

# 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: 2023-08-07-65

Project: REF STREAM

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 6/29/2023

| DO<br>DEP SOP<br>FT 1500 | Name      | Date    | Time<br>CT-ET | Temp<br>°C | Baro-<br>meter<br>mmHg | D.O.<br>Chart<br>mg/L | Meter<br>D.O.<br>mg/L | % DO  | Probe<br>Charge | Probe<br>Gain | Pass<br>/ Fail | Lab<br>/ Field |
|--------------------------|-----------|---------|---------------|------------|------------------------|-----------------------|-----------------------|-------|-----------------|---------------|----------------|----------------|
| Calibr.                  | F. Butler | 8/23/23 | 7:30          | 23.0       | 760                    | 8.6                   | 8.60                  | 100.1 |                 |               | P/F            | L/F            |
| ICV                      | F. Butler |         | 7:36          | 22.9       | 760                    | 8.6                   | 8.63                  | 100.3 |                 |               | P/F            | L/F            |
| CCV                      | NM        |         | 1400          | 23.8       | 769                    | 8.4                   | 8.30                  | 98.2  |                 |               | P/F            | L/F            |
| CCV                      |           |         |               |            |                        |                       |                       |       |                 |               | P/F            | L/F            |

DO Acceptance criteria from Table  $\pm 0.3$  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.<br>Cond.<br>FT 1200 | Name      | Date | Time<br>CT-ET | Lot #   | Expir.<br>Date | Standard<br>$\mu$ hos/cm | Meter<br>Reading<br>$\mu$ hos/cm | Pass<br>/ Fail | Lab<br>/ Field |
|---------------------------|-----------|------|---------------|---------|----------------|--------------------------|----------------------------------|----------------|----------------|
| Calibr.                   | F. Butler | 8/23 | 7:38          | 2212213 | 09/24          | 1000                     | 999                              | P/F            | L/F            |
| ICV                       | F. Butler | 8/23 | 7:41          | 230627A | 07/24          | 100                      | 995                              | P/F            | L/F            |
| CCV                       | NM        |      | 1402          |         |                |                          | 104                              | P/F            | L/F            |
| CCV                       |           |      |               |         |                |                          |                                  | P/F            | L/F            |

Conductivity Acceptance criteria  $\pm 5\%$

| pH<br>DEP SOP<br>FT 1100 | Name      | Date | Time<br>CT-ET | Lot #   | Expir.<br>Date | pH<br>Buffer<br>SU | Temp<br>°C | Meter<br>reading<br>SU | mV     | Pass<br>/ Fail | Lab<br>/ Field |
|--------------------------|-----------|------|---------------|---------|----------------|--------------------|------------|------------------------|--------|----------------|----------------|
| Calibr.                  | F. Butler | 8/23 | 7:46          | 1100690 | 8/31/24        | 7.0                | 23.2       | 7.01                   | -393   | P/F            | L/F            |
| Calibr.                  |           |      | 7:48          | 1150499 | 12/15/23       | 4.                 | 23.5       | 4.00                   | 144    | P/F            | L/F            |
| Calibr.                  | F. Butler |      | 7:51          | 1150735 | 8/31/22        | 10.                | 23.4       | 9.99                   | -196.2 | P/F            | L/F            |
| ICV                      |           |      | 7:53          | 1150499 | 12/15/23       | 4.0                | 23.2       | 3.99                   | 143.0  | P/F            | L/F            |
| CCV                      | NM        |      | 1405          | 1110490 | 8/24           | 7.0                | 22.1       | 7.08                   | 31.6   | P/F            | L/F            |
| CCV                      |           |      |               |         |                |                    |            |                        |        | P/F            | L/F            |

pH Acceptance criteria  $\pm 0.2$  SU; mV pH 7 Range  $0 \pm 50$ ; mV pH 4 Range  $+180 \pm 50$ ; mV pH 10 Range  $-180 \pm 50$ ;

If mV are recorded: slope from 7 to 10 164.7, slope from 4 to 7 174.5 (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: 6/29/2023

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

| Depth Sensor<br>(Daily Calibration &<br>ICV) | Name      | Date    | Time<br>CT-ET | Calibrated<br>Value (0.00 or<br>Offset), meters | ICV Value,<br>meters | Pass /<br>Fail | Lab /<br>Field |
|----------------------------------------------|-----------|---------|---------------|-------------------------------------------------|----------------------|----------------|----------------|
| Pressure mode in air                         | F. Butler | 8/23/23 | 7:55          | 0.00                                            | 0.00                 | P/F            | L/F            |

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

COMMENTS:

33-32020147  
McCoskill Mill Creek SCL 33020147

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
CHAIN OF CUSTODY FORM

**Date:** 8/23/2023  
**Customer:** NW-DIST  
**RQ:** RQ-2023-08-07-65  
**Collected By:** Frank Butera, Nathan Mulkey  
**Sampling Agency:** FDEP  
**Project ID:** SCIREF

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

**Number of Coolers Shipped:** 2

**Delivery Method:** FedEx

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

| Site Location                                   | Field ID/WIN ID                                                                                   |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------|
| McCostill Mill Creek Below Ebenezer Church Road | <br>33020147    |
| FB                                              | <br>FB_08232023 |

RELINQUISHED BY(SIGNATURE):



DATE/TIME: 8/23/2023

1600CEN

**THIS SECTION TO BE COMPLETED BY LABORATORY**

**Rec'd/Inspected By:**

**Rec'd/Inspected Date:**



## FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

## REFERENCE STREAMS FIELD SHEET

January 2022

Meter Passed End

of Day CCV

Yes ☒ No ☐

WIN Station Name: McCostill Mill Creek Below Ebenezer Church

Date: 8/23/2023

Road WIN/Field ID: 33020147

WBID: 118

ENR:

Latitude: 30.9185

County: Santa Rosa

Org ID: 21FLPNS

Longitude: -87.24782

Receiving Body of Water: Escambia River

RQ- 2023-08-07-65

| Sampling Team Members               |               | WQ Measurements | Sample Collection | Documentation | Preservation | Preservation Check |
|-------------------------------------|---------------|-----------------|-------------------|---------------|--------------|--------------------|
| <input checked="" type="checkbox"/> | Frank Butera  | x               |                   | x             |              |                    |
| <input checked="" type="checkbox"/> | Nathan Mulkey |                 | x                 |               | x            | x                  |
| <input type="checkbox"/>            |               |                 |                   |               |              |                    |
| <input type="checkbox"/>            |               |                 |                   |               |              |                    |

## Sampling Equipment

- ☒ Sample Container ☐ Carboy  
☐ Dipper ☐ Van Dorn  
☒ Syringe ☐ Pole

Depth measured with: Meter

Secchi Equipment ID: 155077

## 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: SBIO ID 87704. HA ID 18606, RPS ID 10140. Macro ID N/A, Benth ID. 45641

LIMS ID 2433420

## Notes:

/ SCI COLLECTION TIME: 1030

## Duplicate Sample

Time Zone: CEN

Time:

Field ID: N/A

(WIN ID\_DUP)

WIN DMT Activity ID:

