



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

April 2018

Data Qualified?

Yes / No

VIN Station Name: Alligator Creek (S. Prong)

Date: 11/28/2018

(mm/dd/yyyy)

WIN/ Field ID: G2SD0033

WBID: 2074

Latitude: 26.884536

County: Charlotte

ORG ID:

Longitude: -81.978522

(Decimal Degrees)

Receiving Body of Water: Charlotte Harbor

RQ-2018- 11-26-79

(Decimal Degrees)

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment	
						☒ Sample Container	☐ Van Dorn ☐ Pole
						☐ Carboy	☒ Syringe
						☐ Dipper	☐ Other
Steve Cofone						Depth Measured with <u>Secchi</u>	
Gary Snorek						Equipment ID <u>Deaton River</u>	
John Barrington						Collection Method	
						☒ Wading	☐ Canoe/Kayak
						☐ From Shore	☐ Electric Motor
						☐ Other	☐ Gasoline Motor

Water Level: Dry/ Pooled/ Low / Normal / High / Flooded

Meter ID# k245

Matrix: Fresh / Marine / DI

Photos: Yes / No

Flow: No Flow / Intestinal / 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 (PPT)	Sp COND (umhos/cm)	Temp. (C°)
EST	1208	0.3	0.15	0.3	7.59	77.4	6.85	0.14	288	17.52
CEN										

Biological Samples Collected: None HA SCI RPS Algae ID LVS LVI Other:

SBIO ID Numbers: SBIO-ID: 29075 HA-ID: 15522 RPS-ID: 9171 Macrophyte-ID: NA LIMS#:

Parameter Suite	Parameter Methods	Preservation	Lot#	Expiration	pH Check
Preserved Nutrients	☒ W-NH3 / ☒ W-NO2NO3 / ☒ W-TKN / ☒ W-TOC / ☒ W-S-A-TP	☒ Ice ☒ H2SO4			☒ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3			☐ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 um 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-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-HF183 ☐ PCR-BacR ☐ PCR-GULL2 ☐ 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 ☐ W-E8321-MS ☐ W-CARB-AA	☐ Ice ☐ Other			

Notes:

Field ID/WIN ID: G2SD0033

Location: Alligator S@JonesLoopRd

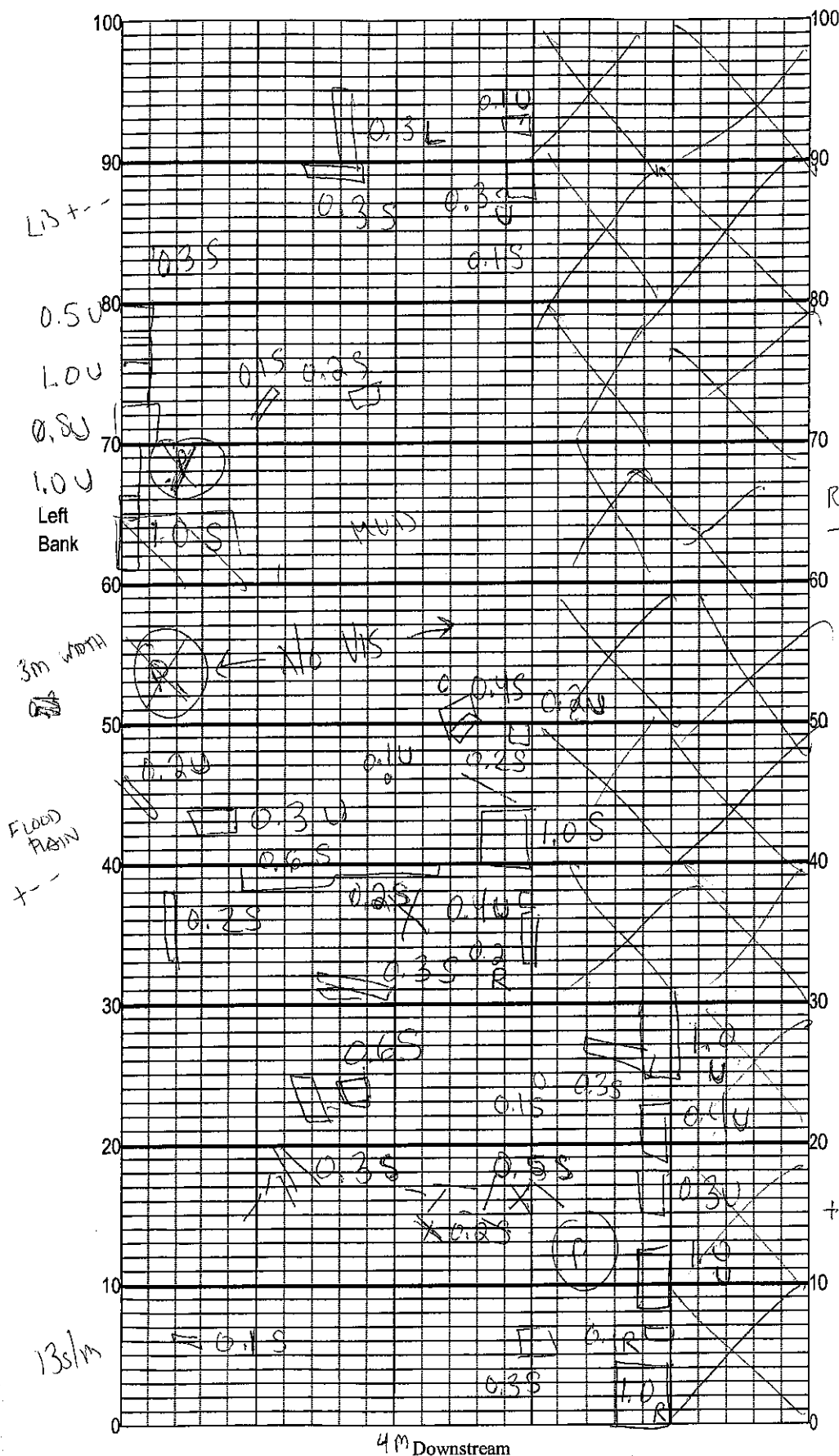
Signature: [Signature]

Date: 11/28/17

Enter Field Parameters, Verify Station ID in LIMS DMT: 12/04/18 QC Station ID, Field Parameters in LIMS DMT: 12/04/18

Scan/Save Field Sheets: 12/04/18 Migrate Data to WIN: 12/04/18 Verify Data in WIN: 12/04/18

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



Location: SOUTH PRONG
ALLIGATOR CREEK

Date: 11/26/18

Sampler: JOHN BARRINGTON

100 m: Latitude	<u>26.884236</u>
Longitude	<u>-81.978169</u>
0 m: Latitude	<u>26.884536</u>
Longitude	<u>-81.978522</u>

Substrates:	Code key, draw proportionate habitat abundance.	%
S	Snags	<u>1.85</u>
U	Roots/undercut banks	<u>1.75</u>
L	Leaf Packs (or mats)	<u>0.08</u>
	Aquatic Macrophytes	<u> </u>
R	<u>ROCKS</u>	<u>0.4</u>
	<u> </u>	<u> </u>
P	Pools total # observed = <u>1</u> # range expected = <u>2-4</u>	

Average width 4 m
Average depth 0.4 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:

$$S = 7.4 \text{ m}^2$$

$U = 4.7 \text{ m}^2$

$L = 0.3 \text{ m}^2$

$$R = 1.6 \text{ m}^2$$
 400 m^2

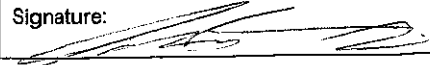
DEP Form FD 9000-5 Stream/River Habitat Assessment Field Sheet

SAMPLING AGENCY: FDEP SOROC		STORET STATION NUMBER: G2SD0033	DATE (MM/DD/YY): 11/28/18	RECEIVING BODY OF WATER: CHARLOTTE HARBOR
REMARKS:	COUNTY: LE CHARLOTTE	LOCATION: SOUTH PRONG ALLIGATOR CREEK	FIELD ID/NAME: G2SD0033	

Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components Substrate Diversity <u>10</u>	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 <u>10</u> 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 <u>3</u>	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 <u>3</u> 2 1
Water Velocity <u>4</u>	Max. observed at typical transect: > 0.25 m/sec. But < 1 m/sec ≥0.33 0.31 0.29 0.27 >0.25 20 19 18 17 16	Max. observed at typical transect: >0.1 to 0.25 m/sec 0.25 0.21 0.17 0.13 >0.1 15 14 13 12 11	Max. observed at typical transect: 0.05 to 0.1 m/sec 0.1 0.09 0.07 0.06 0.05 10 9 8 7 6	Max. observed at typical transect: <0.05 m/sec; or spate occurring: > 1 m/sec <0.05 0.04 0.03 0.01 <0.01 5 <u>4</u> 3 2 1
Habitat Smothering <u>5</u> ----- Primary Score <u>22</u>	Adequate number of stable pools (1-2 per 12 times width) and <25% of habitats affected by sand, silt, or algae. 20 19 18 17 16	Adequate number of stable pools (1-2 per 12 times width) and >25% of habitats affected by sand, silt, or algae. 15 14 13 12 11	Does not have required number of stable pools (1-2 per 12 x width) and/or has shallow pools (<2 x prevailing depth). 10 9 8 7 6	Stable pools are absent. Most habitats affected by sand, silt, or algae accumulation. <u>5</u> 4 3 2 1
Secondary Habitat Components Artificial Channelization <u>13</u>	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 <u>13</u> 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 <u>3</u> Left Bank <u>6</u>	Bankfull > 60% of bank height. Slope of bank ≤ 60° from bankfull to top of bank. Bankfull is within or above the woody root zone with few raw, eroded areas. 10 9	Only meets 2 of the 3 requirements for optimal bank stability. 8 7 <u>6</u>	Only meets 1 of the 3 requirements for optimal bank stability. JTB R <u>5</u> <u>4</u>	Bankfull < 60% of bank height. Slope of bank > 60°. Bankfull is below the woody root zone with raw, eroded areas. RJB <u>3</u> 2 1
Riparian Buffer Zone Width Right Bank <u>5</u> Left Bank <u>7</u>	Width of vegetation greater than 18 m 10 9	Width of vegetation >12 to 18m L 8 <u>7</u> 6	Width of vegetation 6 to 12 m. human activities close to system R <u>5</u> 4	Less than 6 m of buffer zone due to intensive human activities 3 2 1
Riparian Zone Vegetation Quality Right Bank <u>5</u> Left Bank <u>6</u> ----- Secondary Score <u>45</u>	Over 80% of riparian surfaces consist of normal, expected plant community for given sunlight & habitat conditions (e.g., native plants; tree, shrub, and forbs represented, if appropriate). Minimal disturbance. 10 9	>50% to 80% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Some disruption in community observed. L 8 7 <u>6</u>	25% to 50% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Disruption obvious. RR <u>5</u> 4	Less than 25% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). 3 2 1

68

TOTAL SCORE

Date: 11/28/18	Analyst: JONAI BARRINGTON	Signature: 
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CHEMICAL CHARACTERIZATION FIELD SHEET

RQ-2018-10-07-72

Date: 1/2/34



User Defined Space.
Location, directions,
samplers, whatever...

FILE ID: RQ-2018-11-26-79
COUNTY: CHARLOTTE
DATE: 11/28/2018
SAMPLING AGENCY: SRUC
TIME: 1208
SITE NAME: Alligator 2074 S. Prong
FIELD ID/NAME: G2800033

ORG ID

RECEIVING BODY OF WATER: CHARLOTTE HARBOR

RIPARIAN ZONE / STREAM FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category): Forest/Natural <u>35</u> Silviculture <u>5</u> Field/Pasture <u>30</u> Agricultural <u>30</u> Residential <u>30</u> Commercial <u>30</u> Industry <u>30</u> Other (Specify) <u>30</u>							Landscape Development Intensity Index (LDI) <u> </u>
Local Watershed Erosion (select one): ☒ None ☐ Slight ☐ Moderate ☐ Heavy Local Watershed NPS Pollution: ☒ No evidence ☐ Slight ☐ Moderate ☐ Heavy							Typical Width (m) Depth (m)/Velocity (m/sec) Transect <u>4.0</u> m wide <u>0.04</u> m/s <u>0.4</u> m deep
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank: <u>14</u> Right Bank: <u>7</u> Hydrologic Modification Score (per FT 3101) <u> </u>							
High Water Mark: <u> </u> + <u> </u> = <u> </u> (m) (above present water level) (present depth) (above bed)							Artificially Impounded ☐ Yes ☐ No
Artificially ☐ No ☒ Mostly recovered, more sinuous Channelized: ☐ Some recovery ☐ Recent, severe							
Canopy Cover % ☐ Open ☐ Lightly Shaded (11-45%) ☐ Heavily Shaded ☒ Moderate Shaded (46-80%)							

SEDIMENT / SUBSTRATE

Sediment Oils ☒ Absent ☐ Slight ☐ Moderate ☐ Profuse	Sediment Odors ☒ Normal ☐ Sewage ☐ Petroleum ☐ Chemical ☐ Anaerobic ☐ Other (Specify): <u> </u>	Smothering of Substrates Sand Smothering: None ☐ Slight ☒ Moderate ☐ Severe ☐ Silt Smothering: None ☐ Slight ☒ Moderate ☐ Severe ☐ Algae Smothering: None ☐ Slight ☐ Moderate ☐ Severe ☐
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SUBSTRATE TYPE

