



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

PAGE ____ OF ____

Data Qualified?

Yes / No

June 2016

STORET Station Name: Clear Lake Outlet @ Arnold Palmer Date: 6/23/16
(mm/dd/yyyy)
STORET Station ID: G4CE0107 WBID: 316961 Latitude: 28.51067819
(Decimal Degrees)
County: Orange RQ: 2016-06-27-38 ORG ID: 21FLUEN Longitude: -81.454572
(Decimal Degrees)
Receiving Body of Water: Shingle Creek Field ID: G4CE0107

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Natalie Anala									
Katie Williams									

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 / Normal / <u>High</u> / Flooded					Matrix: <u>Fresh</u> / Marine / DI					
Meter ID# <u>11C/AB</u>			Photos: <u>Yes</u> / 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 (umhos/cm)	Temp. (C°)
<u>EST</u>	<u>1035</u>	<u>0.3</u>	<u>0.6</u>	<u>3.1</u>	<u>41</u>	<u>6.6</u>	<u>0.1</u>	<u>0.65</u>	<u>208</u>	<u>28.4</u>
CEN										

Biological Samples Collected: None HA SCI LVS RPS 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>5259020</u>	<u>9/16</u>	☒ <2	
Metals	☐ W-ICPMS ☐ W-ICP				☐ Ice ☐ HNO2			☐ <2	
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 um Filter				☒ Ice				
Chlorophyll	☒ CHLSUITE-W				☒ Ice				
BOD	☐ BOD-UNIN				☐ 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				
Microbiology	☐ E Coli ☐ F Coli ☐ Enteroc ☐ 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				

Notes: Flow for rivers/streams: <u>0.08</u> m/s	Clear Lake Outlet @ Arnold Palmer Dr. RQ-2016-06-27-38 Date: 6/23/16	G4CE0107 Field ID ↑ STORET ↓ G4CE0107
Signature: <u>K Williams</u>	Date: <u>6/23/16</u>	

Field Parameters Entered into LIMS: _____ T.Sheet Updated: ☐ Field Parameters QC in LIMS: _____ T.Sheet Updated: ☐
Date Migrated to STORET: _____ T.Sheet Updated: ☐ Field Sheets Scanned/Saved: _____ T.Sheet Updated: ☐

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

SAMPLE ID 71283 ORG ID 21FLCEN LATITUDE _____
 COUNTY Orange STORET # 64CE0107 LONGITUDE _____
 DATE 6/23/14 TIME _____ SAMPLING AGENCY _____
 SITE NAME _____
 FIELD ID/NAME Clear Lake Outlet RECEIVING BODY OF WATER Shingle Creek

RIPARIAN ZONE / STREAM FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category): Forest/Natural <u>25</u> Silviculture _____ Field/Pasture _____ Agricultural _____ Residential <u>75</u> 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>0.07</u> m/s <u>0.09</u> m/s <u>0.07</u> m/s _____ m deep <u>0.6</u> m deep _____ m deep				
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank: <u>0</u> Right Bank: <u>0</u> Hydrologic Modification Score (per FT 3101) _____ 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></td> <td></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></td> <td></td> <td></td> </tr> <tr> <td>Aquatic Vegetation</td> <td><u>24%</u></td> <td></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></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)				Undercut Banks / Roots				Leaf Packs or Mat				Aquatic Vegetation	<u>24%</u>			Rock or Shell Rubble..				Sand.....				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>0.3</u></td> <td><u>28.4</u></td> <td><u>6.6</u></td> <td><u>3.1</u></td> <td><u>41</u></td> <td><u>208</u></td> <td><u>0.1</u></td> <td><u>0.6(s)</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></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> Meter ID: <u>11C/AB</u> TOTAL DEPTH <u>0.6</u>				Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat (%)	Cond. (UMHO/CM)	Salinity (PPT)	SECCHI (M)	Top:	<u>0.3</u>	<u>28.4</u>	<u>6.6</u>	<u>3.1</u>	<u>41</u>	<u>208</u>	<u>0.1</u>	<u>0.6(s)</u>	Mid:								☒ VOB	Bottom								
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Water Sample Taken? ☒ Yes ☐ No Sample Preserved? ☒ Yes ☐ No Lot Number: <u>5259020</u> Exp: <u>9/14</u>			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 <table border="1"> <thead> <tr> <th></th> <th>Not Obs.</th> <th>Rare</th> <th>Common</th> <th>Abundant</th> </tr> </thead> <tbody> <tr> <td>Periphyton:</td> <td></td> <td></td> <td></td> <td>☒</td> </tr> <tr> <td>Fish:</td> <td></td> <td>☒</td> <td></td> <td></td> </tr> <tr> <td>Aquatic Plants:</td> <td></td> <td></td> <td>☒</td> <td></td> </tr> <tr> <td>Iron/Sulfur Bacteria:</td> <td>☒</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Not Obs.	Rare	Common	Abundant	Periphyton:				☒	Fish:		☒			Aquatic Plants:			☒		Iron/Sulfur Bacteria:	☒				System Type: Stream ☐ Lake ☐ Wetland ☐ Estuary ☐ Other (Specify) <u>Canal</u> AMBIENT FIELD CONDITIONS / NOTES: ☒ The antecedent hydrologic conditions have been met to my best knowledge.																																																					
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SAMPLING TEAM <u>NA/kmw</u>			SIGNATURE: <u>Kullama</u>																																																																														
			DATE: <u>6/23/14</u>																																																																														