## Blank

Time Zone: CEN

Time: 1010

Field ID: FB\_08232023

(Blank Type\_DDMYYYY)

DI Source: NWROC

Location: Pensacola Ice Room

DI Type: Field Blank

Equipment ID:

DI Container (Name/ID):

DI Container Type: Chum\_Bucket

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)

Scan/Save Field Sheets

(Initials/Date)

Migrate Data to WIN:

(Initials/Date)

Verify Data In WIN:

(Initials/Date)



RQ-2023-08-07-65

Customer: NW-DIST

Project ID: REFERENCE STREAMS

Collected By: Frank Butera, Nathan Mulkey

Field Report Prepared By: Frank Butera

Sampling Agency: FDEP

Place Label Here

WIN ID/Field ID:



33020147

Location: McCostill Mill Creek Below Ebenezer Church Road

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 <sub>h</sub> ) |
|-----------|-------------|-----------|-----------|------------|------|------------------|-----------------------------------------------------|-----------------|--------------------|------------------------------|
|           | 1000<br>CEN | 8.27      | 93.7      | 21.5       | 4.39 | 0.03             | 0.06<br><input checked="" type="checkbox"/> VOB (S) | 0.06            | 46.5               | 0.02                         |
| 8/23/2023 |             |           |           |            |      |                  | Central Lab please use top row for login purposes   |                 |                    |                              |
|           | CEN         |           |           |            |      |                  |                                                     |                 |                    |                              |

| Parameter Suite                    | Parameter Methods                                                                                                                                                                                                                               | Preservation                                                                       | pH Check                               | # Bottles sent to Lab | Bottle Group |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------|-----------------------|--------------|
| Preserved Nutrients (P-500ML)      | <input type="checkbox"/> W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP<br>Lot # SA3013020 Exp: 01/13/2024                                                                                                                                         | <input checked="" type="checkbox"/> Ice <input checked="" type="checkbox"/> H2SO4* | <input checked="" type="checkbox"/> <2 | 1                     | A            |
| Metals (P-500ML)                   | <input checked="" type="checkbox"/> W-ICPMS <input checked="" type="checkbox"/> W-ICP <input checked="" type="checkbox"/> W-HARD<br>Lot # NA2230040 Exp: 09/01/2023                                                                             | <input checked="" type="checkbox"/> Ice <input checked="" type="checkbox"/> HNO3*  | <input type="checkbox"/> <2            | 1                     | A            |
| Filtered Nutrients (P125ML)        | <input checked="" type="checkbox"/> W-PO4-F <input checked="" type="checkbox"/> Field Filtered 0.45 µm Filter<br>Filter Lot # 17460495                                                                                                          | <input checked="" type="checkbox"/> Ice                                            |                                        | 1                     | A            |
| Biochemical Oxygen Demand (BP-1L)  | BODTEST OV-BODUNIN                                                                                                                                                                                                                              | ICE                                                                                |                                        |                       |              |
| Chlorophyll (BP-1L)                | <input checked="" type="checkbox"/> CHLSUITE-W                                                                                                                                                                                                  | <input checked="" type="checkbox"/> Ice                                            |                                        | 1                     | A            |
| Physical/Aggregate (Fresh) (P-1L)  | <input checked="" type="checkbox"/> Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / TDS W-SO4-IC / W-                                                                                                                                | <input checked="" type="checkbox"/> Ice                                            |                                        | 1                     | A            |
| Physical/Aggregate (Marine) (P-1L) | <input type="checkbox"/> Alkalinity / W-F / W-TSS / TURBIDITY                                                                                                                                                                                   | <input type="checkbox"/> Ice                                                       |                                        |                       |              |
| Macroinvertebrates (PJ-2L)         | <input type="checkbox"/> MI-FW-QLDC Formalin Lot # -                                                                                                                                                                                            | <input checked="" type="checkbox"/> Formalin                                       |                                        | 2                     | B            |
| Periphyton (PT-50ML)               | <input type="checkbox"/> ALGAE-ID                                                                                                                                                                                                               | <input type="checkbox"/> Ice                                                       |                                        |                       |              |
| Microbiology (Contract Lab Bottle) | <input checked="" type="checkbox"/> E Coli <input type="checkbox"/> F Coli <input type="checkbox"/> Enterococci<br><input checked="" type="checkbox"/> Contract Lab                                                                             | <input checked="" type="checkbox"/> Ice                                            |                                        | 1                     | A            |
| Molecular (QPCR-P-500ML)           | <input type="checkbox"/> PCR-HF183 <input type="checkbox"/> PCR-BacR <input type="checkbox"/> PCR-DG3<br><input type="checkbox"/> PCR-GULL2 <input type="checkbox"/> PCR-GFD                                                                    | <input type="checkbox"/> Ice                                                       |                                        |                       |              |
| Tracers (BG-500ML)                 | <input type="checkbox"/> W-E8321-DI <input type="checkbox"/> W-E8321-MS                                                                                                                                                                         | <input type="checkbox"/> Ice                                                       | MCAA Exp. Date                         |                       |              |
| Pesticides (BG-500ML) (BG-1L)      | <input checked="" type="checkbox"/> W-E8321-DI <input checked="" type="checkbox"/> WE8321-MS <input checked="" type="checkbox"/> W-PSNP-TQ W-CT-Cl-R<br>W-PCL-TQ-R W-CARB-AA (5 ml of MCAA** Buffer Solution) W-TR-SQ-R<br>W-PCB-TQ-R PKD-QN-BV | <input checked="" type="checkbox"/> Ice                                            | MCAA Lot#                              | 5                     | A            |
| Phytoplankton/Periphyton           | DTY-QN-C                                                                                                                                                                                                                                        | <input type="checkbox"/> Ice                                                       |                                        |                       |              |

|                                        |                |                     |
|----------------------------------------|----------------|---------------------|
| Name:<br>Frank Butera<br>Nathan Mulkey | Signature:<br> | Date:<br>08/23/2023 |
|----------------------------------------|----------------|---------------------|

\*2.0 ml of Preservative used unless noted otherwise.

\*\*MCAA: Monochloroacetic acid buffer solution



RQ- 2023-08-07-65

Collected By: Frank Butera, Nathan Mulkey

Customer: WQAP

Field Report Prepared By: Frank Butera, Nathan Mulkey

Project ID: SMP

Sampling Agency: FDEP

## BLANK



Field ID: FB 08232023

Comments:

