



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2018

Data Qualified?

Yes / No

WIN Station Name: Shaw Still Branch upstream E College Blvd

Date: 04/30/2018
(mm/dd/yyyy)

WIN/ Field ID: G3NW0162

WBID: 658

Latitude: 30.534728

County: Okaloosa

ORG ID: 21FLPNS

Longitude: -86.453578

Receiving Body of Water: Swift Creek

RQ-2018- 0423-28

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Sampling Equipment					
☒ Sample Container ☐ Van Dorn ☐ Pole					
☐ Carboy ☒ Syringe					
☐ Dipper ☐ Other					
Depth Measured with _____					
Equipment ID _____					
Collection Method					
☒ Wading ☐ Canoe/Kayak					
☐ From Shore ☐ Electric Motor					
☐ Other ☐ Gasoline Motor					

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

Meter ID# 11359

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										
<u>CEN</u>	<u>1130</u>	<u>0.6</u>	<u>0.2</u>	<u>1.0</u>	<u>8.39</u>	<u>96.8</u>	<u>6.74</u>	<u>0.10</u>	<u>214</u>	<u>22.42</u>

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

SBIO ID Numbers: SBIO-ID: HA-ID: RPS-ID: Macrophyte-ID: 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	<u>7275010</u>	<u>6/2/18</u>	☐ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3			☐ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 um Filter	☒ Ice			
Chlorophyll	☒ CHL SUITE-W	☒ Ice			
Physical/Aggregate (Fresh)	☒ Alkalinity / ☒ W-F / ☒ W-TSS / ☒ TURBIDITY / ☒ W-CH-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 Coll ☐ F Coll ☐ Enterococci	☒ Ice			
Molecular	☐ PCR-FILTER ☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-GFD	☐ Ice			
Tracers	☐ W-SUC-AA-R ☐ W-UHERB-AA ☐ W-AHERB-AA	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-UHERB-AA ☐ W-AHERB-AA ☐ W-CARB-AA ☐ W-PCL-SQ-R ☐ W-PYR-AA-R ☐ W-GLYPH ☐ W-SUC-AA-R	☐ Ice ☐ Other			

Notes: K:TA
micron
SCI
RPS - not performed but needed

Field/WIN ID



G3NW0162

Location:

Shaw Still Branch upstream E College Blvd

Signature: [Signature]

Date: 4/30/18

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

Scan/Save Field Sheets _____ Migrate Data to WIN: _____ Verify Data In WIN: _____

SAMPLE ID 78355 ORG ID 21PLPUS LATITUDE 30.53507
COUNTY Oklahoma STORET # G3NW0162 LONGITUDE 86.45361
DATE 4/30/18 TIME 1130 SAMPLING AGENCY FOEP INWROC
SITE NAME Shaw Still Branch upstream E College Blvd
FIELD ID/NAME G3NW0162 RECEIVING BODY OF WATER Swift Creek

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category) :								Landscape Development Intensity Index (LDI) 	
Forest/Natural	Silviculture	Field/Pasture	Agricultural	Residential	Commercial	Industry	Other (Specify)		
Local Watershed Erosion (select one) : ☐ None ☒ Slight ☐ Moderate ☐ Heavy								Typical Width (m) Depth (m)/Velocity (m/sec) Transect	
Local Watershed NPS Pollution : ☒ No evidence ☐ Slight ☐ Moderate ☐ Heavy								1.0 m wide	
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank : >18 Right Bank : >18				Hydrologic Modification Score (per FT 3101) 3-4		0.26 m/s 0.26 m/s 0.26 m/s			
High Water Mark: + = (m) (above present water level) (present depth) (above bed)				Artificially Impounded ☐ Yes ☒ No		0.2 m deep 0.2 m deep 0.2 m deep			
Artificially Channelized : ☒ No		☐ Mostly recovered, more sinuous		Canopy Cover % ☒ Open		☐ Lightly Shaded (11-45%)			
☐ Some recovery		☐ Recent, severe		☐ Heavily Shaded		☐ Moderate Shaded (46-80%)			

