FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified? Yes / No

WIN Station Name: Manuel Branch @ Park **Date:** 05/08/2019 (NR mm/dd/yyyy)

WIN/ Field ID: G1SD0070 **WBID:** 3240V **Latitude:** 26.626159 (Decimal Degrees)

County: Lee **ORG ID:** _____ **Longitude:** -81.86812 (Decimal Degrees)

Receiving Body of Water: Caloosahatchee **RQ-** 2019-05-06-73

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
John Burrington					
Nicole Reistel	✓			✓	
Cory Snouck		✓		✓	✓
Chase Conley			✓		

Sampling Equipment
- ☑ Sample Container ☐ Van Dorn ☐ Pole
- ☐ Carboy ☑ Syringe
- ☐ Dipper ☐ Other _____
- Depth Measured with Secchi
- Equipment ID 331213

Collection Method
- ☑ Wading ☐ Canoe/Kayak
- ☐ From Shore ☐ Electric Motor
- ☐ Other _____ ☐ Gasoline Motor

Water Level: Dry/ Pooled/ Low / (Normal) / High / Flooded **Meter ID#** Sonde **Matrix:** (Fresh) / Marine / DI

Photos: Yes / (No) **Flow:** No Flow / Intestital / (Flowing) / NA **Tide:** Rising/ Falling/ Slack/ (NA) **Tide Times:** High _____ Low _____

Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPTh)	Sp COND (µmhos/cm)	Temp. (C°)
(EST)	0900	1.3	0.3	1.3	2.36	29.4	7.18	0.54	1081	26.5
CEN				"S"						

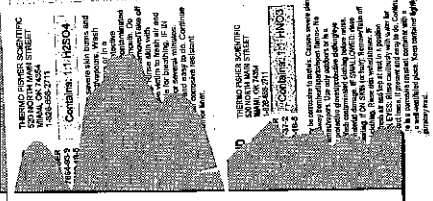
Biological Samples Collected: None (HA) (SQ) (RPS) Algae ID (MS) LVI Other:

SBIO ID Numbers: SBIO-ID: 796883 HA-ID: 15955 RPS-ID: 9340 Macrophyte-ID: NR 4316 11317 LIMS#: 2085614

Parameter Suite	Parameter Methods	Preservation	Lot#	Expiration	pH Check
Preserved Nutrients	☑ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☑ Ice ☑ H_2SO_4	SA8344070	12/10/19	☑ <2
Metals	☑ W-ICPMS ☐ W-ICP	☑ Ice ☑ HNO_3	NA8344050	12/10/19	☑ <2
Filtered Nutrients	☑ W-PO4-F ☑ Field Filtered 0.45 µm Filter	☑ Ice			
Chlorophyll	☑ CHLSUITE-W	☑ Ice			
Physical/Aggregate (Fresh)	☑ Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS	☑ Ice			
Physical/Aggregate (Marine)	☐ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates	☐ MI-FW-QLDC	☐ Formalin			
Periphyton	☐ ALGAE-ID	☐ Ice			
Microbiology	☐ E Coli ☐ F Coli ☐ Enterococci	☐ Ice			
Molecular	☐ PCR-FILTER ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-HF183 ☐ PCR-DG3 ☐ PCR-GFD	☐ Ice			
Tracers	☑ W-E8321-DI ☑ W-E8321-MS	☑ Ice			
Pesticides	☑ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-E8321-DI ☐ W-PCL-SQ-R ☐ WE8321-MS ☐ W-CARB-AA	☑ Ice			
Phytoplankton	☐ DTY-QN-C ☐ PKD-QN-C	☐ Ice			

Contains: 1:1 H_2SO_4 Lot No.: SA8344070 Expires: 12/10/19 See Safety Data Sheet (SDS)

Contains: 1:1 HNO_3 Lot No: NA8344050 Expires: 12/10/19 See Safety Data Sheet (SDS)



Notes:

Field ID/WIN ID G1SD0070

Location Manuel Branch @ Park

Signature: _____ **Date:** 05/08/2019

LIMS EVENT ID: WQAP-2019-05-10-05 **WIN Import ID:** _____

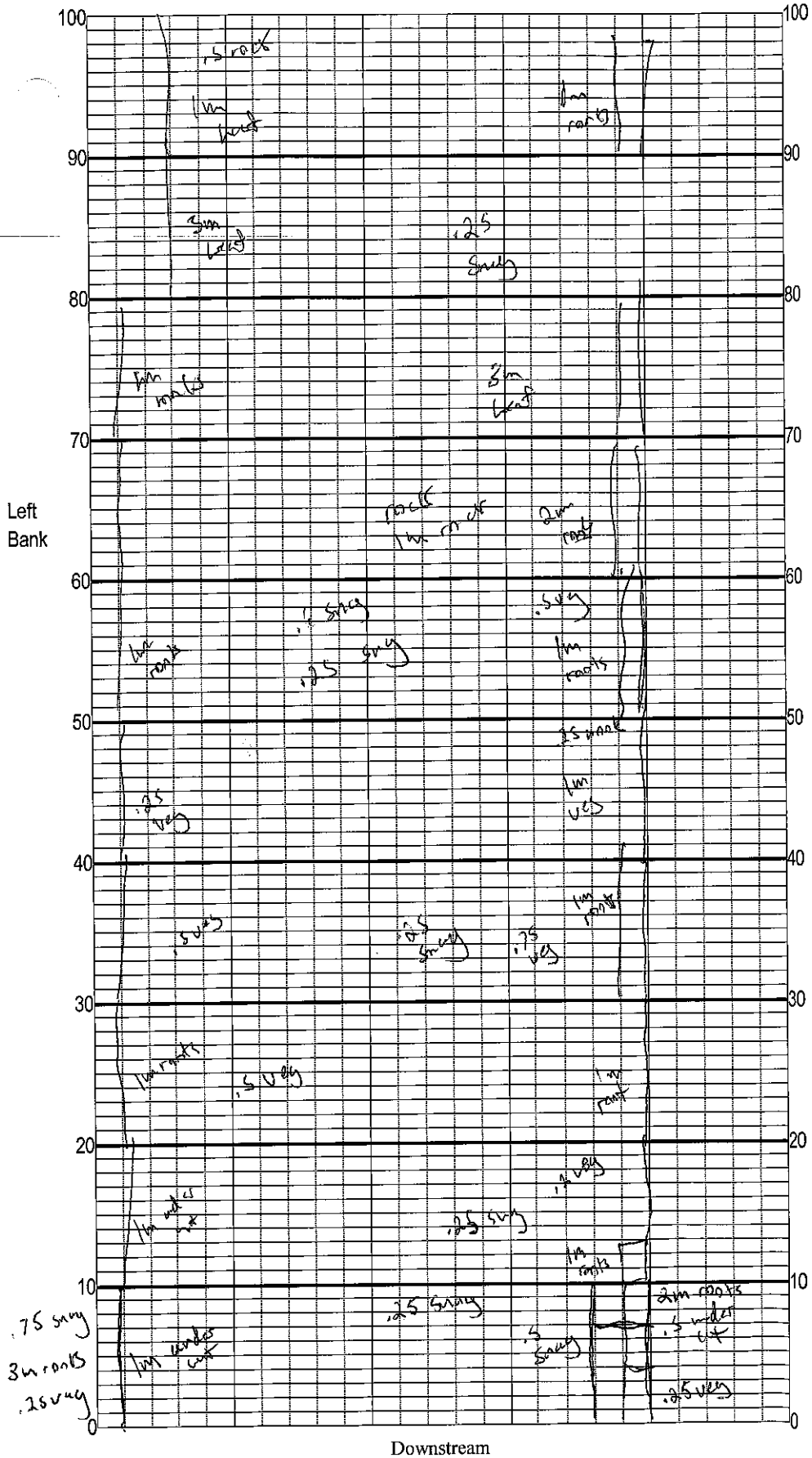
Enter Field Parameters, Verify Station ID In LIMS DMT: AR 05/24/19 (Initials/Date) **QC Station ID, Field Parameters In LIMS DMT:** _____ (Initials/Date)

Scan/Save Field Sheets: AR 05/24/19 (Initials/Date) **Migrate Data to WIN:** _____ (Initials/Date) **Verify Data In WIN:** _____ (Initials/Date)

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

Field ID/WIN ID: G1SD0070

Location: Manuel Branch @ Park



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

Date: 05/09/2019

Sampler: Gary Snorek

100 m:	Latitude	26.626301668
	Longitude	-81.87936456
0 m:	Latitude	26.62688334
	Longitude	-81.87990570

Substrates: Code key, draw proportionate habitat abundance.

		%
2.5	Snags	1
16	Roots/undercut banks	6
7	Leaf Packs (or mats)	3
3.25	Aquatic Macrophytes	1.3
2	rocks	1
0	Pools	total # observed = ____ # range expected = ____

Average width 4 m

Average depth .6 m

Velocity measured at 0/100 meter mark.

WQ & chemistry taken at 0 meter mark.

Habitat Smothering:
Note areas (on map) where sand or silt is smothering substrates, limiting habitability.

Bank Stability:
Note areas (on map) with unstable, eroding banks.

Riparian Buffer Width:
Note areas (on map) where natural vegetation is altered or eliminated.

Plants observed / other notes:

26 seconds 0m .038

4.5 0m

0.8m

Field ID/WIN ID

DEP Form Location G1SD0070 **Field Sheet**

SAMPLING AGENCY:		DATE (MM/DD/YY):	RECEIVING BODY OF WATER:
7DEP-SQROC	Manuel Branch @ Park	05/09/19	Caloosahatchee
REMARKS:	COUNTY: Lee	LOCATION:	FIELD ID/NAME:

Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components **Substrate Diversity** 19	Four or more major productive habitats present [snags, tree roots, aquatic vegetation, leaf packs (partially decayed), rock] 20 (19) 18 17 16	Three major productive habitats present. Adequate habitat. Some substrates may be new fall (fresh leaves or snags) 15 14 13 12 11	Two major productive habitats present. Less than desirable habitat, frequently disturbed or removed 10 9 8 7 6	One or less major productive habitat. Lack of habitat is obvious, substrates unstable or smothered 5 4 3 2 1
Substrate Availability 8	Greater than 30% major productive habitat present at site 20 19 18 17 16	16% to 30% major productive habitat, by aerial extent 15 14 13 12 11	6% to 15% major productive habitat 10 9 (8) 7 6	Less than 5% major productive habitat 5 4 3 2 1
Water Velocity 4 3 NR	Max. observed at typical transect: > 0.25 m/sec. But < 1 m/sec ≥0.33 0.31 0.29 0.27 >0.25 20 19 18 17 16	Max. observed at typical transect: >0.1 to 0.25 m/sec 0.25 0.21 0.17 0.13 >0.1 15 14 13 12 11	Max. observed at typical transect: 0.05 to 0.1 m/sec 0.1 0.09 0.07 0.06 0.05 10 9 8 7 6	Max. observed at typical transect: <0.05 m/sec; or spate occurring: > 1 m/sec <0.05 0.04 0.03 0.01 <0.01 NR 5 4 (3) 2 (1)
Habitat Smothering 1 Primary Score 27 31 NR	Adequate number of stable pools (1-2 per 12 times width) and <25% of habitats affected by sand, silt, or algae. 20 19 18 17 16	Adequate number of stable pools (1-2 per 12 times width) and >25% of habitats affected by sand, silt, or algae. 15 14 13 12 11	Does not have required number of stable pools (1-2 per 12 x width) and/or has shallow pools (<2 x prevailing depth). 10 9 8 7 6	Stable pools are absent. Most habitats affected by sand, silt, or algae accumulation. 5 4 3 2 (1)
Secondary Habitat Components **Artificial Channelization** 15	Expected sinuosity given the stream width. No evidence of dredging or artificial straightening. No spoil banks. 20 19 18 17 16	Good sinuosity within old channelized area. Evidence of dredging or straightening in the past (>25 yrs) but mostly recovered. (15) 14 (13) 12 11	Straightened with trapezoidal cross section, but has a small degree of sinuosity developed within channelized area. 10 9 8 7 6	Straightened or engineered by dredging, has trapezoidal or box cut cross section, lacks required pools. May have spoil banks. 5 4 3 2 1
Bank Stability Right Bank 9 Left Bank 8	Bankfull > 60% of bank height. Slope of bank ≤ 60° from bankful to top of bank. Bankfull is within or above the woody root zone with few raw, eroded areas. 10 (9) R	Only meets 2 of the 3 requirements for optimal bank stability. (8) L 7 6	Only meets 1 of the 3 requirements for optimal bank stability. 5 4	Bankfull < 60% of bank height. Slope of bank > 60°. Bankfull is below the woody root zone with raw, eroded areas. 3 2 1
Riparian Buffer Zone Width Right Bank 1 Left Bank 1	Width of vegetation greater than 18 m 10 9	Width of vegetation >12 to 18m 8 7 6	Width of vegetation 6 to 12 m. human activities close to system 5 4	Less than 6 m of buffer zone due to intensive human activities L K 3 (2) (1)
Riparian Zone Vegetation Quality Right Bank 2 Left Bank 2 Secondary Score 39	Over 80% of riparian surfaces consist of normal, expected plant community for given sunlight & habitat conditions (e.g., native plants; tree, shrub, and forbs represented, if appropriate). Minimal disturbance. 10 9	>50% to 80% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Some disruption in community observed. 8 7 6	25% to 50% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Disruption obvious. 5 4	Less than 25% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). L,R 3 (2) (1)

NR 68 70 **TOTAL SCORE**

Date:	Analyst:	Signature:
05/09/2018	Gary Snorek, John Barrington, Nicole Reistad, Chase Conley	

62-160.800, F.A.C. Revision Date: January 2017

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

SAMPLE ID _____ Field ID/WIN ID G1SDC070

COUNTY _____ Location

DATE _____

S AME _____ Manuel Branch @ Park

FIELD ID/NAME _____

LATITUDE 26.626159

LONGITUDE -81.86812

SAMPLING AGENCY FDEP - SOROC

RECEIVING BODY OF WATER Caloosahatchee River

RIPARIAN ZONE / STREAM FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category) :

Forest/Natural	Silviculture	Field/Pasture	Agricultural	Residential	Commercial	Industry	Other (Specify)
				60	~~25~~ 30 NR	10	

Landscape Development Intensity Index (LDI) X

Local Watershed Erosion (select one) : ☐ None ☒ Slight ☐ Moderate ☐ Heavy

Local Watershed NPS Pollution : ☒ No evidence ☐ Slight ☐ Moderate ☐ Heavy

Width of Riparian Vegetation (m) on Each Buffer Side

Left Bank : ~~5~~ 3 NR Right Bank : ~~21~~ 1 NR

Hydrologic Modification Score (per FT 3101) X

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

4 m wide

m/s	0.038 m/s	m/s
m deep	1.3 m deep	m deep

High Water Mark: (m) + (above present water level) = (present depth) (above bed)

Artificially Impounded ☐ Yes ☒ No

Artificially Channelized : ☒ No ☐ Some recovery ☐ Mostly recovered, more sinuous ☐ Recent, severe

Canopy Cover % ☐ Open ☐ Lightly Shaded (11-45%) ☒ Heavily Shaded ☐ Moderate Shaded (46-80%)

SEDIMENT / SUBSTRATE

Sediment Oils ☒ Absent ☐ Slight ☐ Moderate ☐ Profuse

Sediment Odors ☒ Normal ☐ Sewage ☐ Petroleum ☐ Chemical ☐ Anaerobic ☐ Other (Specify) :

Smothering of Substrates

Sand Smothering:	None ☐	Slight ☒	Moderate ☐	Severe ☐
Silt Smothering:	None ☐	Slight ☐	~~Moderate~~ NR	☒	Severe ☒
Algae Smothering:	None ☒	Slight ☐	Moderate ☐	Severe ☐

BSTRATE TYPE X

Assessment Tool: ☐ SCI ☐ RPS ☐ LVS ☐ LCI ☐ BioRecon

	% Coverage	INVERT # Times Sampled	PERI # Times Sampled
Woody Debris (Snags)			
Undercut Banks / Roots			
Leaf Packs or Mat			
Aquatic Vegetation			
Rock or Shell Rubble..			
Sand.....			
Mud / Muck / Silt			
Other			
Other			

ABUNDANCE

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

WATER QUALITY

	Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat (%)	Cond. (UMHO/CM)	Salinity (PPT)	SECCHI (M)
Top :	0.3	26.5	7.18	2.36	29.4	1081	0.54	1.3
Mid:								☒ VOB
Bottom								TOTAL DEPTH
								1.3

Meter ID: SNEK

Water Odors Normal ☒ Petroleum ☐ Sewage ☐ Chemical ☐ Other ☐

Water Surface Oils Normal ☒ Sheen ☐ Globs ☐ Slick ☐ Other ☐

Water Sample Taken? ☒ Yes ☐ No

Sample Preserved? ☒ Yes ☐ No

Lot Number: SA83A070 Exp: 12/10/19

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

Algae Sample Taken? ☐ Yes ☒ No

Sample Preserved? ☐ Yes ☒ No

Lot Number: _____ Exp: _____

Clarity Clear ☐ Slightly Turbid ☒ NR Turbid ☐ Opaque ☐

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

AMBIENT FIELD CONDITIONS / NOTES:

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

SAMPLING TEAM

Nicole Reistad, John Barrington, Gary Snorek, Chase Conley

SIGNATURE :

DATE : 05/24/2019

62-160.800, F.A.C.

Revision Date: January 2017

Field ID/WIN ID

G1SD0070

Location

Manuel Branch @ Park

9000-25 Rapid Periphyton Survey Field Sheet

Site: Manuel Branch | County: Lee | Date: 05/09/19 | Investigators: Nicole Reistad

STORET Station Number: G1SD0070

Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover
0	1	N	N	
	2			
	3			
	4			
	5			96
	6			
	7			
	8			
	9	N	N	
10	1	N	N	
	2			
	3			
	4			
	5			67
	6			
	7			
	8			
	9	N	N	
20	1	N	N	
	2			
	3			
	4			
	5			165
	6			
	7			
	8			
	9	N	N	
30	1	N	N	
	2			
	3			
	4			
	5			~~58~~ NP
	6			
	7			
	8			
	9	N	N	
40	1	N	N	
	2			
	3			
	4			
	5			71
	6			
	7			
	8			
	9	N	N	
50	1	N	N	
	2			
	3			
	4			
	5			96
	6			
	7			
	8			
	9	N	N	

Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover
60	1	N	N	
	2			
	3			
	4			
	5			96
	6			
	7			
	8			
	9	N	N	
70	1	N	N	
	2			
	3			
	4			
	5			96
	6			
	7			
	8			
	9	N	N	
80	1	N	N	
	2			
	3			
	4			
	5			96
	6			
	7			
	8			
	9	N	N	
90	1	N	N	
	2			
	3			
	4			
	5			84
	6			
	7			
	8			
	9	N	N	
100	1	N	N	
	2			
	3			
	4			
	5			96
	6			
	7			
	8			
	9	N	N	

Secchi depth	1.3
Estimated?	N

# points ranked 4-6	0
total points assessed	99
% points ranked 4-6	0

Check accompanying data collected at same site/date.	
Algal mat sample	
Linear Veg Survey	✓
Habitat Assessment	✓
SCI/Biorecon	✓
Water sample	✓

RQ- 2019-05-06-73

Algal Thickness Rank	
N	rough, no algae, slimy, algae up to 1mm
3	>1mm - 6mm
4	>6mm - 20mm
5	>20mm - 10 cm
6	>10 cm

Record "N" and check "Estimated" for points deeper than the Secchi depth; algae are presumed absent. Check "Estimated" if thickness estimated for deep points which can be seen but not reached.

Record "X" for points shallower than Secchi depth for which substrate cannot be seen or reached with the hand. No estimated rank.

Record canopy cover as the number of small densiometer quadrants (out of 96) that HAVE canopy cover. Measure facing upstream at point 4, 5, or 6.

Collect algal mat sample following DEP SOP FS 7240 if the percentage of total sampled points with a thickness rank of 4, 5, or 6 is >20%.

Location

G1SD0070

DEP FORM FD 9000-32: LINEAR VEGETATION SURVEY FIELD

Manuel Branch @ Park

Date: 5/9/19 | County: LEE | Waterbody: MANUEL BRANCH

Analyst: JOHN BARRINGTON | 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^2 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. **bold is exotic invasive**

HERBACEOUS SPECIES	Meter Mark 0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	Specimen collected (check)
Alternanthera philoxeroides	P	P	P	P	P	P	P	P	P	P	
Bacopa caroliniana											
Bacopa monneri											
Bidens mitis											
Boehmeria cylindrica											
Centella asiatica											
Ceratophyllum demersum											
Chara sp.											
Cicuta maculata											
Cladium jamaicense											
Colocasia esculenta											
Commelina diffusa											
Commelina virginica											
Crinum americanum											
Cyperus											
Diodia virginiana											
Eichhornia crassipes											
Eleocharis (wispy viviparous)											
Hydrilla verticillata											
Hydrocotle sp.					P	P	P	P	P	P	
Hygrophila polysperma											
Hymenachne amplexicaulis											
Hymenocallis											
Lachnanthes caroliniana											
Landoltia punctata											
Lemna sp.											
Limnophila sessiflora											
Ludwigia leptocarpa											
Ludwigia palustris											
Ludwigia peruviana				P							
Ludwigia repens											
Luziola fluitans											
If no Dominant or Co-Dominant were selected, Indicate with "X"											
Indicate % cover macrophytes per section											
0-5% Macrophyte Coverage	X	X	X	X	X	X	X	X	X	X	
>5 and ≤10% Macrophyte Coverage											
>10 and ≤25% Macrophyte Coverage											
>25 and ≤50% Macrophyte Coverage											
> 50% Macrophyte Coverage											

HERBACEOUS SPECIES	Meter Mark 0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	Specimen collected (check)
Micranthemum glomeratum											
Micranthemum umbrosum											
Myriophyllum aquaticum											
Najas guadelupensis											
Nuphar luteum											
Orontium aquaticum											
Panicum hemitomon											
Panicum repens											
Panicum rigidulum											
Pistia stratioides											
Polygonum glabra											
Polygonum hydropiperoides											
Polygonum punctatum											
Pontedaria cordata											
Potamogeton illinoensis											
Ruellia simplex								P			
Sacciolepis striata											
Sagittaria kurziana											
Sagittaria lancifolia	P	P		P						P	
Sagittaria latifolia											
Salvinia minima											
Samolus parviflora											
Saururus cernuus											
Sparganium americanum											
Sphagneticola trilobata (Wedelia)											
Typha sp.											
Urochloa mutica (Brachiaria)											
Vallisneria americana											
Zizania aquatica											
WEDILIA SP.	P		P	P	P	P					
ACROSTICHUM DANAEFOLIUM			P								
SYZYGIUM CUMINI				P				P			
PETUNDRIA VIRGINICA										P	
COSTUS WOODSONII										P	
↑											

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: SNEK RQ- 2019-05-06-73 Project: SCI: Manuel Branch

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 03/19/19

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp °C	Baro-meter mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	N. Reistad	05/09/19	0718	26.0	755.7	8.06	8.08	99.4		1.170587	P / F	L / F
ICV	"	"	0919	25.9	755.7	8.07	8.10	99.6			P / F	L / F
CCV	Chase Conley	5/9/19	1530	24.0	753.5	8.30	8.41	99.8			P / F	L / F
CCV											P / F	L / F

DO Acceptance criteria from Table ± 0.3 mg/L. **Rapid-Pulse Sensors:** DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.
Optical: DO gain range 0.85 to 1.15 (Pro DSS 0.75 to 1.50); DO charge N/A. **Steady-state & Galvanic Sensors:** DO Gain & Charge N/A.

Spec. Cond. FT 1200	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	N. Reistad	05/09/19	0723	2904947	03/21	1000	1000	P / F	L / F
ICV	"	"	0725	2810C41	10/20	500	499	P / F	L / F
CCV	Chase Conley	5/9/19	1532	2811E60	11/20	50000	50801	P / F	L / F
CCV								P / F	L / F

Conductivity Acceptance criteria ± 5%

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	N. Reistad	05/09/19	0727	187681	11/20	7.6994	26.4	7.00	-32.2	P / F	L / F
Calibr.	"	"	0730	190072	01/21	4.012	26.5	4.01	151.4	P / F	L / F
Calibr.	"	"	0732	187680	12/20	10.9994	26.5	9.99	-207.1	P / F	L / F
ICV	"	"	0735	190072	01/21	4.011	26.3	4.00		P / F	L / F
CCV	Chase Conley	5/9/19	1535	187680	12/20	10.0	24.7	9.98		P / F	L / F
CCV										P / F	L / F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50; mV pH 4 Range +180 ± 50; mV pH 10 Range -180 ± 50;
If mV are recorded: slope from 7 to 10 _____, slope from 4 to 7 _____ (both must be between 165 and 180 mV)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)
If **YES**, complete daily Calibr. & ICV below and list date of last quarterly depth verification: _____
If **NO**, what will be used? (circle one) **Secchi Disk Line / Sonar** Unique ID: 3212B ; Date of last verification: 12/26/18

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

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

COMMENTS: