



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

PAGE 1 OF 1

Data Qualified?

Yes ☒ No ☐

March 2017

Location/STORET Station Name:

STORET #

County: Charlotte RQ -RQ-2017-04-10-09
4/19/2017

WBID 2074

Alligator Cr South
Branch @ SR768

G2SD041917-22

Field ID

* STORET
25010009

Date:

(mm/dd/yyyy)

Latitude:

(Decimal Degrees)

Longitude:

(Decimal Degrees)

Receiving Body of Water: Alligator Creek

Field ID:

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Corey Anderson						
Kaitlin De'Aeth						

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 / Pooled / Low / Normal / High / FloodedMeter ID# 18Photos: Yes / NoMatrix: Fresh Marine / DITide Falling: Yes / No / NA

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°)
EST	9:10	0.3	0.4	4.3	49	7.2	—	0.45	1223	21.7
CEN										

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

SBIO ID Numbers: SBIO-ID: RPS-ID: Macrophyte-ID: LIMS#:

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			☐ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3			☐ <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-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates	☐ MI-FW-QLDC	☐ Formalin			
Periphyton	☐ ALGAE-ID	☐ Ice			
Microbiology	☐ E Coli ☐ F Coli ☐ Enterococci ☐ qPCR	☐ Ice			
Tracers	☐ W-SUC-AA-R ☐ W-UHERB-AA ☐ W-AHERB-AA	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH ☐ W-SUC-AA-R	☐ Ice ☐ Other			

Notes:

Dup time: 9:15

Algae-ID sample collected

RQ-2017-04-10-09
4/19/2017

WBID 2074

Alligator Cr South
Br @ SR768 DUP

G2SD041917-22

Field ID

STORET
25010009 DUP

Signature:

Date:

4-19-17

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)



CHAIN OF CUSTODY RECORD

Project #
(Lab Use Only)

Project Name: Strategic Monitoring Program

Report To: OverflowMicro@dep.state.fl.us

Project Location: Alligator WBD 2071, WBD 2074

Client: Florida Dept. of Environmental Protection

Address: 2600 Blairstone Rd. Tallahassee, FL 32399

Bill to: Carina Tull

P.O. # LAB #039

Phone: 850-245-8085

Preservative: HCL = H, HNO₃ = N, Na₂S₂O₃ = ST

Fax

H₂SO₄ = S, NaOH = SH, NH₄Cl = NH

Requested Due Date:

Sampled By (PRINT)

Kaitlin Defeth

Sampler Signature

Kaitlin Defeth

Preservatives

Sample

Date

Time

Type

Preservative

Matrix

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Preservative

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

SAMPLE ID _____ ORG ID _____ LATITUDE 26.884776 / 26.885289
 COUNTY Charlotte STORET # 25010069 LONGITUDE -81.978740 / -81.979547
 DATE 4/19/17 TIME 0910 SAMPLING AGENCY SROC
 SITE NAME Alligator Cr South Branch @ SR768
 FIELD ID/NAME G25D041917-22 RECEIVING BODY OF WATER Alligator Creek

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) ☐ <u>90</u> <u>10</u>						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 <u>2</u> m wide <u>0.2</u> m/s <u>0.4</u> m/s <u>0.4</u> m/s <u>0.4</u> m deep <u>0.4</u> m deep <u>0.4</u> m deep			
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank: <u>12m</u> Right Bank: <u>12m</u>				Hydrologic Modification Score (per FT 3101) <u>1</u>			
High Water Mark: <u>1.0</u> + <u>0.4</u> = <u>0.4</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