Sediment Oils ☐ Absent ☐ Slight ☒ Moderate ☐ Profuse				Sediment Odors ☐ Normal ☐ Sewage ☐ Petroleum ☐ Chemical ☒ Anaerobic ☐ Other (Specify) :				Smothering of Substrates Sand Smothering: None ☐ Slight ☒ Moderate ☐ Severe ☐ Silt Smothering: None ☐ Slight ☐ Moderate ☒ Severe ☐ Algae Smothering: None ☐ Slight ☒ Moderate ☐ Severe ☐																																																																																										
SUBSTRATE TYPE Assessment Tool: ☒ SCI ☒ RPS ☐ LVS ☐ LCI ☐ BioRecon <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">% Coverage</th> <th style="text-align: center;">INVERT # Times Sampled</th> <th style="text-align: center;">PERI # Times Sampled</th> </tr> </thead> <tbody> <tr> <td>Woody Debris (Snags)</td> <td style="text-align: center;">3.2</td> <td style="text-align: center;">7</td> <td></td> </tr> <tr> <td>Undercut Banks / Roots</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Leaf Packs or Mat</td> <td style="text-align: center;">1</td> <td style="text-align: center;">2</td> <td></td> </tr> <tr> <td>Aquatic Vegetation</td> <td style="text-align: center;">16.7</td> <td style="text-align: center;">7</td> <td></td> </tr> <tr> <td>Rock or Shell Rubble..</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Sand.....</td> <td style="text-align: center;">89.1</td> <td style="text-align: center;">4</td> <td></td> </tr> <tr> <td>Mud / Muck / Silt</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Other</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Other</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>					% Coverage	INVERT # Times Sampled	PERI # Times Sampled	Woody Debris (Snags)	3.2	7		Undercut Banks / Roots				Leaf Packs or Mat	1	2		Aquatic Vegetation	16.7	7		Rock or Shell Rubble..				Sand.....	89.1	4		Mud / Muck / Silt				Other				Other				WATER QUALITY <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Depth (M)</th> <th style="text-align: center;">Temp. (°C)</th> <th style="text-align: center;">pH (SU)</th> <th style="text-align: center;">D.O. (MG/L)</th> <th style="text-align: center;">D.O. Sat (%)</th> <th style="text-align: center;">Cond. (UMHO/CM)</th> <th style="text-align: center;">Salinity (PPT)</th> <th style="text-align: center;">SECCHI (M)</th> </tr> </thead> <tbody> <tr> <td>Top :</td> <td style="text-align: center;">0.2</td> <td style="text-align: center;">22.42</td> <td style="text-align: center;">6.74</td> <td style="text-align: center;">8.39</td> <td style="text-align: center;">96.8</td> <td style="text-align: center;">214</td> <td style="text-align: center;">0.10</td> <td></td> </tr> <tr> <td>Mid:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>☒ VOB</td> </tr> <tr> <td>Bottom</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>TOTAL DEPTH</td> </tr> <tr> <td>Meter ID:</td> <td colspan="7" style="text-align: center;">113529</td> <td style="text-align: center;">0.3</td> </tr> </tbody> </table> <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; vertical-align: top;"> Water Odors Normal ☒ Petroleum ☐ Sewage ☐ Chemical ☐ Other ☐ </td> <td style="width:50%; vertical-align: top;"> Water Surface Oils Normal ☐ Sheen ☒ Globbs ☒ Slick ☒ Other ☐ </td> </tr> <tr> <td style="vertical-align: top;"> Water Sample Taken? ☒ Yes ☐ No Sample Preserved? ☒ Yes ☐ No Lot Number: 7275090 Exp: 10/2/18 </td> <td style="vertical-align: top;"> Color Tannic ☐ Green (Algae) ☐ Clear ☒ Other (Specify) ☐ </td> </tr> <tr> <td style="vertical-align: top;"> Algae Sample Taken? ☐ Yes ☒ No Sample Preserved? ☐ Yes ☐ No Lot Number: Exp: </td> <td style="vertical-align: top;"> Clarity Clear ☒ Slightly Turbid ☐ Turbid ☐ Opaque ☐ </td> </tr> </table>					Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat (%)	Cond. (UMHO/CM)	Salinity (PPT)	SECCHI (M)	Top :	0.2	22.42	6.74	8.39	96.8	214	0.10		Mid:								☒ VOB	Bottom								TOTAL DEPTH	Meter ID:	113529							0.3	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: 7275090 Exp: 10/2/18	Color Tannic ☐ Green (Algae) ☐ Clear ☒ Other (Specify) ☐	Algae Sample Taken? ☐ Yes ☒ No Sample Preserved? ☐ Yes ☐ No Lot Number: Exp:	Clarity Clear ☒ Slightly Turbid ☐ Turbid ☐ Opaque ☐
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SAMPLING TEAM Nathan Mulkey / Stephen J. Jelle				SIGNATURE : [Signature]				DATE : 4/30/18																																																																																										
AMBIENT FIELD CONDITIONS / NOTES: ☒ The antecedent hydrologic conditions have been met to my best knowledge.																																																																																																		

Storage: G3NWΦ162

Date: 4/30/18
 Sampler: Nathan Walker

0 m: Latitude	30.53507
Longitude	86.45361

Substrates: Code key, draw proportionate habitat abundance.

☒ 3.2 Snags .16 3.2

☐ Roots/undercut banks

☐ Leaf Packs (pr mats) _____

 16.7 .84
Aquatic Macrophytes 16.7

--

total # observed =

☐ Pools # range expected =
 Average width 10 m

Average width 1.0 m

Average depth 0.2 m

Velocity measured at 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.

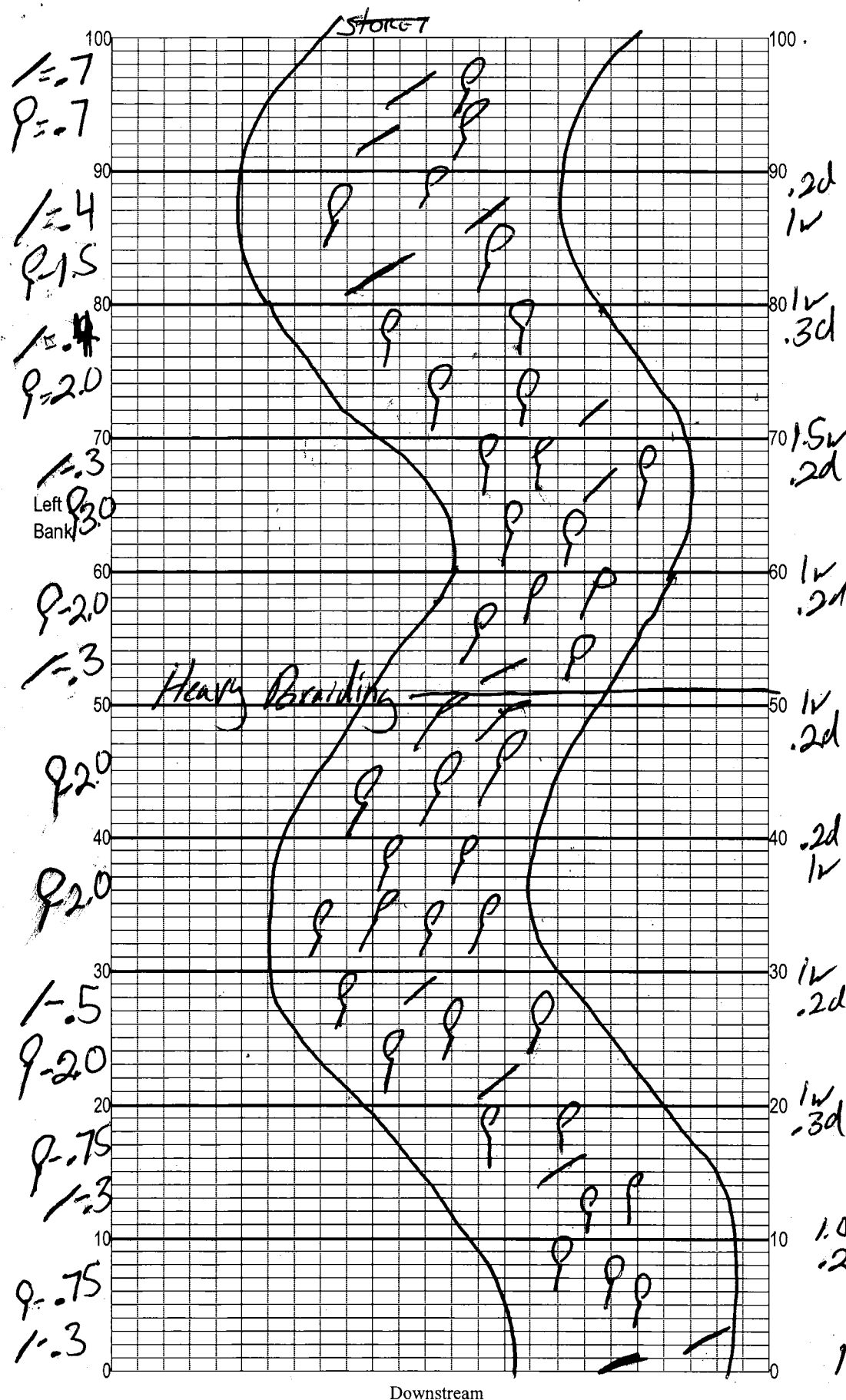
Riparian Buffer Width:
Note areas (on map) where natural vegetation
is altered or eliminated.