Matrix: Field Blank

(Check one) ☐ COMPOSITE ☒ GRAB

Date

Time

DI Source: NWROC

8/23/2023

1010

CEN

| Parameter Suite                        | Parameter Methods                                                                                                                            | Preservation                                                                      | pH Check                               | # Bottles sent to Lab | Bottle Group |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------|-----------------------|--------------|
| Preserved Nutrients<br>(P-500ML)       | <input checked="" type="checkbox"/> W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP                                                              | <input checked="" type="checkbox"/> Ice <input checked="" type="checkbox"/> H2SO4 | <input checked="" type="checkbox"/> <2 |                       |              |
|                                        | Lot # 3013020 Exp: 01/25/2024                                                                                                                |                                                                                   |                                        |                       |              |
| Metals<br>(P-500ML)                    | <input checked="" type="checkbox"/> W-ICPMS <input checked="" type="checkbox"/> W-ICP                                                        | <input checked="" type="checkbox"/> Ice <input type="checkbox"/> HNO3             | <input type="checkbox"/> <2            | 1                     | C            |
|                                        | Lot # NA2230040 Exp: 09/01/2023                                                                                                              |                                                                                   |                                        |                       |              |
| Filtered Nutrients<br>(P125ML)         | <input checked="" type="checkbox"/> W-PO4-F Filter <input checked="" type="checkbox"/> Field Filtered 0.45 µm                                | <input checked="" type="checkbox"/> Ice                                           |                                        | 1                     | C            |
|                                        | Filter Lot # 136514                                                                                                                          |                                                                                   |                                        |                       |              |
|                                        | Syringe Lot # 17460495                                                                                                                       |                                                                                   |                                        |                       |              |
| Physical/Aggregate (Fresh)<br>(P-1L)   | <input checked="" type="checkbox"/> Alkalinity / W-F / W-TSS / TURBIDITY / W-CI-IC / W-COLOR / W-SO4-IC / W-IC / TDS                         | <input checked="" type="checkbox"/> Ice                                           |                                        | 1                     | C            |
| Physical/Aggregate (Marine)<br>(P-1L)  | <input type="checkbox"/> Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY                                                                      | <input type="checkbox"/> Ice                                                      |                                        |                       |              |
| Tracers<br>(BG-500ML)                  | <input type="checkbox"/> W-E8321-DI <input type="checkbox"/> W-E8321-MS                                                                      | <input type="checkbox"/> Ice                                                      | MCAA Exp. Date                         |                       |              |
| Pesticides<br>(BG-500ML) (BG-1L)       | <input type="checkbox"/> W-E8321-DI <input type="checkbox"/> WE8321-MS <input type="checkbox"/> W-PSNP-TQ <input type="checkbox"/> W-CT-CI-R | <input type="checkbox"/> Ice                                                      | MCAA Lot#                              |                       |              |
|                                        | <input type="checkbox"/> W-PCL-TQ-R <input type="checkbox"/> W-CARB-AA <input type="checkbox"/> W-TR-SQ-R                                    |                                                                                   |                                        |                       |              |
|                                        | <input type="checkbox"/> W-PCB-TQ-R (5 ml of MCAA** Buffer Solution)                                                                         |                                                                                   |                                        |                       |              |
| Name:<br>Frank Butera<br>Nathan Mulkey |                                                                                                                                              | Signature:                                                                        |                                        | Date:<br>08/23/2023   |              |

\*2.0 ml of Preservative used unless noted otherwise.

\*\*MCAA: Monochloroacetic acid buffer solution

Site Name McCostill Mill Creek below Ebenezer Church Rd

Date: 08/23/2023

WIN ID 33020147

Field ID MCSTLMLCR

Project: Eco Reg Ref Streams

Visit ID 87704

RQ: 2023-08-07-65

RPS ID 10140

LIMS ID: 2433420

Macro ID N/A

WBID: 118

HA ID 18606

Benth ID: 45641

☒ SCI

☐ RPS/LVS Only

☒ Sample Site Created in SBIO

☒ Phys/Chem in SBIO Initial FB

☒ HA entered in SBIO Initial FB

☒ RPS entered in SBIO Initial FB

☐ LVS entered in SBIO Initial         

☒ Date and Initial QA: 8/30/23 NM

☒ Date and Initial QA: 8/30/23 NM

☒ Date and Initial QA: 8/30/23 NM

☐ Date and Initial QA:         

☐ 2 m<sup>2</sup> vegetation

☐ Plants getting verified

☐ Plants verified

Date submitted:         

Date returned:         

☒ RPS authorized in SBIO

☐ Date and Initial: 8/31/23 FB

☒ RPS score: 10

☐ Macro authorized in SBIO

☐ Date and Initial:         

☐ LVS Score:         

☒ SCI complete: M. Heyn 11/15/23

SCI Score: 51

☒ 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 87704 ORG ID 21FLPNS LATITUDE 30.91825  
 COUNTY Santa Rosa WIN ID/STORET # 33020147 LONGITUDE 87.24782  
 DATE 8/23/2023 TIME 10:00 CTZ  SAMPLING AGENCY FL DEP - NWROC  
 SITE NAME McCostill Mill Creek Below Ebenezer Church RQ-2023-08-07-65  
 FIELD ID/NAME MCSTLMCLR RECEIVING BODY OF WATER Escambia River WBID 118 Project: ECO REG REF STREAMS

RIPARIAN ZONE / STREAM FEATURES

LIMS ID: 2433420

|                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                                                                                                                                                                                                              |  |  |  |                                                                                                                                                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PREDOMINANT LAND-USE IN WATERSHED</b> (specify relative percent in each category) :<br>Forest/Natural <input checked="" type="checkbox"/> Silviculture <input checked="" type="checkbox"/> Field/Pasture <input type="checkbox"/> Agricultural <input checked="" type="checkbox"/> Residential <input checked="" type="checkbox"/> Commercial <input type="checkbox"/> Industry <input type="checkbox"/> Other (Specify) <input type="checkbox"/> |  |  |  |                                                                                                                                                                                                              |  |  |  | <b>Landscape Development Intensity Index (LDI)</b><br><u>1.7</u>                                                                                                                                                                                  |
| Local Watershed Erosion (select one) : <input type="checkbox"/> None <input type="checkbox"/> Slight <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Heavy<br>Local Watershed NPS Pollution : <input type="checkbox"/> No evidence <input checked="" type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy                                                                                 |  |  |  |                                                                                                                                                                                                              |  |  |  | <b>Typical Width (m) Depth (m)/Velocity (m/sec) Transect</b><br><u>90 m</u> <u>3</u> m wide<br><u>0.2</u> m/s <u>0.4</u> m/s <u>0.25</u> m/s<br><u>5 sec</u> <u>2.5 sec</u> <u>4 sec</u><br><u>0.2</u> m deep <u>0.2</u> m deep <u>0.1</u> m deep |
| <b>Width of Riparian Vegetation (m) on Each Buffer Side</b><br>Left Bank : <u>718</u> Right Bank : <u>718</u>                                                                                                                                                                                                                                                                                                                                        |  |  |  | <b>Hydrologic Modification Score</b> (per FT 3101) <u>1-2</u>                                                                                                                                                |  |  |  |                                                                                                                                                                                                                                                   |
| <b>High Water Mark:</b> <u>2.3</u> + <u>0.3</u> = <u>2.6</u><br>(m) (above present water level) (present depth) (above bed)                                                                                                                                                                                                                                                                                                                          |  |  |  | <b>Artificially Impounded</b><br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                         |  |  |  |                                                                                                                                                                                                                                                   |
| <b>Artificially</b> <input type="checkbox"/> No <input checked="" type="checkbox"/> Mostly recovered, more sinuous<br><b>Channelized :</b> <input type="checkbox"/> Some recovery <input type="checkbox"/> Recent, severe                                                                                                                                                                                                                            |  |  |  | <b>Canopy Cover %</b> <input type="checkbox"/> Open <input type="checkbox"/> Lightly Shaded (11-45%)<br><input checked="" type="checkbox"/> Heavily Shaded <input type="checkbox"/> Moderate Shaded (46-80%) |  |  |  |                                                                                                                                                                                                                                                   |

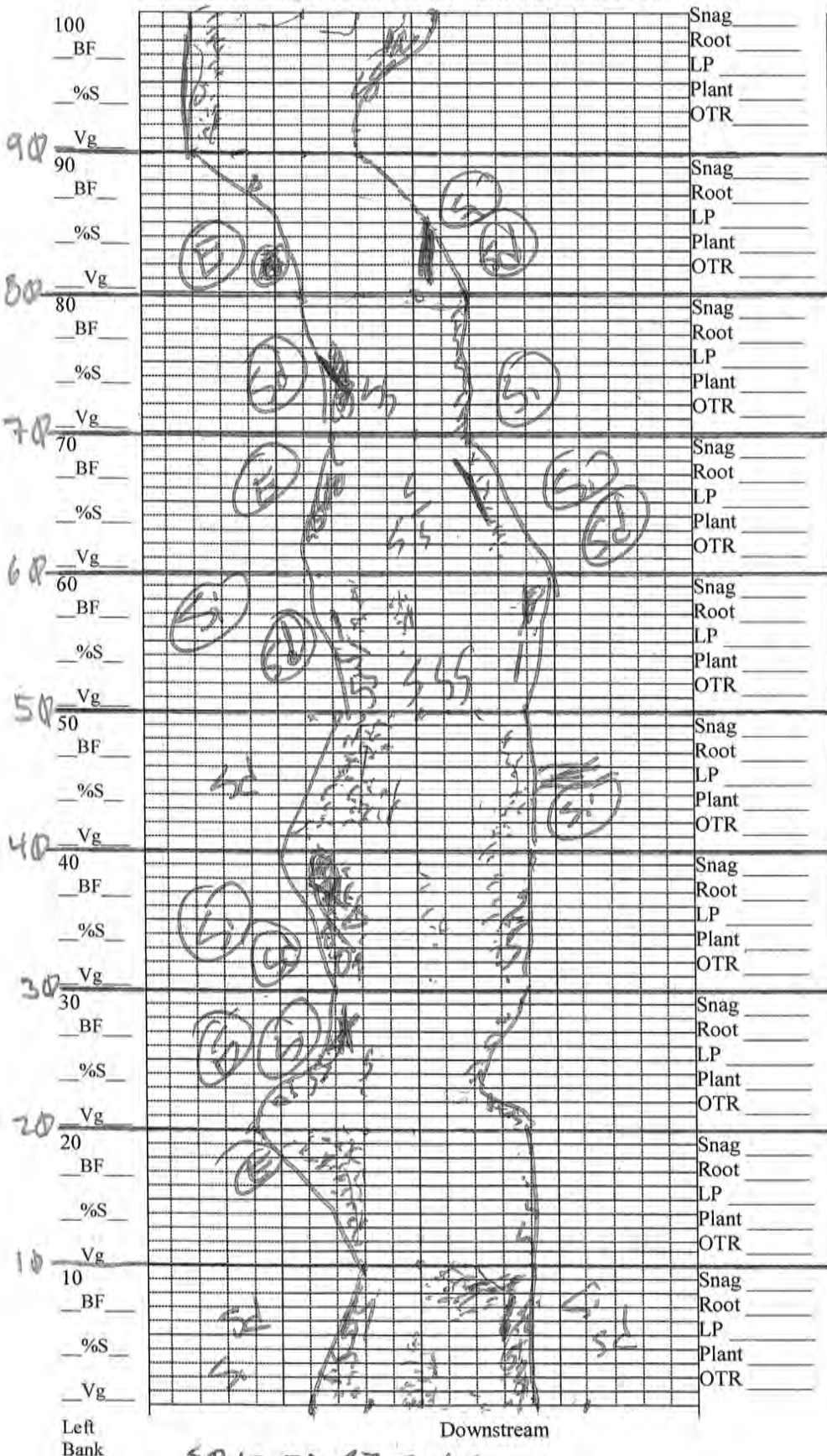
SEDIMENT / SUBSTRATE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| <b>Sediment Oils</b><br><input checked="" type="checkbox"/> Absent <input type="checkbox"/> Slight<br><input type="checkbox"/> Moderate <input type="checkbox"/> Profuse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  | <b>Sediment Odors</b><br><input checked="" type="checkbox"/> Normal <input type="checkbox"/> Sewage <input type="checkbox"/> Petroleum<br><input type="checkbox"/> Chemical <input type="checkbox"/> Anaerobic<br><input type="checkbox"/> Other (Specify) :                                                                                                                                                  |  |  | <b>Smothering of Substrates</b><br>Sand Smothering: None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe <input checked="" type="checkbox"/><br>Silt Smothering: None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Severe <input type="checkbox"/><br>Algae Smothering: None <input checked="" type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe <input type="checkbox"/> |  |  |
| <b>SUBSTRATE TYPE</b><br>Assessment Tool: <input checked="" type="checkbox"/> SCI <input checked="" type="checkbox"/> RPS <input checked="" type="checkbox"/> LVS<br><input type="checkbox"/> LCI <input type="checkbox"/> BioRecon<br>% Coverage INVERT # Times Sampled PERI # Times Sampled<br>Woody Debris (Snags) <u>2.1</u> <u>5</u><br>Undercut Banks / Roots <u>6.8</u> <u>5</u><br>Leaf Packs or Mat ..... <u>2.2</u> <u>5</u><br>Aquatic Vegetation ..... <u>0.1</u> <u>—</u><br>Rock or Shell Rubble.. <u></u> <u></u><br>Sand..... <u>79.1</u> <u>3</u> <u>82.8%</u><br>GRAVEL <u>9.7</u> <u>2</u><br>Mud / Muck / Silt ..... <u></u> <u></u><br>Other <u></u> <u></u><br>Other ..... <u></u> <u></u> |  |  | <b>WATER QUALITY</b><br>Depth (M) Temp. (°C) pH (SU) D.O. (MG/L) D.O. Sat (%) Cond. (UMHO/CM) Salinity (PPT) SECCHI (M)<br>Top : <u>0.03</u> <u>26.5</u> <u>4.39</u> <u>8.27</u> <u>93.7</u> <u>46.5</u> <u>0.02</u> <u>0.06</u><br>Mid: <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u><br>Bottom <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u><br>Meter ID: <u>155077</u> |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| <b>Water Odors</b> Normal <input checked="" type="checkbox"/> Petroleum <input type="checkbox"/><br>Sewage <input type="checkbox"/> Chemical <input type="checkbox"/> Other <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  | <b>Water Surface Oils</b> Normal <input checked="" type="checkbox"/> Sheen <input type="checkbox"/><br>Globbs <input type="checkbox"/> Slick <input type="checkbox"/> Other <input type="checkbox"/>                                                                                                                                                                                                          |  |  | <b>Water Sample Taken?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br><b>Sample Preserved?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>Lot Number: _____ Exp: _____                                                                                                                                                                                                                                                                                                |  |  |
| <b>Water Sample Taken?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br><b>Sample Preserved?</b> <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Lot Number: _____ Exp: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  | <b>Color</b> Tannic <input checked="" type="checkbox"/> Green (Algae) <input type="checkbox"/><br>Clear <input type="checkbox"/> Other (Specify) <input type="checkbox"/>                                                                                                                                                                                                                                     |  |  | <b>Clarity</b> Clear <input checked="" type="checkbox"/> Slightly Turbid <input type="checkbox"/><br>Turbid <input type="checkbox"/> Opaque <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                          |  |  |
| <b>ABUNDANCE</b> Not Obs. Rare Common Abundant<br>Periphyton: <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/><br>Fish: <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/><br>Aquatic Plants: <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/><br>Iron/Sulfur Bacteria: <input type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>                                                                                                                        |  |  | <b>System Type:</b> Stream <input checked="" type="checkbox"/> Lake <input type="checkbox"/> Wetland <input type="checkbox"/> Estuary <input type="checkbox"/> Other(Specify) <input type="checkbox"/>                                                                                                                                                                                                        |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| <b>AMBIENT FIELD CONDITIONS / NOTES:</b><br><input checked="" type="checkbox"/> The antecedent hydrologic conditions have been met to my best knowledge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| <b>SAMPLING TEAM:</b><br>Frank Butera, <u>Nathan Muller</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  | <b>SIGNATURE:</b><br><u>[Signature]</u>                                                                                                                                                                                                                                                                                                                                                                       |  |  | <b>DATE:</b><br><u>8/23/2023</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).

