



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

PAGE ____ OF ____

February 2016

Data Qualified?
Yes / No

STORET Station Name: MOSQTUNK Bio Ref Station- Mosquito Creek @CR-710

Date: 03/23/2016

(mm/dd/yyyy)

STORET Station ID: 26010408

Latitude: 27° 14' 12.9415"

(Decimal Degrees)

WBID: 3203B

RQ - 2016-03-21-55

ORG ID: 21FLWPB

Longitude: 80° 46' 51.1239"

(Decimal Degrees)

Receiving Body of Water: L-63 Canal

Field ID: 26010408_03232016

County: Okeechobee

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Jordan Skaggs				X		
Matt Sewell			X		X	
Rachel Brewster		X				
Tom Wipicki + Ashley Harlan						X

Sampling Equipment	
☒ Sample Container	☐ Van Dorn ☐ Pole
☐ Carboy	☐ Syringe
☐ Dipper	☐ Other
Equipment ID	

Collection Method	
☒ Wading	☐ Via Boat
☐ From Shore	☐ Canoe/Kayak
☐ Other (note below)	☐ Electric Motor
	☐ Gasoline Motor

Water Level: Dry / Low / <u>Normal</u> / High / Flooded		Matrix: <u>Fresh</u> / Marine / DI								
Meter ID# <u>L1GUS</u>	Photos: Yes / No	Tide Falling: Yes / No / <u>NA</u>								
Time Zone	Time	Sample Depth (m)	Total Depth (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (ppt)	Secchi Disk (m)	Sp COND (µmhos/cm)	Temp. (C°)
<u>EST</u>	<u>12:55</u>	<u>0.2</u>	<u>0.3</u>	<u>6.3</u>	<u>69</u>	<u>6.8</u>	<u>0.50</u>	<u>0.3(5)</u>	<u>981</u>	<u>18.9</u>
CEN										

Biological Samples Collected:		None	<u>HA</u>	<u>SCI</u>	<u>LVS</u>	<u>RPS</u>	LVI	Other
Parameter Suite	Parameter Methods	Preservation	Acid Lot#	Expiration	pH Check			
Preserved Nutrients	☒ W-NH3 / ☒ W-NO2NO3 / ☒ W-TKN / ☒ W-TOC / ☒ W-S-A-TP	☒ Ice ☒ H2SO4	<u>5259000</u>	<u>9/16</u>	☐ <2			
Metals	☒ W-ICPMS ☒ W-ICP	☒ Ice ☒ HNO3	<u>5113210</u>	<u>4/16</u>	☐ <2			
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice						
Chlorophyll	☒ CHLSUITE-W	☒ Ice						
BOD	☒ BOD-UNIN	☒ Ice						
Physical/Aggregate (Kit A/C)	☒ Alkalinity / ☒ W-F / ☒ W-TSS / ☒ TURBIDITY / ☒ W-CH-IC / ☒ W-COLOR / ☒ W-SO4-IC / ☒ W-TDS	☒ Ice						
Physical/Aggregate (Kit B/D)	☐ Alkalinity / ☐ W-F / ☐ W-TSS / ☐ TURBIDITY	☐ Ice						
Macroinvertebrates	☒ MI-FW-QLDC	☒ Formalin						
Microbiology	☒ E Coli ☒ F Coli ☒ Entero ☒ QPCR	☒ Ice						
Periphyton	☐ ALGAE-ID	☐ Ice						
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R	☐ Ice						
	☐ W-PC-AA-SF ☐ W-UHERB-AA ☐ W-GLYPH	☐ Other						
	<u>PCP</u>	<u>X Ice</u>						

Notes:

Secchi U.O.B.

Place Label Here
(If Available)

Signature:

Date:

3/23/2016

Field Parameters Entered into LIMS:

(Initials/Date)

Field Parameters QC in LIMS:

(Initials/Date)

Date Migrated to STORET:

(Initials/Date)

Field Sheets Scanned/Saved:

(Initials/Date)

SBIO 75915 75913

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

SAMPLE ID _____ ORG ID 2FI WPS LATITUDE _____
 COUNTY Oregon STORET # 26010401 LONGITUDE _____
 DATE _____ TIME _____ SAMPLING AGENCY 2FI WPS
 SITE NAME Moscow
 FIELD ID/NAME _____ RECEIVING BODY OF WATER L-63 canal

RIPARIAN ZONE / STREAM FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category): Forest/Natural <u>20</u> Silviculture _____ Field/Pasture <u>80</u> Agricultural _____ Residential _____ Commercial _____ Industry _____ Other (Specify) _____								Landscape Development Intensity Index (LDI) _____	
Local Watershed Erosion (select one): ☐ None ☒ Slight ☐ Moderate ☐ Heavy Local Watershed NPS Pollution: ☐ No evidence ☐ Slight ☒ Moderate ☐ Heavy						Typical Width (m) Depth (m)/Velocity (m/sec) Transect _____ m wide <u>4.0</u> m wide _____ m/s <u>0.17</u> m/s _____ m/s _____ m deep <u>0.3</u> m deep _____ m deep			
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank: <u>18+</u> Right Bank: <u>18+</u>				Hydrologic Modification Score (per FT 3101) _____					
High Water Mark: <u>0.5</u> + <u>0.3</u> = <u>0.8</u> (m) (above present water level) (present depth) (above bed)				Artificially Impounded ☒ Yes ☐ No					
Artificially ☒ No ☐ Mostly recovered, more sinuous Channelized: ☐ Some recovery ☐ Recent, severe				Canopy Cover % ☐ Open ☐ Lightly Shaded (11-45%) ☒ Heavily Shaded ☐ Moderate Shaded (46-80%)					

SEDIMENT / SUBSTRATE

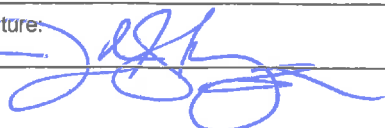
Sediment Oils ☒ Absent ☐ Slight ☐ Moderate ☐ Profuse			Sediment Odors ☒ Normal ☐ Sewage ☐ Petroleum ☐ Chemical ☐ Anaerobic ☐ Other (Specify): _____			Smothering of Substrates Sand Smothering: None ☐ Slight ☐ Moderate ☒ Severe ☐ Silt Smothering: None ☐ Slight ☐ Moderate ☒ Severe ☐ Algae Smothering: None ☐ Slight ☒ Moderate ☐ Severe ☐																																																																														
SUBSTRATE TYPE Assessment Tool: ☐ SCI ☒ RPS ☒ LVS ☐ LCI ☐ BioRecon <table border="1"> <thead> <tr> <th></th> <th>% Coverage</th> <th>INVERT # Times Sampled</th> <th>PERI # Times Sampled</th> </tr> </thead> <tbody> <tr> <td>Woody Debris (Snags)</td> <td><u>2.2</u></td> <td><u>7</u></td> <td></td> </tr> <tr> <td>Undercut Banks / Roots</td> <td><u>1.5</u></td> <td><u>7</u></td> <td></td> </tr> <tr> <td>Leaf Packs or Mat</td> <td><u>0</u></td> <td></td> <td></td> </tr> <tr> <td>Aquatic Vegetation</td> <td><u>0</u></td> <td><u>4</u></td> <td></td> </tr> <tr> <td>Rock or Shell Rubble..</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Sand</td> <td></td> <td><u>2</u></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)	<u>2.2</u>	<u>7</u>		Undercut Banks / Roots	<u>1.5</u>	<u>7</u>		Leaf Packs or Mat	<u>0</u>			Aquatic Vegetation	<u>0</u>	<u>4</u>		Rock or Shell Rubble..				Sand		<u>2</u>		Mud / Muck / Silt				Other				Other				WATER QUALITY <table border="1"> <thead> <tr> <th></th> <th>Depth (M)</th> <th>Temp. (°C)</th> <th>pH (SU)</th> <th>D.O. (MG/L)</th> <th>D.O. Sat (%)</th> <th>Cond. (UMHO/CM)</th> <th>Salinity (PPT)</th> <th>SECCHI (M)</th> </tr> </thead> <tbody> <tr> <td>Top:</td> <td><u>0.2</u></td> <td><u>18.9</u></td> <td><u>6.8</u></td> <td><u>6.3</u></td> <td><u>69</u></td> <td><u>981</u></td> <td><u>0.50</u></td> <td><u>0.3</u></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><u>0.3</u></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> Meter ID: <u>1:1 605</u>							Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat (%)	Cond. (UMHO/CM)	Salinity (PPT)	SECCHI (M)	Top:	<u>0.2</u>	<u>18.9</u>	<u>6.8</u>	<u>6.3</u>	<u>69</u>	<u>981</u>	<u>0.50</u>	<u>0.3</u>	Mid:								☒ VOB	Bottom	<u>0.3</u>							
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			Water Sample Taken? ☒ Yes ☐ No Sample Preserved? ☒ Yes ☐ No Lot Number: <u>559200</u> Exp: _____			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 ☐																																																																														
ABUNDANCE Not Obs. Rare Common Abundant Periphyton: ☐ ☒ ☐ ☐ Fish: ☐ ☐ ☒ ☐ Aquatic Plants: ☐ ☐ ☒ ☐ Iron/Sulfur Bacteria: ☒ ☐ ☐ ☐			System Type: Stream ☒ Lake ☐ Wetland ☐ Estuary ☐ Other (Specify) _____ AMBIENT FIELD CONDITIONS / NOTES: ☒ The antecedent hydrologic conditions have been met to my best knowledge.																																																																																	
SAMPLING TEAM <u>M Sewell / T Wipack / A Huter / R Prewitt / J Stokes</u>			SIGNATURE <u>Wipack</u>			DATE: <u>6/23/16</u>																																																																														