Plants observed / other notes:

*LVS to be performed at later date

1.0w
-2d

1.0w
-3d



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

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

SAMPLING AGENCY: <i>FOEP NWROC</i>		STORET STATION NUMBER: <i>G3NW0162</i>	DATE (MM/DD/YY): <i>04/30/18</i>	RECEIVING BODY OF WATER: <i>Swift Creek</i>
REMARKS: <i>needs LVS performed</i>	COUNTY: <i>Okauchosa</i>	LOCATION: <i>Shaw Still Branch</i>	FIELD ID/NAME: <i>G3NW0162</i>	

Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components	Four or more major productive habitats present (snags, tree roots, aquatic vegetation, leaf packs (partially decayed), rock)	Three major productive habitats present. Adequate habitat. Some substrates may be new fall (fresh leaves or snags)	Two major productive habitats present. Less than desirable habitat, frequently disturbed or removed	One or less major productive habitat. Lack of habitat is obvious, substrates unstable or smothered
Substrate Diversity <i>10</i>	20 19 18 17 16	15 14 13 12 11	<i>10</i> 9 8 7 6	5 4 3 2 1
Substrate Availability <i>13</i>	Greater than 30% major productive habitat present at site 20 19 18 17 16	16% to 30% major productive habitat, by aerial extent 15 14 <i>13</i> 12 11	6% to 15% major productive habitat 10 9 8 7 6	Less than 5% major productive habitat 5 4 3 2 1
Water Velocity <i>16</i>	Max. observed at typical transect: > 0.25 m/sec. But < 1 m/sec ≥0.33 0.31 0.29 0.27 >0.25 20 19 18 17 <i>16</i>	Max. observed at typical transect: >0.1 to 0.25 m/sec 0.25 0.21 0.17 0.13 >0.1 15 14 13 12 11	Max. observed at typical transect: 0.05 to 0.1 m/sec 0.1 0.09 0.07 0.06 0.05 10 9 8 7 6	Max. observed at typical transect: <0.05 m/sec; or spate occurring: > 1 m/sec <0.05 0.04 0.03 0.01 <0.01 5 4 3 2 1
Habitat Smothering <i>8</i> ----- Primary Score <i>47</i>	Adequate number of stable pools (1-2 per 12 times width) and <25% of habitats affected by sand, silt, or algae. 20 19 18 17 16	Adequate number of stable pools (1-2 per 12 times width) and >25% of habitats affected by sand, silt, or algae. 15 14 13 12 11	Does not have required number of stable pools (1-2 per 12 x width) and/or has shallow pools (<2 x prevailing depth). 10 9 <i>8</i> 7 6	Stable pools are absent. Most habitats affected by sand, silt, or algae accumulation. 5 4 3 2 1
Secondary Habitat Components	Expected sinuosity given the stream width. No evidence of dredging or artificial straightening. No spoil banks.	Good sinuosity within old channelized area. Evidence of dredging or straightening in the past (>25 yrs) but mostly recovered.	Straightened with trapezoidal cross section, but has a small degree of sinuosity developed within channelized area.	Straightened or engineered by dredging, has trapezoidal or box cut cross section, lacks required pools. May have spoil banks.
Artificial Channelization <i>18</i>	20 19 <i>18</i> 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Bank Stability	Bankfull > 60% of bank height. Slope of bank ≤ 60° from bankfull to top of bank. Bankfull is within or above the woody root zone with few raw, eroded areas.	Only meets 2 of the 3 requirements for optimal bank stability.	Only meets 1 of the 3 requirements for optimal bank stability.	Bankfull < 60% of bank height. Slope of bank > 60°. Bankfull is below the woody root zone with raw, eroded areas.
Right Bank <i>9</i> Left Bank <i>9</i>	10 9	8 7 6	5 4	3 2 1
Riparian Buffer Zone Width	Width of vegetation greater than 18 m	Width of vegetation >12 to 18m	Width of vegetation 6 to 12 m. human activities close to system	Less than 6 m of buffer zone due to intensive human activities
Right Bank <i>10</i> Left Bank <i>10</i>	10 9	8 7 6	5 4	3 2 1
Riparian Zone Vegetation Quality	Over 80% of riparian surfaces consist of normal, expected plant community for given sunlight & habitat conditions (e.g., native plants; tree, shrub, and forbs represented, if appropriate). Minimal disturbance.	>50% to 80% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Some disruption in community observed.	25% to 50% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Disruption obvious.	Less than 25% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions).
Right Bank <i>10</i> Left Bank <i>10</i> ----- Secondary Score <i>76</i>	10 9	8 7 6	5 4	3 2 1