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

SAMPLING AGENCY: <u>FDEP</u>		STORET STATION NUMBER: <u>64CED107</u>	DATE (MM/DD/YYYY): <u>6/23/16</u>	RECEIVING BODY OF WATER: <u>Shingle Creek</u>
REMARKS:	COUNTY: <u>Orange</u>	LOCATION: <u>Clear Lake Outlet</u>	FIELD ID/NAME:	

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>2</u>	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Substrate Availability <u>2</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 3 2 1
Water Velocity <u>8</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 4 3 2 1
Habitat Smothering <u>2</u> ----- Primary Score <u>14</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. 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>2</u>	20 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>4</u> Left Bank <u>4</u>	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 <u>2</u> Left Bank <u>2</u>	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 <u>1</u> Left Bank <u>1</u> ----- Secondary Score <u>16</u>	10 9	8 7 6	5 4	3 2 1

30 TOTAL SCORE

Date: <u>6/23/16</u>	Analyst: <u>Kathie Williams</u>	Signature: <u>KWilliams</u>
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DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: Clean Lake Outlet County: Orange Date: 6/23/14 Investigators: NA/kmw

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

STORET Station Number: 6460107

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

Secchi depth 0.6
Estimated?

points ranked 4-6 38
total points assessed 49
% points ranked 4-6 78

Check accompanying data collected at same site/date.

Algal mat sample ☒

Linear Veg Survey ☒

Habitat Assessment ☒

SCI/Biorecon ☒

Water sample ☒

RQ- 2010-06-27-38

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.