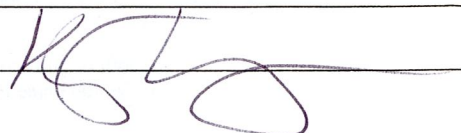
Sediment Oils ☒ Absent ☐ Slight ☐ Moderate ☐ Profuse			Sediment Odors ☒ Normal ☐ Sewage ☐ Petroleum ☐ Chemical ☐ Anaerobic ☐ Other (Specify): _____			Smothering of Substrates Sand Smothering: None ☐ Slight ☐ Moderate ☐ Severe ☐ Silt Smothering: None ☐ Slight ☐ Moderate ☐ Severe ☐ Algae Smothering: None ☐ Slight ☐ Moderate ☐ Severe ☐		
SUBSTRATE TYPE Assessment Tool: ☐ SCI ☒ RPS ☒ LVS ☐ LCI ☐ BioRecon % Coverage INVERT PERI # Times Sampled # Times Sampled Woody Debris (Snags) <u>0.74</u> <u>0.36</u> Undercut Banks / Roots <u>0.36</u> Leaf Packs or Mat <u>0.36</u> Aquatic Vegetation <u>0.36</u> Rock or Shell Rubble <u>0.36</u> Sand <u>0.36</u> Mud / Muck / Silt <u>0.36</u> Other <u>0.36</u> Other <u>0.36</u>			WATER QUALITY 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>21.7</u> <u>7.2</u> <u>4.3</u> <u>49</u> <u>1223</u> <u>—</u> <u>0.4</u> Mid: <u>0.3</u> <u>21.7</u> <u>7.2</u> <u>4.3</u> <u>49</u> <u>1223</u> <u>—</u> <u>0.4</u> Bottom: <u>0.3</u> <u>21.7</u> <u>7.2</u> <u>4.3</u> <u>49</u> <u>1223</u> <u>—</u> <u>0.4</u> Meter ID: <u>158</u>					
Water Odors Normal ☐ Petroleum ☐ Sewage ☐ Chemical ☐ Other ☒ <u>cow</u>			Water Surface Oils Normal ☒ Sheen ☐ Globbs ☐ Slick ☐ Other ☐			Water Sample Taken? ☒ Yes ☐ No Sample Preserved? ☒ Yes ☐ No Lot Number: _____ Exp: _____		
Water Sample Taken? ☒ Yes ☐ No Sample Preserved? ☒ Yes ☐ No Lot Number: _____ Exp: _____			Color Tannic ☐ Green (Algae) ☐ Clear ☒ Other (Specify) ☐			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>SROC Kaitlin DeAeth</u>						SIGNATURE: <u>[Signature]</u>		DATE: <u>4/19/17</u>