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

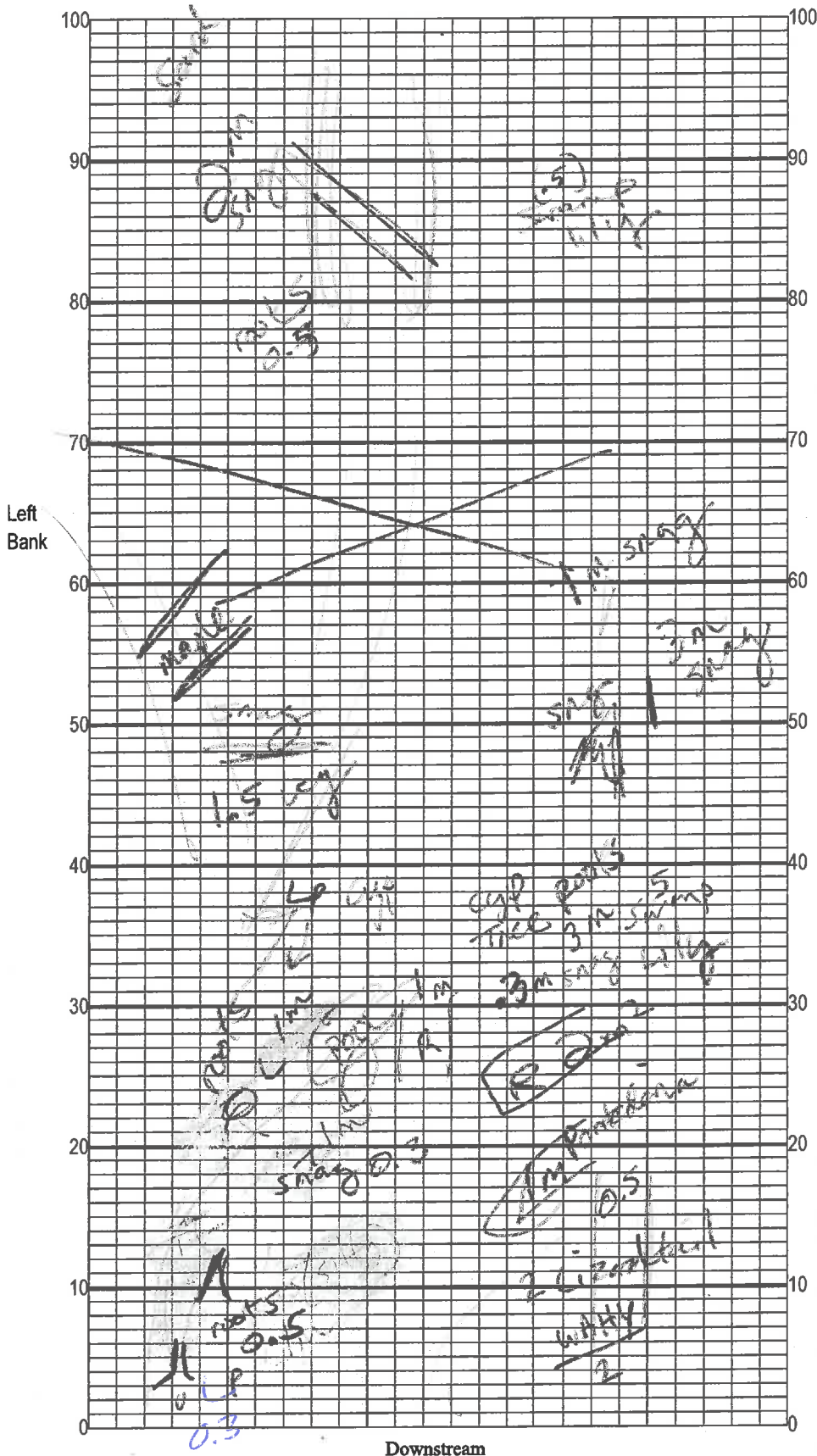
SAMPLING AGENCY: <u>21P1WPB</u>		STORET STATION NUMBER: <u>26010208</u>	DATE (MM/DD/YY): <u>5/31/16</u>	RECEIVING BODY OF WATER: <u>L-63 Cape</u>
REMARKS:	COUNTY: <u>Shelby</u>	LOCATION: <u>@ Mosquito Creek @ CR 710</u>	FIELD ID/NAME: <u>SB-075913</u>	

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>13</u>	20 19 18 17 16	15 14 <u>13</u> 12 11	10 9 8 7 6	5 4 3 2 1
Substrate Availability <u>4</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 <u>12</u> 11	6% to 15% major productive habitat 10 9 8 7 6	Less than 5% major productive habitat 5 <u>4</u> 3 2 1
Water Velocity <u>13</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 <u>13</u> 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 <u>8</u> ----- Primary Score <u>38</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 <u>8</u> 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 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>20</u>	<u>20</u> 19 18 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 root zone with few raw, eroded areas.	Only meets 2 of the 3 requirements for optimal bank stability.	Only meets 1 of the 3 requirements for optimal bank stability.	Bankfull < 60% of bank height. Slope of bank > 60°. Bankfull is below the root zone with raw, eroded areas.
Right Bank <u>10</u> Left Bank <u>10</u>	<u>10</u> 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 <u>6</u> Left Bank <u>10</u>	10 <u>9</u>	<u>8</u> 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 <u>9</u> Left Bank <u>9</u> ----- Secondary Score <u>76</u>	10 <u>9</u>	8 7 6	5 4	3 2 1

114 TOTAL SCORE

Date:	Analyst: <u>Jordan S. AGG-S</u>	Signature: 
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DEP Form FD 9000-4 Stream/River Habitat Assessment Sketch Sheet



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

62-160.800, F.A.C

4m wide

PLANTS
SNAGS
ROOTS

Location: _____

Date: _____

Sampler: _____

100 m: Latitude _____

Longitude _____

0 m: Latitude _____

Longitude _____

Substrates: Code key, draw proportionate habitat abundance. %

☐	Snags	2.25%
☐	Roots/undercut banks	1.5%
☐	Leaf Packs (or mats)	0.01%
☐	Aquatic Macrophytes	0.02%
☐		
☐		
☐	Pools	total # observed = _____ # range expected = _____

Average width _____ m

Average depth _____ m

Velocity measured at _____ meter mark.

WQ & chemistry taken at _____ 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.

Secs/ Meter	Flow m/s	Secs/ Meter	Flow m/s	Plants observed / other notes:	
1	1	12	0.08		
2	0.5	13	0.076		
3	0.33	14	0.071		
4	0.25	15	0.066		
5	0.2	16	0.062		
6	0.16	17	0.058		
7	0.14	18	0.055		
8	0.12	19	0.052		
9	0.11	20	0.052		
10	0.1	21	0.047		
11	0.09	22	No Flow		
Prod. Habitat	1	2	3	4	5
Sweeps Major	10	7	5	4	3
Sweeps Minor	10	6	5	4	5

Revision Date: March 1, 2014

9
400m possible

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: Moscutunk County: Oneida Date: 3/23/16 Investigators: Senell/Skaggs/Hartley

Transect (m) Point 1=right 9=left Algal Thickness Rank (N-6, X) Estimated Canopy Cover

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Transect (m) Point 1=right 9=left Algal Thickness Rank (N-6, X) Estimated Canopy Cover

STORET Station Number: 260102408

RPS ID 8111

Secchi depth 0.3
Estimated? ✓

points ranked 4-6 0
total points assessed 24
% 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-2016-05-21-55

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%.

DEP FORM FD 9000-32: LINEAR VEGETATION SURVEY FIELD SHEET

Storet Number: 260462

Signature:

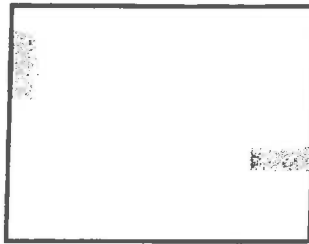
Instructions: Note taxa growing in the water with a checkmark if present, "D" if dominant, and "C" if codominant (dominance only if 1 m² of taxa present). Note in the boxes below if no dominant are selected, and note total macrophyte abundance rank for each section. Only the most common taxa are listed, so use blank spaces for additional taxa names.

HERBACEOUS SPECIES	Meter Mark									Specimen collected (check)			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	
Alternanthera philoxeroides			X	X	X				X		Micranthemum glomeratum											
Bacopa caroliniana											Micranthemum umbrosum											
Bacopa monnieri			X	X				X	X		Myriophyllum aquaticum											
Bidens mitis											Najas guadelupensis											
Boehmeria cylindrica											Nuphar luteum								X			
Centella asiatica											Orontium aquaticum											
Ceratophyllum demersum											Panicum hemitomon			X	X	X						
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			X	X				X	X		Pontedaria cordata			X	X	X				X		
Diodia virginiana											Potamogeton illinoensis											
Eichhornia crassipes		X	X	X	X	X	X	X	X		Ruellia simplex											
Eleocharis (wispy viviparous)											Sacciolepis striata											
Hydrilla verticillata											Sagittaria kurziana											
Hydrocotyle	X	X	X	X	X	X	X	X	X		Sagittaria lancifolia					X						
Hygrophila polysperma											Sagittaria latifolia											
Hymenocallis											Salvinia minima											
Lachnanthes caroliniana											Samolus parviflora											
Landoltia punctata											Saururus cernuus		X	X	X		X	X				
Lemna	X	X	X	X	X			X	X		Sparganium americanum											
Limnophila sessiflora											Typha											
Ludwigia leptocarpa											Vallisneria americana											
Ludwigia palustris											Zizania aquatica											
Ludwigia peruviana											Papyrus (Prox)		X	X	X	X	X	X	X	X		
Ludwigia repens											Taxodium		X	X	X	X	X	X	X	X		
Luziola fluitans											Sweetgum		X	X	X	X	X	X	X	X		
											Acer Rubra											
											Giant Swamp Fern								X			
											Sabal Palm								X			
If no Dominant or Co-Dominant were selected, indicate with "X"																						
Indicate % cover macrophytes per section																						

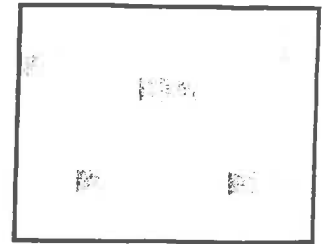
FDEP FORM FD 9000-32 LINEAR VEGETATION SURVEY FIELD SHEET

Percent Cover Categories for macrophytes in a 10 m segment of a stream 5 m wide

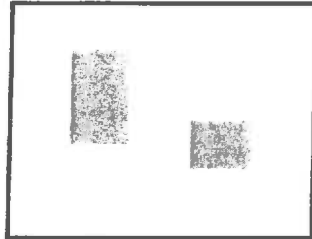
5% Macrophyte Coverage



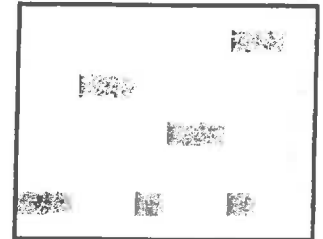
5% Macrophyte Coverage



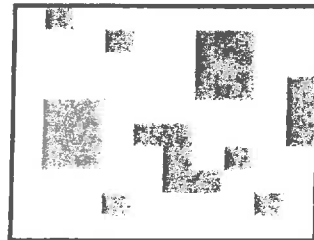
10% Macrophyte Coverage



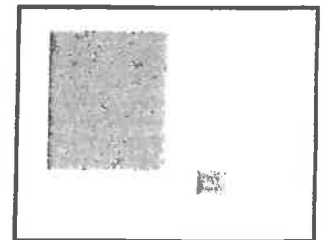
10% Macrophyte Coverage



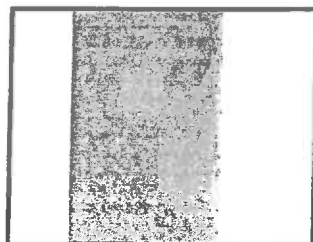
25% Macrophyte Coverage



25% Macrophyte Coverage



50% Macrophyte Coverage



50% Macrophyte Coverage

