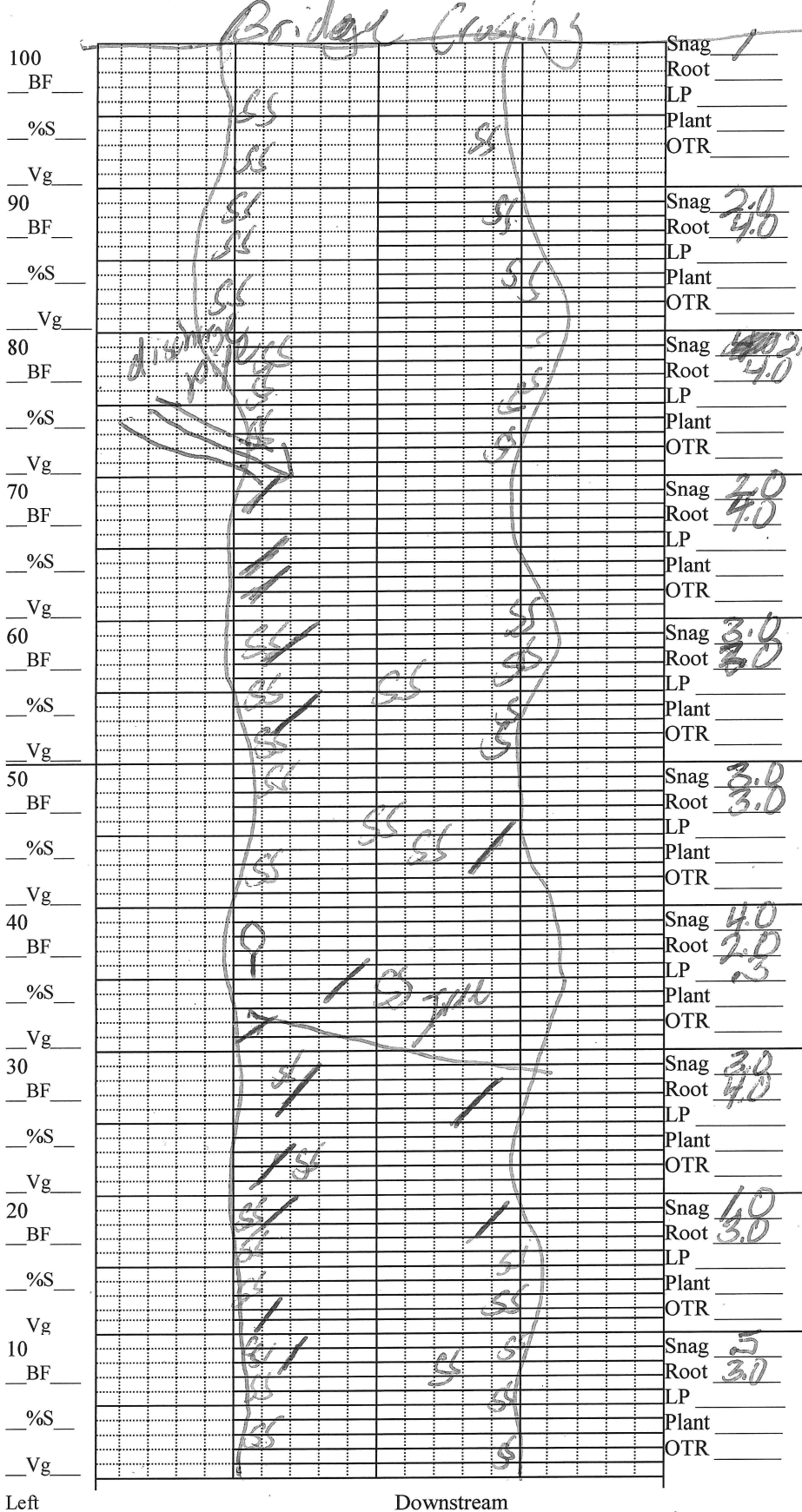
SBIO ID: *81993*
62-160.800, F.A.C.

HA ID: *16792*

Revision Date: March 1, 2014

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 *G4NW0507*

Substrates: Code key,
draw proportionate habitat
abundance.

20.5
70
2.9%
4.3%

☒ Snags

☒ Roots/undercut banks

☒ Leaf Packs (or mats)

☐ Macrophytes

☐

☐

☐

☐

Velocity:

Note where velocity
measures were taken. *0.04*

Habitat Smothering:

Note areas (on map) where
sand or silt is something
substrates, limiting
habitability. *smothering throughout*

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 *7* m

Average depth *.9* m

WQ & chemistry taken @ *0* m

Little Black Creek upstream
of Black Creek

Project. SMP / TMDL Studies
Sampled By/Date: *3/31/21*

0 m Latt. *30.62581*

0 m Long. *87.03867*

100 m Latt. *30.62587*

100 m Long. *87.03966*

Left
Bank

Downstream

-9d
4m w

700

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: Collins Mill Creek County: Santa Rosa Date: 3/31/21 Investigators: Nathan Mulkey / Myrona Butler

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	X		60	1	N	X		
	2					2				
	3					3				
	4					4				
	5			75		5			40	
	6					6				
	7					7				
	8					8				
	9					9				
10	1	N	X		70	1	N	X		
	2					2				
	3					3				
	4					4				
	5			75		5			40	
	6					6				
	7					7				
	8					8				
	9					9				
20	1	N	X		80	1	N	X		
	2					2				
	3					3				
	4					4				
	5			70		5			25	
	6					6				
	7					7				
	8					8				
	9					9				
30	1	N	X		90	1	N	X		
	2					2				
	3					3				
	4					4				
	5			70		5			20	
	6					6				
	7					7				
	8					8				
	9					9				
40	1	N	X		100	1	N	X		
	2					2				
	3					3				
	4					4				
	5			70		5			20	
	6					6				
	7					7				
	8					8				
	9					9				
50	1	N	X			1	N	X		
	2					2				
	3					3				
	4					4				
	5			65		5				
	6					6				
	7					7				
	8					8				
	9					9				

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%.

STORET Station Number:

64NW0507

RPS ID: 9687

Secchi depth 0.9
Estimated?

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

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-2021-02-22-14

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 ID 81993

RPS ID 9684

[illegible]

VPDB ID	N/A
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Revision Date: March 1, 2014

Document Reference # 05.1.0

Laboratory: Wetlands Research Laboratory

Nin

Method of transport: on ice by hand

Page 1 of 1

Samples delivered by: [Signature] of FDEP

Date/Time: 3/31/21 / 1155

Sample received by: Academ. from of WRL

Date/Time: 3/31/21 1155

Instructions: Fill in all fields except "Lab ID" on sample transport form completely. Each sample container must use a separate line. Place this form in a waterproof bag and place it with the samples for transport. If a field log or other chain of custody is attached, that information may be referenced on this form and the log or COC attached.

[illegible]

Comments: **Sample Container lot#** 20020

Surface water, no chlorine expected

RQ -2021-02-22-14

Contact organization FDEP

Contact name

Phone:

Address 160 Governmental Center, suite 308, Pensacola, FL 32502

Sampler's name:

¹Matrix examples: SW = surface water, PW = pore water, GW = ground water, FW = Freshwater, MW = Marine Water, BW = Brackish Water, S = soil/sediment, Other X =

²Type codes: G = grab, C = composite, X =

³ Recorded using IRT-2