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

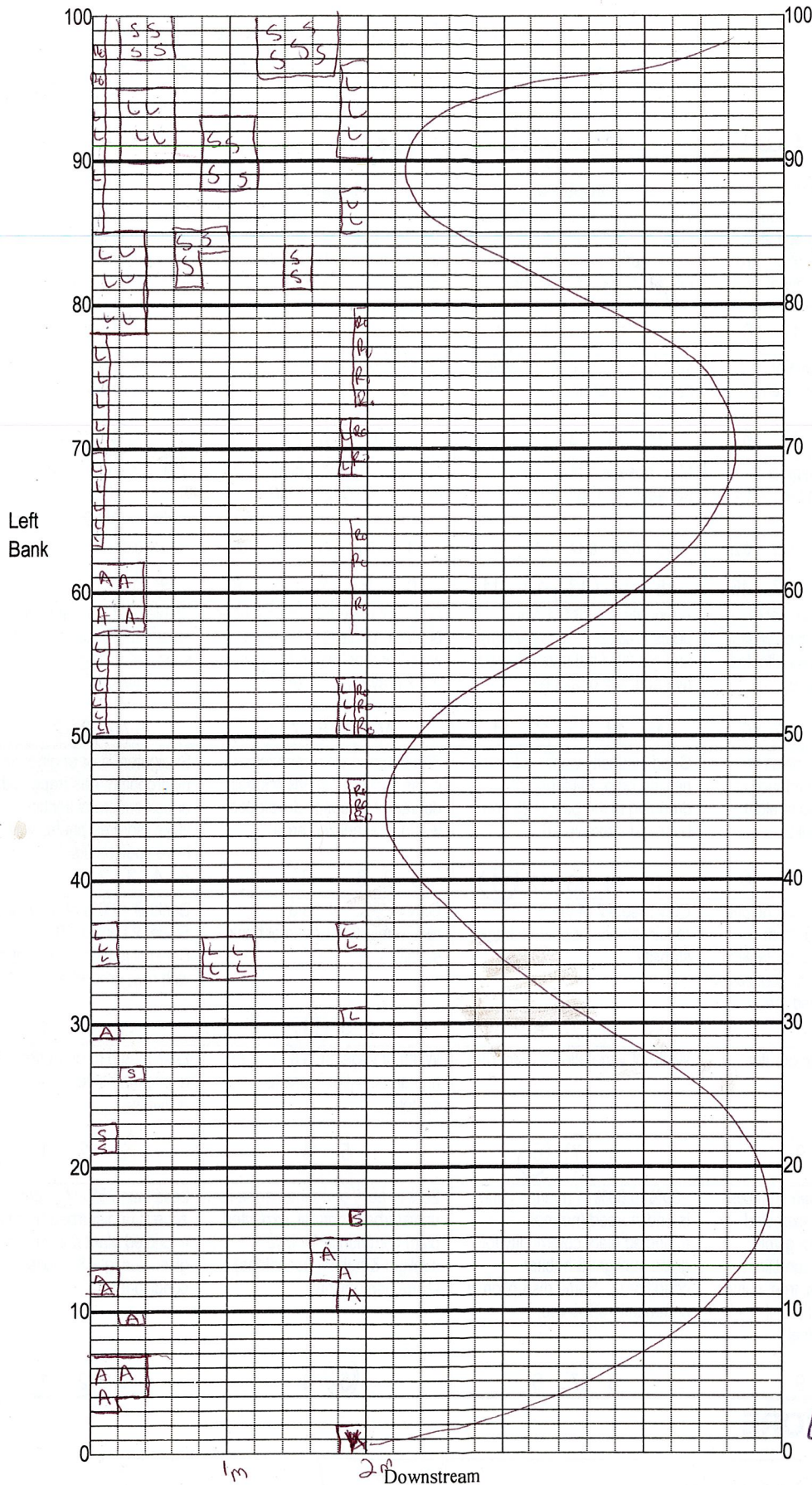
SAMPLING AGENCY: <u>SROC</u>		STORET STATION NUMBER: <u>25010009</u>	DATE (MM/DD/YY): <u>4/19/17</u>	RECEIVING BODY OF WATER: <u>Alligator Creek</u>
REMARKS:	COUNTY: <u>Charlotte</u>	LOCATION: <u>Alligator Creek</u>		FIELD ID/NAME:

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>10</u>	20 19 18 17 16	15 14 13 12 11	<u>10</u> 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 12 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>4</u> Primary Score <u>31</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 <u>4</u> 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>11</u>	20 19 18 17 16	15 14 13 12 <u>11</u>	10 9 8 7 6	5 4 3 2 1
Bank Stability Right Bank <u>4</u> Left Bank <u>4</u>	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. 10 9	Only meets 2 of the 3 requirements for optimal bank stability. 8 7 6	Only meets 1 of the 3 requirements for optimal bank stability. 5 <u>4</u>	Bankfull < 60% of bank height. Slope of bank > 60°. Bankfull is below the root zone with raw, eroded areas. 3 2 1
Riparian Buffer Zone Width Right Bank <u>7</u> Left Bank <u>6</u>	Width of vegetation greater than 18 m 10 9	Width of vegetation >12 to 18m 8 <u>7</u> <u>6</u>	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 3 2 1
Riparian Zone Vegetation Quality Right Bank <u>5</u> Left Bank <u>5</u> Secondary Score <u>42</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. 8 7 6	25% to 50% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Disruption obvious. <u>5</u> 4	Less than 25% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). 3 2 1

73 TOTAL SCORE

Date: <u>4/19/17</u>	Analyst: <u>K. DeArth</u>	Signature: 
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DEP Form FD 9000-4 Stream/River Habitat Assessment Sketch Sheet



Location: Alligator Creek 2074
 Date: 4/19/17
 Sampler: K. DeDehn

100 m:	Latitude	<u>26.884776</u>
	Longitude	<u>-81.978740</u>
0 m:	Latitude	<u>26.885289</u>
	Longitude	<u>-81.979547</u>
Substrates: Code key, draw proportionate habitat abundance. %		
☐ S	Snags	_____
☐ R	Roots/undercut banks	_____
☐ L	Leaf Packs (or mats)	<u>71</u>
☐ A	Aquatic Macrophytes	<u>36</u>
☐ V	<u>Veg</u>	_____
☐	_____	_____
☒	Pools	total # observed = <u>1</u> # range expected = <u>1</u>
Average width <u>2</u> m		
Average depth <u>0.5</u> m		
Velocity measured at <u>0</u> meter mark.		
WQ & chemistry taken at <u>0</u> meter mark.		
Habitat Smothering: <u>sand, all over</u> Note areas (on map) where sand or silt is smothering substrates, limiting habitability.		
Bank Stability: <u>---+---</u> Note areas (on map) with unstable, eroding banks.		
Riparian Buffer Width: <u>= 12m, = 12m</u> Note areas (on map) where natural vegetation is altered or eliminated.		

Plants observed / other notes:

Velocity: 0.2 m/sec
 * Ludwigia repens

71/1000 =

36/1000 =

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

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: Aligator Creek South Br @ SR768 County: Charlotte Date: 4-19-17 Investigators: Corey Anderson, Kaitlin De'Aeth

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: 25610009

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				60	1	N		
	2					2	N		
	3					3	N		
	4					4	N		
	5	N		55		5	5		96
	6	N				6	N		
	7					7	N		
	8					8	N		
	9					9	N		
10	1				70	1			
	2					2			
	3					3			
	4	N				4	N		
	5	N		96		5	N		96
	6					6			
	7					7			
	8					8			
	9					9			
20	1				80	1	N		
	2					2	N		
	3					3	N		
	4	N				4	4		
	5	N		95		5	5		90
	6					6	6		
	7					7	5		
	8					8	N		
	9					9	N		
30	1	4			90	1	N		
	2	4				2	N		
	3	4				3	N		
	4	N				4	N		
	5	N		86		5	5		96
	6	4				6	6		
	7	N				7	N		
	8	N				8	N		
	9	N				9	N		
40	1	6			100	1	N		
	2	6				2	N		
	3	6				3	5		
	4	N				4	6		
	5	N		29		5	6		90
	6	4				6	6		
	7	N				7	5		
	8	N				8	N		
	9	N				9	N		
50	1				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.				
	2				Record "X" for points shallower than Secchi depth for which substrate cannot be seen or reached with the hand. No estimated rank.				
	3				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.				
	4				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%.				
	5	N		96					
	6								
	7								
	8								
	9								

Secchi depth 0.4
Estimated?

points ranked 4-6 20
total points assessed 99
% points ranked 4-6 20

Check accompanying data collected at same site/date.
Algal mat sample ☒
Linear Veg Survey ☒
Habitat Assessment ☒
SCI/Biorecon ☐
Water sample ☒
RQ- 2017-04-10-09

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

Algae ID collected

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

Waterbody: Alligator Creek 2074, South Branch Date: 4/19/17 County: Charlotte Storet Number: 2501009
Analyst: Corey Anderson Signature: [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 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)	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									X			Myriophyllum aquaticum											
Bidens mitis												Najas guadelupensis											
Boehmeria cylindrica												Nuphar luteum	X	X			X		X	X			
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												Pontederia 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 octovalvis									X			Vallisneria americana											
Ludwigia palustris												Zizania aquatica											
Ludwigia peruviana												Echinochloa sp.							X	X			
Ludwigia repens	X	X	X	X	X	X	X	X	X	X		Utricularia	X	X					X				
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																							