123 TOTAL SCORE *\$B10 ID 78355. HA ID 15118*

Date: <i>4/30/18</i>	Analyst: <i>Nathan Miley</i>	Signature: <i>Nathan Miley</i>
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DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: Shaw Still Branch County: OKMUSA Date: 4/30/18 Investigators: Nathan Mulkey

Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover	Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover
0	1	N			60	1	N		
	2	N				2	N		
	3	N				3	N		
	4	N		11		4	N		
	5	N				5	N		31
	6	N				6	N		
	7	N				7	N		
	8	N				8	N		
	9	N				9	N		
10	1	N			70	1	N		
	2	N				2	N		
	3	N				3	N		
	4	N		7		4	N		
	5	N				5	N		27
	6	N				6	N		
	7	N				7	N		
	8	N				8	N		
	9	N				9	N		
20	1	N			80	1	N		
	2	N				2	N		
	3	N				3	N		
	4	N		13		4	N		
	5	N				5	N		38
	6	N				6	N		
	7	N				7	N		
	8	N				8	N		
	9	N				9	N		
30	1	N			90	1	N		
	2	N				2	N		
	3	N				3	N		
	4	N		9		4	N		
	5	N				5	N		20
	6	N				6	N		
	7	N				7	N		
	8	N				8	N		
	9	N				9	N		
40	1	N			100	1	N		
	2	N				2	N		
	3	N				3	N		
	4	N				4	N		
	5	N		11		5	N		30
	6	N				6	N		
	7	N				7	N		
	8	N				8	N		
	9	N				9	N		
50	1	N				1	N		
	2	N				2	N		
	3	N				3	N		
	4	N				4	N		
	5	N		11		5	N		
	6	N				6	N		
	7	N				7	N		
	8	N				8	N		
	9	N				9	N		

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

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

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

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

STORET Station Number:

G3NWO162

Secchi depth VOB
Estimated? N

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

Check accompanying data collected at same site/date.
Algal mat sample ☐
Linear Veg Survey ☐
Habitat Assessment ☒
SCI/Biorecon ☒
Water sample ☒
RQ 2018-0423-28

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

SB10 ID: 78355

RPS ID: 8984

[Handwritten signature]