McCostill Mill Creek Below Ebenezer Church Rd.



WIN ID 33020147

Substrates: Code key,  
draw proportionate habitat  
abundance.

- ☒ Snags  $\frac{4}{380} = 2.1\%$
- ☒ Roots/undercut banks  $\frac{25.9}{380} = 6.8\%$
- ☒ Leaf Packs (or mats)  $\frac{8.4}{380} = 2.2\%$
- ☒ Macrophytes
- ☒ Gravel  $\frac{37}{380} = 9.7\%$
- ☒ BAR
- ☒ Sand  $\frac{300}{380} = 79.1\%$

Velocity:

Note where velocity  
measures were taken. m

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 3.8 m

Average depth 0.2 m

WQ & chemistry taken @ 100 m

Station Name:

McCostill Mill Creek Below

Ebenezer Church Rd.

Project. Eco Reg Ref Streams

Sampled By/Date: 8/23/2023

0 m Latt. 30.91778

0 m Long. 87.24866

100 m Latt 30.91818

100 m Long 87.24778

SB10 ID 87704

# McCostill Mill Creek blw Ebenezer Rd

| 0-10 meter [A]   | Habitat Area (M) | Left Bank | Right Bank |
|------------------|------------------|-----------|------------|
|                  | Snag 0.2         | Bankfull  | Bankfull   |
| 0m width (m) 4.7 | Root 4.0         | +         | -          |
| 10m width 3.3    | Leaf 0.3         | Slope     | Slope      |
| Avg. Depth 1.2   | Veg -            | +         | +          |
| Max Depth 2.7    | Gravel 7.0       | Veg       | Veg        |
| Rip. Buff L 718  | Rock             | +         | +          |
| Rip. Buff R 718  | S. sd            |           |            |

| 10-20 meter [B] | Habitat Area (M) | Left Bank | Right Bank |
|-----------------|------------------|-----------|------------|
|                 | Snag 0.8         | Bankfull  | Bankfull   |
| 20m width 4.7   | Root 2.0         | -         | -          |
|                 | Leaf 0.4         | Slope     | Slope      |
| Avg. Depth 1.2  | Veg -            | +         | +          |
| Max Depth 1.3   | Gravel 1.0       | Veg       | Veg        |
| Rip. Buff L 718 | Rock             | +         | +          |
| Rip. Buff R 718 | S. sd            |           |            |

| 20-30 meter [C] | Habitat Area (M) | Left Bank | Right Bank |
|-----------------|------------------|-----------|------------|
|                 | Snag 5.0         | Bankfull  | Bankfull   |
| 30m width 3.7   | Root 2.3         | -         | -          |
|                 | Leaf 1.0         | Slope     | Slope      |
| Avg. Depth 1.25 | Veg 0.1          | +         | +          |
| Max Depth 3     | Gravel 1.0       | Veg       | Veg        |
| Rip. Buff L 718 | Rock             | +         | +          |
| Rip. Buff R 718 | (E) (G) (I) (K)  |           |            |

| 30-40 meter [D] | Habitat Area (M) | Left Bank | Right Bank |
|-----------------|------------------|-----------|------------|
|                 | Snag 0.2         | Bankfull  | Bankfull   |
| 40m width 5.2   | Root 2.0         | +         | -          |
|                 | Leaf 2.0         | Slope     | Slope      |
| Avg. Depth 0.1  | Veg              | +         | +          |
| Max Depth 0.1   | Gravel 1.5       | Veg       | Veg        |
| Rip. Buff L 718 | Rock             | +         | +          |
| Rip. Buff R 718 | (S) (SL)         |           |            |

| 40 - 50 meter [E] | Habitat Area (M)   | Left Bank | Right Bank |
|-------------------|--------------------|-----------|------------|
|                   | Snag 0.3           | Bankfull  | Bankfull   |
| 50m width 3.0     | Root 0.1           | +         | +          |
|                   | Leaf 0.1           | Slope     | Slope      |
| Avg. Depth 0.1    | Veg                | +         | +          |
| Max Depth 0.2     | Gravel             | Veg       | Veg        |
| Rip. Buff L 718   | Rock               | +         | +          |
| Rip. Buff R 718   | (S) (SL) (FS) (SU) |           |            |

| 50-60 meter [F] | Habitat Area (M) | Left Bank | Right Bank |
|-----------------|------------------|-----------|------------|
|                 | Snag 0.5         | Bankfull  | Bankfull   |
| 60m width 4.5   | Root 0.5         | +         | +          |
|                 | Leaf 0.1         | Slope     | Slope      |
| Avg. Depth 0.2  | Veg              | +         | -          |
| Max Depth 0.2   | Gravel           | Veg       | Veg        |
| Rip. Buff L 718 | Rock             | +         | +          |
| Rip. Buff R 718 | Fe sd            | sd        | Si         |

| 60-70 meter [G] | Habitat Area (M) | Left Bank | Right Bank |
|-----------------|------------------|-----------|------------|
|                 | Snag 0.3         | Bankfull  | Bankfull   |
| 70m width 2.5   | Root 6.5         | +         | -          |
|                 | Leaf 3.0         | Slope     | Slope      |
| Avg. Depth 1.2  | Veg -            | +         | -          |
| Max Depth 1.2   | Gravel           | Veg       | Veg        |
| Rip. Buff L 718 | Rock             | +         | +          |
| Rip. Buff R 718 | (S) (G) (I) (K)  |           |            |

| 70-80 meter [H] | Habitat Area (M) | Left Bank | Right Bank |
|-----------------|------------------|-----------|------------|
|                 | Snag 0.5         | Bankfull  | Bankfull   |
| 80m width 3.0   | Root 6.5         | +         | +          |
|                 | Leaf 0.7         | Slope     | Slope      |
| Avg. Depth 0.2  | Veg              | +         | +          |
| Max Depth 0.2   | Gravel           | Veg       | Veg        |
| Rip. Buff L 718 | Rock             | +         | +          |
| Rip. Buff R 718 | (S) (G) (I) (K)  |           |            |

| 80-90 meter [I] | Habitat Area (M) | Left Bank | Right Bank |
|-----------------|------------------|-----------|------------|
|                 | Snag 0.4         | Bankfull  | Bankfull   |
| 90m width 3.0   | Root 1.0         | -         | -          |
|                 | Leaf 0.3         | Slope     | Slope      |
| Avg. Depth 0.2  | Veg 0.1          | +         | -          |
| Max Depth 0.2   | Gravel           | Veg       | Veg        |
| Rip. Buff L 718 | Rock             | +         | +          |
| Rip. Buff R 718 | (E) (G) (I) (K)  |           |            |

| 90 - 100 meter [J] | Habitat Area (M)             | Left Bank | Right Bank |
|--------------------|------------------------------|-----------|------------|
|                    | Snag 0.1                     | Bankfull  | Bankfull   |
| 100m width 4.5     | Root 1.3                     | -         | -          |
|                    | Leaf 0.5                     | Slope     | Slope      |
| Avg. Depth 0.2     | Veg                          | +         | -          |
| Max Depth 0.2      | Gravel 5.0                   | Veg       | Veg        |
| Rip. Buff L 718    | Rock                         | +         | +          |
| Rip. Buff R 718    | (Fe) (S) (SL) (FS) (SU) HW23 |           |            |

Station Name

McCostill Mill Creek blw Ebenezer Rd

Storet: 33020147

Date 8/23/2023

0 meter (Dec Deg)

30.91778

87.24866

100 meter (Dec Deg)

30.91818

87.24778

Water Quality Measured at

100m

Stream Velocity and location.

0.4 m/s 90 meter mark

Number of Pools & Location

0 pools

High Water: 2.3

Silt smothering @

A-J

Sand Smothering @

A-J

Algae Smothering @

Degraded Banks @

B, C, G, I, J

Fe/Sulfur Bact. @

F, J, S

| Total Habitat               | Sq. Meters | Percent |
|-----------------------------|------------|---------|
| Snags                       | 8.0        | 2.1     |
| Roots                       | 25.9       | 6.8     |
| Leaf                        | 8.4        | 2.2     |
| Veg                         | 0.2        | 0.1     |
| Rock                        |            |         |
| Gravel                      | 37.0       | 9.7     |
| Sand                        | 300.5      | 79.1    |
| Other                       |            |         |
| Sum 1 <sup>st</sup> Habitat |            | 11.2    |

| Avg. Depth | Max. Depth | Avg. Width |
|------------|------------|------------|
| 0.2        | 0.3        | 2.5        |

Bank Stability Score. Left Bank 1.8 Right Bank 2.4 Category Left Bk Marginal Right Bk Sub-Optimal

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.

2.5

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

|                                         |                       |                                                             |                             |                                         |
|-----------------------------------------|-----------------------|-------------------------------------------------------------|-----------------------------|-----------------------------------------|
| SAMPLING AGENCY:<br>21FLPNS. DEAR NWROC |                       | STORET STATION NUMBER:<br>33020147                          | DATE (MM/DD/YY):<br>8/23/23 | RECEIVING BODY OF WATER:<br>Escambia R. |
| REMARKS:<br>WBID 118                    | COUNTY:<br>Santa Rosa | LOCATION:<br>McCostill Mill Creek Below Ebenezer Church Rd. | FIELD ID/NAME:<br>MCSTMLCR  |                                         |

| 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>12</u>                                                                                           | 20 19 18 17 16                                                                                                                                                                                                                   | 15 14 13 <u>12</u> 11                                                                                                                                                   | 10 9 8 7 6                                                                                                                                        | 5 4 3 2 1                                                                                                                          |
| Substrate Availability <u>8</u>                                                                                         | Greater than 30% major productive habitat present at site<br>20 19 18 17 16                                                                                                                                                      | 16% to 30% major productive habitat, by aerial extent<br>15 14 13 12 11                                                                                                 | 6% to 15% major productive habitat<br>10 9 <u>8</u> 7 6                                                                                           | Less than 5% major productive habitat<br>5 4 3 2 1                                                                                 |
| Water Velocity <u>2cd</u>                                                                                               | Max. observed at typical transect: > 0.25 m/sec. But < 1 m/sec<br>≥0.33 0.31 0.29 0.27 >0.25<br><u>20</u> 19 18 17 16                                                                                                            | Max. observed at typical transect: >0.1 to 0.25 m/sec<br>0.25 0.21 0.17 0.13 >0.1<br>15 14 13 12 11                                                                     | Max. observed at typical transect: 0.05 to 0.1 m/sec<br>0.1 0.09 0.07 0.06 0.05<br>10 9 8 7 6                                                     | Max. observed at typical transect: <0.05 m/sec; or spate occurring: > 1 m/sec<br><0.05 0.04 0.03 0.01 <0.01<br>5 4 3 2 1           |
| Habitat Smothering <u>7</u><br>-----<br>Primary Score <u>47</u>                                                         | Adequate number of stable pools (1-2 per 12 times width) and <25% of habitats affected by sand, silt, or algae.<br>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.<br>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).<br>10 9 8 <u>7</u> 6         | Stable pools are absent. Most habitats affected by sand, silt, or algae accumulation.<br>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>15</u>                                                                                     | 20 19 18 17 16                                                                                                                                                                                                                   | <u>15</u> 14 13 12 11                                                                                                                                                   | 10 9 8 7 6                                                                                                                                        | 5 4 3 2 1                                                                                                                          |
| Bank Stability<br>Right Bank <u>8</u><br>Left Bank <u>5</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.<br>10 9                                                                   | Only meets 2 of the 3 requirements for optimal bank stability.<br>8 7 6                                                                                                 | Only meets 1 of the 3 requirements for optimal bank stability.<br>5 4                                                                             | Bankfull < 60% of bank height. Slope of bank > 60°. Bankfull is below the root zone with raw, eroded areas.<br>3 2 1               |
| Riparian Buffer Zone Width<br>Right Bank <u>1cd</u><br>Left Bank <u>1cd</u>                                             | Width of vegetation greater than 18 m<br><u>10</u> 9                                                                                                                                                                             | Width of vegetation >12 to 18m<br>8 7 6                                                                                                                                 | Width of vegetation 6 to 12 m. human activities close to system<br>5 4                                                                            | Less than 6 m of buffer zone due to intensive human activities<br>3 2 1                                                            |
| Riparian Zone Vegetation Quality<br>Right Bank <u>1cd</u><br>Left Bank <u>1cd</u><br>-----<br>Secondary Score <u>68</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.<br><u>10</u> 9 | >50% to 80% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Some disruption in community observed.<br>8 7 6 | 25% to 50% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Disruption obvious.<br>5 4 | Less than 25% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions).<br>3 2 1 |

115

TOTAL SCORE  $\frac{115}{160} = 71.9\%$

|                 |                    |                                                                                                  |
|-----------------|--------------------|--------------------------------------------------------------------------------------------------|
| Date: 8/23/2023 | Analyst: F. Butera | Signature:  |
|-----------------|--------------------|--------------------------------------------------------------------------------------------------|

SBIO ID: B7704

HA ID: 18606

62-160.800, F.A.C.

Revision Date: March 1, 2014

# DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: McCostill Mill Creek Below Ebenezer Church Rd. County: Santa Rosa Date: 8/23/2013 Investigators: F. Butler

| Transect (m) | Point<br>1=right<br>9=left | Algal Thickness Rank<br>(N-6, X) | Estimated | Canopy Cover | Transect (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Point<br>1=right<br>9=left | Algal Thickness Rank<br>(N-6, X) | Estimated | Canopy Cover |  |
|--------------|----------------------------|----------------------------------|-----------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------------|-----------|--------------|--|
| 0            | 1                          | N                                | N         |              | 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1                          | N                                | N         |              |  |
|              | 2                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2                          |                                  |           |              |  |
|              | 3                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3                          |                                  |           |              |  |
|              | 4                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4                          |                                  |           |              |  |
|              | 5                          |                                  |           | 96           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5                          |                                  |           | 96           |  |
|              | 6                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6                          |                                  |           |              |  |
|              | 7                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 7                          |                                  |           |              |  |
|              | 8                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 8                          |                                  |           |              |  |
|              | 9                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 9                          |                                  |           |              |  |
| 10           | 1                          | N                                | N         |              | 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1                          | N                                | N         |              |  |
|              | 2                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2                          |                                  |           |              |  |
|              | 3                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3                          |                                  |           |              |  |
|              | 4                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4                          |                                  |           |              |  |
|              | 5                          |                                  |           | 96           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5                          |                                  |           | 96           |  |
|              | 6                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6                          |                                  |           |              |  |
|              | 7                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 7                          |                                  |           |              |  |
|              | 8                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 8                          |                                  |           |              |  |
|              | 9                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 9                          |                                  |           |              |  |
| 20           | 1                          | N                                | N         |              | 80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1                          | N                                | N         |              |  |
|              | 2                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2                          |                                  |           |              |  |
|              | 3                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3                          |                                  |           |              |  |
|              | 4                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4                          |                                  |           |              |  |
|              | 5                          |                                  |           | 96           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5                          |                                  |           | 96           |  |
|              | 6                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6                          |                                  |           |              |  |
|              | 7                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 7                          |                                  |           |              |  |
|              | 8                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 8                          |                                  |           |              |  |
|              | 9                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 9                          |                                  |           |              |  |
| 30           | 1                          | N                                | N         |              | 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1                          | N                                | N         |              |  |
|              | 2                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2                          |                                  |           |              |  |
|              | 3                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3                          |                                  |           |              |  |
|              | 4                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4                          |                                  |           |              |  |
|              | 5                          |                                  |           | 96           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5                          |                                  |           | 96           |  |
|              | 6                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6                          |                                  |           |              |  |
|              | 7                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 7                          |                                  |           |              |  |
|              | 8                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 8                          |                                  |           |              |  |
|              | 9                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 9                          |                                  |           |              |  |
| 40           | 1                          | N                                | N         |              | 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1                          | N                                | N         |              |  |
|              | 2                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2                          |                                  |           |              |  |
|              | 3                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3                          |                                  |           |              |  |
|              | 4                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4                          |                                  |           |              |  |
|              | 5                          |                                  |           | 96           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5                          |                                  |           | 96           |  |
|              | 6                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6                          |                                  |           |              |  |
|              | 7                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 7                          |                                  |           |              |  |
|              | 8                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 8                          |                                  |           |              |  |
|              | 9                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 9                          |                                  |           |              |  |
| 50           | 1                          | N                                | N         |              | <p>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.</p> <p>Record "X" for points shallower than Secchi depth for which substrate cannot be seen or reached with the hand. No estimated rank.</p> <p>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.</p> <p>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 &gt;20%.</p> |                            |                                  |           |              |  |
|              | 2                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |                                  |           |              |  |
|              | 3                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |                                  |           |              |  |
|              | 4                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |                                  |           |              |  |
|              | 5                          |                                  |           | 96           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |                                  |           |              |  |
|              | 6                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |                                  |           |              |  |
|              | 7                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |                                  |           |              |  |
|              | 8                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |                                  |           |              |  |
|              | 9                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |                                  |           |              |  |

STORET Station Number:  
33020147

Secchi depth  
Estimated? N

# points ranked 4-6 2  
total points assessed 4  
% points ranked 4-6 50

Check accompanying data collected at same site/date.  
Algal mat sample  
Linear Veg Survey  
Habitat Assessment  
SCI/Biorecon  
Water sample  
RQ-2023-08-07-65

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. 87704

RPS ID. 10140

RPS Score 0

| DEP FORM FD 9000-32: LINEAR VEGETATION SURVEY FIELD SHEET                                                                                                                                                                                                                                                                                                                   |            |       |       |       |       |       |       |       |       |                 |                            |                           |            |       |                                    |       |       |       |       |                         |       |        |                            |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------|-------|-------|-------|-------|-------|-------|-------|-----------------|----------------------------|---------------------------|------------|-------|------------------------------------|-------|-------|-------|-------|-------------------------|-------|--------|----------------------------|--|--|
| Waterbody: McCostill Mill Creek Below                                                                                                                                                                                                                                                                                                                                       |            |       |       |       |       |       |       |       |       | Date: 8/23/2023 |                            |                           |            |       | County: Santa Rosa                 |       |       |       |       | Storet Number: 33020147 |       |        |                            |  |  |
| Analyst: Ebenezer Church Rd.                                                                                                                                                                                                                                                                                                                                                |            |       |       |       |       |       |       |       |       | F. Butera       |                            |                           |            |       | Signature: [Handwritten Signature] |       |       |       |       |                         |       |        |                            |  |  |
| Comments:                                                                                                                                                                                                                                                                                                                                                                   |            |       |       |       |       |       |       |       |       |                 |                            |                           |            |       |                                    |       |       |       |       |                         |       |        |                            |  |  |
| Instructions: Note taxa growing in the water with a checkmark if present, "D" if dominant, and "C" if codominant (dominance only if 1 m <sup>2</sup> 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. |            |       |       |       |       |       |       |       |       |                 |                            |                           |            |       |                                    |       |       |       |       |                         |       |        |                            |  |  |
| HERBACEOUS SPECIES                                                                                                                                                                                                                                                                                                                                                          | Meter Mark |       |       |       |       |       |       |       |       |                 | Specimen collected (check) | HERBACEOUS SPECIES        | 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 |                            |  |  |
| Alternanthera philoxeroides                                                                                                                                                                                                                                                                                                                                                 |            |       |       |       |       |       |       |       |       |                 |                            | Micranthemum glomeratum   |            |       |                                    |       |       |       |       |                         |       |        |                            |  |  |
| Bacopa caroliniana                                                                                                                                                                                                                                                                                                                                                          |            |       |       |       |       |       |       |       |       |                 |                            | Micranthemum umbrosum     |            |       |                                    |       |       |       |       |                         |       |        |                            |  |  |
| Bacopa monnieri                                                                                                                                                                                                                                                                                                                                                             |            |       |       |       |       |       |       |       |       |                 |                            | Myriophyllum aquaticum    |            |       |                                    |       |       |       |       |                         |       |        |                            |  |  |
| Bidens mitis                                                                                                                                                                                                                                                                                                                                                                |            |       |       |       |       |       |       |       |       |                 |                            | Najas guadelupensis       |            |       |                                    |       |       |       |       |                         |       |        |                            |  |  |
| Boehmeria cylindrica                                                                                                                                                                                                                                                                                                                                                        |            |       |       |       |       |       |       |       |       |                 |                            | Nuphar luteum             |            |       |                                    |       |       |       |       |                         |       |        |                            |  |  |
| Centella asiatica                                                                                                                                                                                                                                                                                                                                                           |            |       |       |       |       |       |       |       |       |                 |                            | Oryzopsis aquatica        |            |       |                                    |       |       |       |       |                         |       |        |                            |  |  |
| Ceratophyllum demersum                                                                                                                                                                                                                                                                                                                                                      |            |       |       |       |       |       |       |       |       |                 |                            | Panicum hemitomon         |            |       |                                    |       |       |       |       |                         |       |        |                            |  |  |
| 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                                                                                                                                                                                                                                                                                                                                                           |            |       |       |       |       |       |       |       |       |                 |                            | Pontederia cordata        |            |       |                                    |       |       |       |       |                         |       |        |                            |  |  |
| Diodia virginiana                                                                                                                                                                                                                                                                                                                                                           |            |       |       |       |       |       |       |       |       |                 |                            | Potamogeton illinoensis   |            |       |                                    |       |       |       |       |                         |       |        |                            |  |  |
| Eichhornia crassipes                                                                                                                                                                                                                                                                                                                                                        |            |       |       |       |       |       |       |       |       |                 |                            | Ruellia simplex           |            |       |                                    |       |       |       |       |                         |       |        |                            |  |  |
| Eleocharis (wispy viviparous)                                                                                                                                                                                                                                                                                                                                               |            |       |       |       |       |       |       |       |       |                 |                            | Sagittaria 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                                                                                                                                                                                                                                                                                                                                                          |            |       |       |       |       |       |       |       |       |                 |                            | [Handwritten: 2402]       |            |       |                                    |       |       |       |       |                         |       |        |                            |  |  |
| Ludwigia repens                                                                                                                                                                                                                                                                                                                                                             |            |       |       |       |       |       |       |       |       |                 |                            |                           |            |       |                                    |       |       |       |       |                         |       |        |                            |  |  |

| REF STREAM - McCostill Mill Creek<br>below Ebenezer Church Rd.                             | WBID | Kit                       | Qty | Bottle Group | Bottles |
|--------------------------------------------------------------------------------------------|------|---------------------------|-----|--------------|---------|
| McCostill Mill Creek Below Ebenezer<br>Church Rd.<br><del>32020147</del> -<br><br>33020147 | 118  | SCI Kit                   | 1   | A            |         |
|                                                                                            |      | Nutrients                 |     |              | 3       |
|                                                                                            |      | Ortho-Phosphate           |     |              | 1       |
|                                                                                            |      | Metals                    |     |              | 1       |
|                                                                                            |      | Tracers: E8321-MS/DI      |     |              | 1       |
|                                                                                            |      | PNSP-TQ-R, TR-SQ-R        |     |              | 4       |
|                                                                                            |      | Escherichia coli          | 1   | B            | 1       |
|                                                                                            |      | SCI                       | 1   |              | 2       |
|                                                                                            |      | Periphyton                | 1   |              | 1       |
|                                                                                            |      | HA                        | 1   |              | -       |
|                                                                                            |      | RPS                       | 1   |              | -       |
|                                                                                            |      | LVS                       | 1   |              | -       |
| Field Blank                                                                                |      | Nutrients w/o Chlorophyll | 1   | C            | 2       |
|                                                                                            |      | Ortho-Phosphate           | 1   |              | 1       |
|                                                                                            |      | Metals                    | 1   |              | 1       |
| RQ-2023-08-07-65 NEED PICS                                                                 |      |                           |     |              |         |

| Field ID | WBID | WIN Description                                   | County     | Lat Long            |
|----------|------|---------------------------------------------------|------------|---------------------|
| 33020147 | 118  | McCostill Mill Creek Below<br>Ebenezer Church Rd. | Santa Rosa | 30.91825, -87.24782 |

| Test          | Lot #          | Expiration date: |
|---------------|----------------|------------------|
| UWF Bottle    | L21347#....350 | 1/13/2025        |
| Sulfuric Acid | SA3013020      | 1/25/2024        |
| Nitric Acid   | NA2230040      | 9/1/2023         |
| Syringe       | 136514         | -                |
| PO4 Filter    | 17460495       | -                |

| Notes (access, boat ramp, etc.) |            |
|---------------------------------|------------|
| 32020147 33020147               | Needs Pics |

McCostill Mill Creek SCI

REF STREAM - Boiling Creek at Boat Ramp SCI

| WIN ID / Field ID                | TIME | Conductivity | pH | DO mg-L / Temp. |
|----------------------------------|------|--------------|----|-----------------|
| 33020147<br>33020147 / MCSTLMLCR |      |              |    |                 |
| RQ-2023-08-07-65                 |      |              |    |                 |

Field/WIN ID



FB\_08232023

Location:

McCostill Mill Creek

Field/WIN ID



33020147

Location:

McCostill Mill Creek Below Ebenezer Church Rd.

Ref:  
Dep:

Date: 25Jul23  
Wgt: 22.00 LBS  
DV: 0.00

SHIPPING: 0.00  
SPECIAL: 0.00  
HANDLING: 0.00  
TOTAL: 0.00

- H2O  
Quality

PRIME OVERNIGHT Master 6484 8456 9240  
TRCV: RARA R456 0240

Location:

REFERENCE STREAM SCI



2023-08-07-65

Ref:  
Dep:

Date: 25Jul23  
Wgt: 22.00 LBS  
DV: 0.00

SHIPPING: 0.00  
SPECIAL: 0.00  
HANDLING: 0.00  
TOTAL: 0.00

- Blank  
- QDC

PRIME OVERNIGHT Master 6484 8456 9240  
TRCV: RARA R456 0240

## Document Reference # 05.1.0

Laboratory: Wetlands Research Laboratory

Sampler's initials :

to Mr. H. C.

Page 1 of 1

Date/Time: 8/23/2023, 1300

Date/Time: 8/23/2023 1 1300

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 CQC attached.

[illegible]

PO # C1E884

Surface water, no chlorine expected

RQ -2023-08-07-65

Contact name: **Stopher Slade**

Phone: 850-595-8300

Sampler's name: F. Butler, N. Munk

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

<sup>3</sup> Recorded using IRT-2