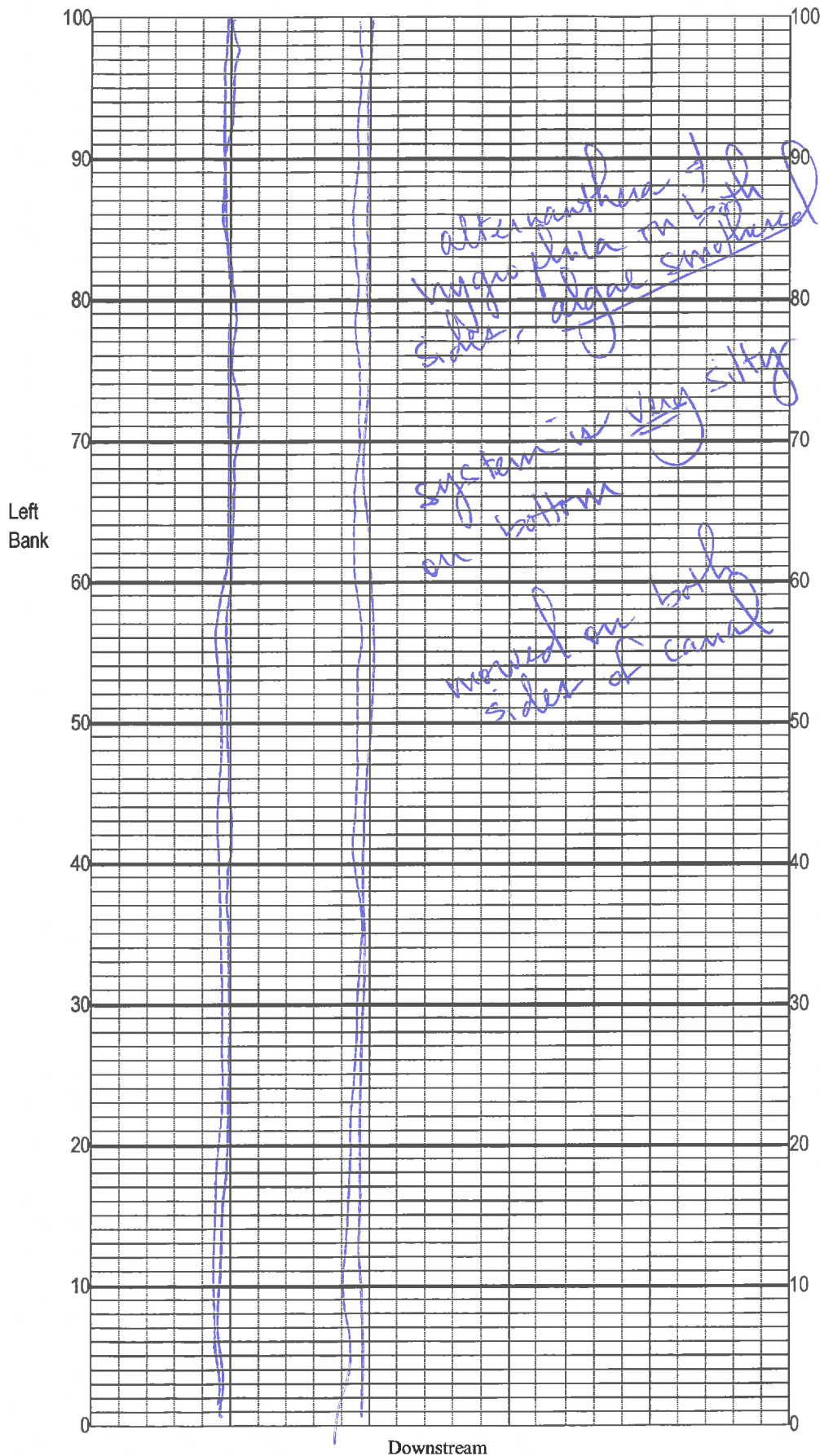
Record canopy cover as the number of small densiometer quadrants (out of 96) that HAVE canopy cover. Measure facing upstream at point 4, 5, or 6.

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

Waterbody: <u>Clean Lake Outlet</u>	Date: <u>6/23</u>	County: <u>Orange</u>	Storet Number: <u>64CED07</u>																				
Analyst: <u>KMW</u>		Signature: <u>[Signature]</u>																					
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.																							
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												Orontium aquaticum											
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												Pontedaria cordata											
Diodia virginiana												Potamogeton illinoensis											
Eichhornia crassipes												Ruellia simplex											
Eleocharis (wispy viviparous)												Sacciolepis 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																							
Ludwigia repens																							
Luziola fluitans																							
If no Dominant or Co-Dominant were selected, indicate with "X"																							
Indicate % cover macrophytes per section																							
0-5% Macrophyte Coverage	/	/	/	/	/	/	/	/	/	/													
>5 and ≤10% Macrophyte Coverage																							
>10 and ≤25% Macrophyte Coverage																							
>25 and ≤50% Macrophyte Coverage																							
> 50% Macrophyte Coverage																							

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).

Location: Clean Lk Outlet
Date: 6/23/16
Sampler: KWW

100 m: Latitude _____	Longitude _____
0 m: Latitude _____	Longitude _____
Substrates: Code key, draw proportionate habitat abundance. %	
☐ Snags	_____ %
☐ Roots/undercut banks	_____ %
☐ Leaf Packs (or mats)	_____ %
☐ Aquatic Macrophytes	<u>2%</u>
☐ _____	_____ %
☐ _____	_____ %
☐ Pools	total # observed = _____ # range expected = _____
Average width <u>10</u> m	
Average depth <u>6</u> m	
Velocity measured at <u>20</u> meter mark.	
WQ & chemistry taken at <u>10</u> 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: