



Field/WIN ID

Location

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
WATER QUALITY MONITORING PROGRAM FIELD SHEET

G2SD0034

January 2018

Data Qualified?

Yes / No

WIN St:

Gator Slough @ Weir

WIN/ File

County: Lee

Receiving Body of Water: Charlotte HARBOR

Date: 01/16/2018

(mm/dd/yyyy)

WBID: 2082C

Latitude: 26.71013

(Decimal Degrees)

ORG ID: 37301000018

Longitude: -81.99017

(Decimal Degrees)

RQ-2018- 01-15-55

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Chase Conley / KALINA WARREN									
Maryann Dugan									
NICOLE REISTAD									

Sampling Equipment		
☒ Sample Container	☐ Van Dorn	☐ Pole
☐ Carboy	☒ Syringe	
☐ Dipper	☐ Other	
Depth Measured with <u>Secchi disk</u>		
Equipment ID <u>deep blue</u>		
Collection Method		
☐ Wading	☐ Canoe/Kayak	
☐ From Shore	☐ Electric Motor	
☐ Other	☒ Gasoline Motor	

Water Level: Dry/ Pooled/ Low / Normal / High / Flooded Meter ID# 5 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 (µmhos/cm)	Temp. (C°)
EST	1303	1.5	0.3	1.5 _s	5.87	62.0	7.2	484 _{NR}	484	17.7
CEN	1305		1.0		5.68	59.1	7.2		486	17.1

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

SBIO ID Numbers: SBIO-ID: 78346 HA-ID: 15013 RPS-ID: 8482 Macrophyte-ID: 10913 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>SA7341620</u>	<u>12/07/18</u>	☒ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3			☒ <2
Filtered Nutrients	☒ W-P04-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-S04-IC / W-TDS	☒ Ice			
Physical/Aggregate (Marine)	☐ Alkalinity / W-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates	☐ MI-PW-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-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:

Group A

Place Label Here

Signature:

Maryann Dugan

Date:

01/16/2018

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:

Location

30-5 Stream/River Habitat Assessment Field Sheet

Gator Slough @ Weir

STORET STATION NUMBER:

DATE (MM/DD/YY):

RECEIVING BODY OF WATER:

01/16/2018

CHARLOTTE HARBOR

REMARKS:

COUNTY:

LOCATION:

FIELD ID/NAME:

LEE

GATOR SLOUGH @ WEIR

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>11</u>	20 19 18 17 16	15 14 13 12 <u>11</u>	10 9 8 7 6	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>1</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 <u>1</u>
Habitat Smothering <u>5</u> ----- Primary Score <u>20</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	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>4</u>	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 <u>4</u> 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>10</u>	10 9	8 7 <u>6</u>	5 <u>4</u>	3 2 1
Riparian Buffer Zone Width	Width of vegetation greater than 18 m	Width of vegetation >12 to 18 m	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>3</u> Left Bank <u>10</u>	<u>10</u> 9	8 7 6	5 4	<u>3</u> 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>5</u> Left Bank <u>7</u> ----- Secondary Score <u>39</u>	10 9	8 <u>7</u> 6	<u>5</u> 4	3 2 1

59 TOTAL SCORE

Date:

01/16/2018

Analyst:

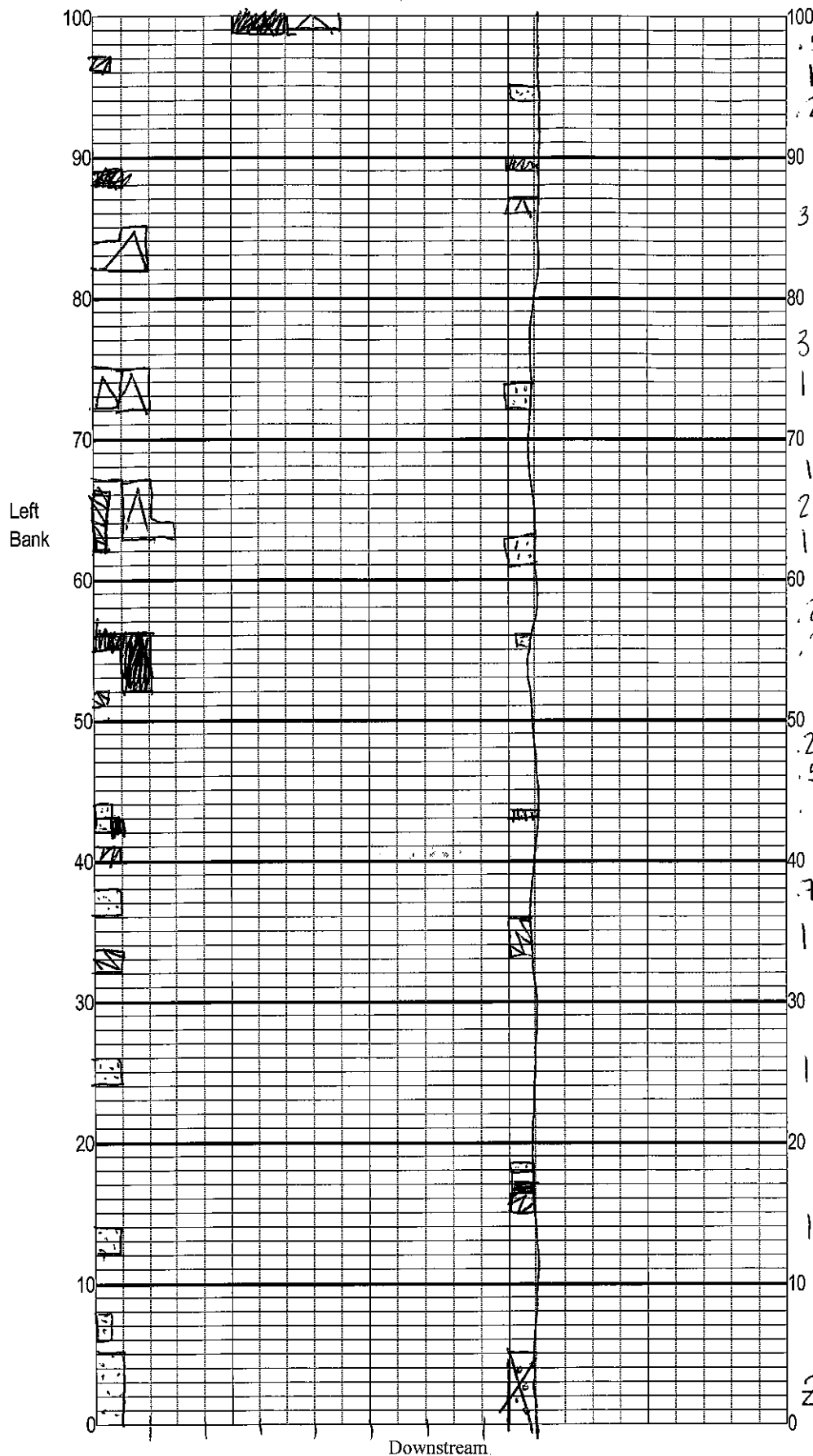
MD, NR, CC

MARYANN DUGAN
NICOLE REISTAD
CHASE LOLEY

Signature:

Maryann Dugan

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



Location: Gator Slough @ Wein
 Date: 01/16/2018
 Sampler: Nicole Reistad

100 m: Latitude 26.71013
 Longitude -81.99017
 0 m: Latitude 26.70964
 Longitude -81.99110

Substrates: Code key, draw proportionate habitat abundance.		%
	Snags	<u>0.44</u>
	Roots/undercut banks	<u>0</u>
	Leaf Packs (or mats)	<u>0</u>
	Aquatic Macrophytes	<u>1.2</u>
	<u>Rocks</u>	<u>1.2</u>
	Pools	total # observed = <u>0</u> # range expected = <u>1</u>

Average width 8 m
 Average depth 1.5 m

Velocity measured at 0 meter mark.

WQ & chemistry taken at 100 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:

1.25 AM
7.5 S
2.5m² AM
3
9.5 AM = 1.2%
3.5 S = 0.44%
9.75 R = 1.2%

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

DEP-SOP-001/01: Form FD 9000-3 (9/19/12)
PHYSICAL/CHEMICAL CHARACTERIZATION FIELD SHEET

Field/WIN ID



G2SD0034

Location

Gator Slough @ Weir

SAMPLE ID _____ ORG ID _____
 COUNTY LEE SAMPLING AGENCY SROC
 DATE 01/16/2018 TIME 1303
 SITE NAME GATOR SLOUGH @ WEIR
 FIELD ID/NAME G2SD0034 RECEIVING BODY OF WATER _____

RIPARIAN ZONE / STREAM FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category) : Forest/Natural <u>75</u> Silviculture _____ Field/Pasture _____ Agricultural _____ Residential <u>25</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>0.05</u> m/s <u>0.01</u> m/s <u>0.05</u> m/s <u>0.9</u> m deep <u>1.5</u> m deep <u>1.0</u> m deep
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank : <u>18M</u> Right Bank : <u>3M</u>			Hydrologic Modification Score (per FT 3101) _____			
High Water Mark: <u>1.0</u> + <u>1.5</u> = <u>2.5</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>0.44</u></td> <td></td> <td></td> </tr> <tr> <td>Undercut Banks /Roots</td> <td><u>0</u></td> <td></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>1.2</u></td> <td></td> <td></td> </tr> <tr> <td>Rock or Shell Rubble...</td> <td><u>1.2</u></td> <td></td> <td></td> </tr> <tr> <td>Sand/Silt.....</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Sand/Gravel.....</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> </tbody> </table>			% Coverage	INVERT # Times Sampled	PERI # Times Sampled	Woody Debris (Snags)	<u>0.44</u>			Undercut Banks /Roots	<u>0</u>			Leaf Packs or Mat	<u>0</u>			Aquatic Vegetation	<u>1.2</u>			Rock or Shell Rubble...	<u>1.2</u>			Sand/Silt.....				Sand/Gravel.....				Mud/Muck/Silt				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. (%)</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>17.7</u></td> <td><u>7.2</u></td> <td><u>5.9</u></td> <td><u>42</u></td> <td><u>484</u></td> <td></td> <td><u>1.5</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>1.0</u></td> <td><u>17.1</u></td> <td><u>7.2</u></td> <td><u>5.7</u></td> <td><u>59</u></td> <td><u>486</u></td> <td></td> <td><u>1.5</u></td> </tr> </tbody> </table> Meter ID: <u>5</u> Meter Verify: Y ☐ N ☐					Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. (%)	Cond. (UMHO/CM)	Salinity (PPT)	SECCHI (M)	Top :	<u>0.3</u>	<u>17.7</u>	<u>7.2</u>	<u>5.9</u>	<u>42</u>	<u>484</u>		<u>1.5</u>	Mid:								☒ VOB	Bottom	<u>1.0</u>	<u>17.1</u>	<u>7.2</u>	<u>5.7</u>	<u>59</u>	<u>486</u>		<u>1.5</u>
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SAMPLING TEAM

MARIANN DUGAN, NICOLE REISTAD, CHASE WATLEY

SIGNATURE:

Mariann Dugan

DATE:

01/16/2018

0-25 Rapid Periphyton Survey Field Sheet

Gator Slough @ Weir

County:

LEE

Date:

01/10/2018

Investigators:

MARMANN DUGAN, NICOLE REISTAD

STORET Station Number:

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				60	1	N		
	2	N				2			
	3					3			
	4					4			
	5			24		5			44
	6					6			
	7					7			
	8					8			
	9					9			
10	1				70	1			
	2					2			
	3					3			
	4					4			
	5			40		5			48
	6					6			
	7					7			
	8					8			
	9					9			
20	1				80	1			
	2					2			
	3					3			
	4					4			
	5			44		5			60
	6					6			
	7					7			
	8					8			
	9					9			
30	1				90	1			
	2					2			
	3					3			
	4					4			
	5			60		5			48
	6					6			
	7					7			
	8					8			
	9					9			
40	1				100	1			
	2					2			
	3					3			
	4					4			
	5			12		5			80
	6					6			
	7					7			
	8					8			
	9					9			
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. 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%.				
	2								
	3								
	4								
	5			6					
	6								
	7								
	8								
	9								

Secchi depth	1.5 m
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	X
Habitat Assessment	X
SCI/Biorecon	
Water sample	X
RQ-2018-01-15-55	

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

G25D0034

DEP FORM FD 9000-32: LINEAR VEGETATION SURVEY FIELD

Storet Number: [^] put sticker here

Date: 01/16/18

County: LEE

Waterbody: GATOR SLough

Analyst: MARVANN DUGAN, N. C. KREISAD, LAKE CONLEY

Signature: Marvann Dugan

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. **bold is exotic invasive**

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	X	X	X	X		X	X	X	X	X		Micranthemum glomeratum											
Bacopa caroliniana												Micranthemum umbrosum											
Bacopa monnieri												Myriophyllum aquaticum											
Bidens mitis												Najas guadelupensis											
Boehmeria cylindrica												Nuphar luteum	X	X	X	X	X	X	X	X	X	X	
Centella asiatica												Orontium aquaticum											
Ceratophyllum demersum												Panicum hemitomon											
Chara sp.												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											
Cyperus												Potamogeton illinoensis											
Diodia virginiana												Ruellia simplex											
Eichhornia crassipes												Sacciolepis striata											
Eleocharis (wispy viviparous)												Sagittaria kurziana											
Hydrilla verticillata												Sagittaria lancifolia											
Hydrocotyle sp.												Sagittaria latifolia											
Hygrophila polysperma										X		Salvinia minima											
Hymenachne amplexicaulis												Samolus parviflora											
Hymenocallis												Saururus cernuus											
Lachnanthes caroliniana												Sparganium americanum											
Landoltia punctata												Sphagneticola trilobata (Wedelia)											
Lemna sp.												Typha sp.	X				X						
Limnophila sessiflora												Urochloa mutica (Brachiaria)											
Ludwigia leptocarpa												Vallisneria americana											
Ludwigia palustris												Zizania aquatica				X	X						
Ludwigia peruviana			X	X	X	X	X	X	X	X		Annaea glabra	X									X	
Ludwigia repens												Cyperus involucreatus										X	
Luziola fluitans												Acrisostichum danaeifolium						X					
												Myrica CERIFERA			X	X	X	X					
												Phragmites	X	X	X	X	X						
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																							