Assessment Tool: ☐ SCI ☒ RPS ☒ LVS ☐ LCI ☐ BioRecon	INVERT % Coverage <u>1.85</u> # Times Sampled <u> </u>	PERI # Times Sampled <u> </u>
Woody Debris (Snags)	<u>1.85</u>	<u> </u>
Undercut Banks /Roots	<u>1.175</u>	<u> </u>
Leaf Packs or Mat	<u>0.08</u>	<u> </u>
Aquatic Vegetation	<u> </u>	<u> </u>
Rock or Shell Rubble	<u>0.4</u>	<u> </u>
Sand/Silt	<u> </u>	<u> </u>
Sand/Gravel	<u> </u>	<u> </u>
Mud/Muck/Silt	<u> </u>	<u> </u>
Other	<u> </u>	<u> </u>

WATER QUALITY

Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. (%)	Cond. (UMHO/CM)	Salinity (PPT)	SECCHI (M)
Top: <u>0.15</u>	<u>17.82</u>	<u>6.85</u>	<u>7.59</u>	<u>77.0</u>	<u>298</u>	<u>0.14</u>	<u>0.3</u>
Mid: <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Bottom: <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Meter ID: <u>KEYS</u> Meter Verify: ☒ Y ☐ N							
Water Odors Normal ☒ Petroleum ☐ Sewage ☐ Chemical ☐ Other ☐				Water Surface Oils Normal ☒ Sheen ☐ Globbs ☐ Slick ☐ Other ☐			
Water Sample Taken? ☒ Yes ☐ No Sample Preserved? ☒ Yes ☐ No Lot Number: <u>28274050</u> Exp: <u>10/01/19</u>				Color Tannic ☐ Green (Algae) ☐ Clear ☒ Other (Specify) ☐			
Algae Sample Taken? ☐ Yes ☒ No Sample Preserved? ☐ Yes ☐ No Lot Number: <u> </u> Exp: <u> </u>				Clarity Clear ☐ Slightly Turbid ☒ Turbid ☐ Opaque ☐			

ABUNDANCE

	Absent	Rare	Common	Abundant
Periphyton:	☒	☐	☐	☐
Fish:	☐	☒	☐	☐
Aquatic Plants:	☒	☐	☐	☐
Iron/Sulfur Bacteria:	☒	☐	☐	☐

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

WEATHER CONDITIONS / NOTES:

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

SAMPLING TEAM

STEVEN COHEN, Gary Shorek, John Barrington

SIGNATURE:

Mayann Jones

DATE:

12/27/2018

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

County: Orange Investigators: Desotche JB, SL, GS

Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover	Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover
0	1	2		0	60	1	2		96
	2	2				2	2		
	3	2				3	2		
	4	2				4	2		
	5	2				5	2		
	6	2				6	2		
	7	2				7	2		
	8	2				8	2		
	9	2				9	2		
10	1	2		40	70	1	2		96
	2	2				2	2		
	3	2				3	2		
	4	2				4	2		
	5	2				5	2		
	6	2				6	2		
	7	2				7	2		
	8	2				8	2		
	9	2				9	2		
20	1	2		20	80	1	2		96
	2	2				2	2		
	3	2				3	2		
	4	2				4	2		
	5	2				5	2		
	6	2				6	2		
	7	2				7	2		
	8	2				8	2		
	9	2				9	2		
30	1	2		56	90	1	2		60
	2	2				2	2		
	3	2				3	2		
	4	2				4	2		
	5	2				5	2		
	6	2				6	2		
	7	2				7	2		
	8	2				8	2		
	9	2				9	2		
40	1	2		96	100	1	2		78
	2	2				2	2		
	3	2				3	2		
	4	2				4	2		
	5	2				5	2		
	6	2				6	2		
	7	2				7	2		
	8	2				8	2		
	9	2				9	2		
50	1	2		52		1	2		
	2	2				2	2		
	3	2				3	2		
	4	2				4	2		
	5	2				5	2		
	6	2				6	2		
	7	2				7	2		
	8	2				8	2		
	9	2				9	2		

STORET Station Number:

62SD4433

Secchi depth 0.3
Estimated?

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

Check accompanying data collected at same site/date.

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

RQ-2618-11-26-79

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%.