

HA/RPS/LVS

Site Name Wekiva River Sample Date 4/24/19WBID 2956 WIN ID G2UE0205 RQ 2019-04-22-39

	Initial/Date	QC Initial/Date
Water chemistry data to LIMS	KWM MAY 07 2019	LB 05/31/19
Create SBIO station visit	KWM MAY 07 2019	n/a
Phys/Chem entry	KWM MAY 07 2019	LB 05/31/19
Habitat Assessment entry	KWM MAY 07 2019	LB 05/31/19
Vascular entry (add LIMS ID to entry)	KWM MAY 07 2019	LB 05/31/19
RPS entry	KWM MAY 07 2019	LB 05/31/19
Authorize SBIO data	LB 05/31/19	n/a
Scan all sheets to 21FLCEN folder	LB 05/31/19	n/a
LIMS/WIN migration	LB 05/31/19	n/a
File in cabinet	LB 05/31/19	n/a

Comments/notes:

850

13517

317
713



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

WIN Station Name: Wekiva River Upstream of Little Wekiva Confluence

Date: 04/24/19

WIN ID/ Field ID G2CE0205

WBID: 2956

Latitude: 28.73743

(mm/dd/yyyy)

County: Seminole/Orange

ORG ID: 21FLCEN

Longitude: -81.42263

(Decimal Degrees)

Receiving Body of Water: St. John's River

RQ 2019 - 04-22-39

(Decimal Degrees)

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Duplicate Collection	Blank Collection
Leif Boman								
Katie March								

Sampling Equipment		
☒ Sample Container	☐ Van Dorn	☐ Pole
☐ Carboy	☒ Syringe	
☐ Dipper	☐ Other	
Depth Measured with: <u>Secchi Disk Line / Meter</u>		
Equipment ID: <u>Leadfoot, Knothead, Scud/ Bucket, Shrimp/Trap</u>		

Collection Method	
☐ Wading	☐ Canoe/Kayak
☐ From Shore	☐ Electric Motor
☐ Other	☒ Gasoline Motor

Water Level: <u>Dry</u> / Pooled / Low / Normal / High / Flooded	Meter ID# <u>Betty 67</u>	Matrix: <u>Fresh</u> / Marine / DI
Photos: Yes / No	Flow: <u>No Flow</u> / Intestinal / <u>Flowing</u> / NA	Tide: <u>Rising</u> / Falling / Slack / NA
Tide Times: High		Low

Field Sample

(Bracket Sample Time)

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	1125	1.0	0.3	1.0(s)	6.75	78.5	7.58	0.16	334	22.85
GEN										

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

SBIO ID Numbers: SBIO-ID: 79435 HA-ID: 15757 RPS-ID: 9319 Macrophyte-ID: 11269 LIMS#: 2061020

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			☐ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3			☐ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice	13615055		
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-BR-IC / W-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates	☐ MI-FW-QLDC	☐ Formalin			
Periphyton	☐ ALGAE-ID	☐ Ice			
Microbiology	☐ E Coli ☐ F Coli ☐ Enterococci	☐ Ice			
Molecular	☐ PCR-FILTER ☐ PCR-BacR ☐ PCR-GULLZ ☐ PCR-HF183 ☐ PCR-DG3 ☐ PCR-GFD	☐ Ice			
Tracers	☐ W-E3821-MS ☐ W-E32821-DI	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-E3821-MS ☐ W-CT-CL-R ☐ W-PCL-SQ-R ☐ W-E3821-DI ☐ W-CARB-AA	☐ Ice			
Phytoplankton	☐ DTY-QN-C ☐ PKD-QN-C	☐ Ice			

H2SO4
LOT# SA8344070
EXP: 12/10/2019

QA/QC Sample Information
Duplicate

Time Zone: (EST) CEN		Time: 1130	Field ID: G2CE0205 DUP (WIN ID_DUP)	
WIN DMT Activity ID:				
Parameter Suite	Parameter Methods	Preservation	Lot#	Expiration pH Check
Preserved Nutrients	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☒ Ice ☒ H ₂ SO ₄		☐ < 2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO ₃		☐ < 2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice	13615055	
Chlorophyll	☒ CHL-SUITE-W km	☒ 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-BR-IC / W-F / W-TSS / TURBIDITY	☐ Ice		
Microbiology	☐ E Coli ☐ F Coli ☐ Enterococci			
Molecular	☐ PCR-FILTER ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-HF183 ☐ PCR-DG3 ☐ PCR-GFD			
Tracers	☐ W-E3821-MS ☐ W-E3821-DI			
Pesticides	☐ W-PSNP-TQ ☐ W-E3821-DI ☐ W-CT-CL-R ☐ W-PCL-SQ-R ☐ W-E-3821-MS ☐ W-CARB-AA			

H2SO4
LOT# SA8344870
EXP: 12/10/2019
Place Preservative Here

Field ID → G2CE0205_DUP
WIN → G2CE0205
 Location → Wekiva River Upstream of
 Little Wekiva Confluence

Blank

Time Zone: (EST) GEN		Time: 1245	Field ID: FB 04242019 (Blank Type_DDMMYYYY)	
DI Source: lab		Location: Wekiva Island boat ramp		
☒ Field Blank ☐ Equipment Blank ☐ Field Cleaned Equipment Blank		Equipment ID: DI #4		
WIN DMT Blank Batch ID:				
Parameter Suite	Parameter Methods	Preservation	Lot#	Expiration pH Check
Preserved Nutrients	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☒ Ice ☒ H ₂ SO ₄		☐ < 2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO ₃		☐ < 2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice	13615055	
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			
Tracers	☐ W-E3821-MS ☐ W-E3821-DI			
Pesticides	☐ W-PSNP-TQ ☐ W-E3821-DI ☐ W-CT-CL-R ☐ W-PCL-SQ-R ☐ W-E3821-MS ☐ W-CARB-AA			
Notes:				

H2SO4
LOT# SA8344870
EXP: 12/10/2019

Field ID: FB_04242019

Place or Type Label Here

WIN ID / Field ID →

 Wekiva River Upstream
 of Little Wekiva
 Confluence



G2CE0205

Signature: K March

Date: 4/24/19

LIMS EVENT ID: CENT-DIST-2019- 04-25-03 WIN Import ID: _____
 Enter Field Parameters, Verify Station ID In LIMS DMT: **KWM MAY 07 2019** QC Station ID, Field Parameters In LIMS DMT: **LB 5/31/19**
(Initials/Date) (Initials/Date)
 Scan/Save Field Sheets **LB 5/31/19** Migrate Data to WIN: **LMO 7/26/19** Verify Data In WIN: _____
(Initials/Date) (Initials/Date) (Initials/Date)

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

SAMPLING AGENCY:		STORET STATION NUMBER: <u>GZCE0205</u>	DATE (MM/DD/YY): <u>4/24/19</u>	RECEIVING BODY OF WATER: <u>SJR</u>
REMARKS:	COUNTY: <u>Seminole</u>	LOCATION: <u>Wetiva River</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	10 9 8 7 6	5 4 3 2 1
Substrate Availability <u>18</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>14</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>13</u> ----- Primary Score <u>42</u> <u>55</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>20</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>10</u> Left Bank <u>10</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>10</u> Left Bank <u>10</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>10</u> Left Bank <u>10</u> ----- Secondary Score <u>80</u>	10 9	8 7 6	5 4	3 2 1

122 | 35 TOTAL SCORE

Date: <u>4/24/19</u>	Analyst: <u>Katie March, LWF</u>	Signature: <u>KMarch</u>
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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).

Location: _____

Date: _____

Sampler: _____

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 _____

☐ _____

☐ _____

☐ 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.

Plants observed / other notes:

SAMPLE ID _____ ORG ID 21FLUEN LATITUDE _____
 COUNTY St. John's STORET # 02CE0205 LONGITUDE _____
 DATE _____ TIME _____ SAMPLING AGENCY _____
 SITE NAME Wekiva River Upstream of Little Wekiva River
 FIELD ID/NAME _____ RECEIVING BODY OF WATER St. John's River

RIPARIAN ZONE / STREAM FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category): Forest/Natural <u>90</u> Silviculture _____ Field/Pasture _____ Agricultural _____ Residential <u>20</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>95</u> m wide			
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) _____		<u>0.15</u> m/s <u>0.20</u> m/s <u>0.15</u> m/s			
High Water Mark: <u>0.5</u> + <u>1.0</u> = <u>1.5</u> (m) (above present water level) (present depth) (above bed)				Artificially Impounded ☐ Yes ☒ No		<u>0.6</u> m deep <u>1.0</u> m deep <u>0.7</u> m deep			
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			WATER QUALITY <table border="1"> <thead> <tr> <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: <u>0.3</u></td> <td><u>22.05</u></td> <td><u>7.58</u></td> <td><u>6.75</u></td> <td><u>78.5</u></td> <td><u>334</u></td> <td><u>0.16</u></td> <td>☒</td> </tr> <tr> <td>Mid: _____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>☒</td> </tr> <tr> <td>Bottom: _____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>☐</td> </tr> </tbody> </table>						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>22.05</u>	<u>7.58</u>	<u>6.75</u>	<u>78.5</u>	<u>334</u>	<u>0.16</u>	☒	Mid: _____	_____	_____	_____	_____	_____	_____	☒	Bottom: _____	_____	_____	_____	_____	_____	_____	☐
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Mid: _____	_____	_____	_____	_____	_____	_____	☒																																	
Bottom: _____	_____	_____	_____	_____	_____	_____	☐																																	
Woody Debris (Snags) _____ Undercut Banks / Roots _____ Leaf Packs or Mat _____ Aquatic Vegetation _____ Rock or Shell Rubble _____ Sand _____ Mud / Muck / Silt _____ Other _____ Other _____			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: _____ Exp: _____			Color Tannic ☐ Green (Algae) ☐ Clear ☒ Other (Specify) _____			Clarity Clear ☒ Slightly Turbid ☐ Turbid ☐ Opaque ☐																																		
Algae Sample Taken? ☐ Yes ☒ No Sample Preserved? ☐ Yes ☐ No Lot Number: _____ Exp: _____			System Type: Stream ☒ Lake ☐ Wetland ☐ Estuary ☐ Other (Specify) _____																																					
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:	☒	☐	☐	☐	AMBIENT FIELD CONDITIONS / NOTES: ☒ The antecedent hydrologic conditions have been met to my best knowledge.												
	Not Obs.	Rare	Common	Abundant																																				
Periphyton:	☐	☐	☒	☐																																				
Fish:	☐	☐	☒	☐																																				
Aquatic Plants:	☐	☐	☐	☒																																				
Iron/Sulfur Bacteria:	☒	☐	☐	☐																																				

SAMPLING TEAM

Kate March, Lief Boman

SIGNATURE:

K March

DATE:

4/24/19

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site:

Wakiva River

County:

Seminole

Date:

4/24/19

Investigators:

Katie March, Leif Bonner

STORET Station Number:

G26E0205

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 X 2 X 3 X 4 3 5 3 6 2 7 X 8 X 9 X

60 1 X 2 X 3 X 4 N 5 3 6 3 7 X 8 X 9 X

10 1 X 2 X 3 X 4 2 5 3 6 3 7 X 8 X 9 X

70 1 X 2 X 3 X 4 3 5 2 6 4 7 X 8 X 9 X

20 1 X 2 X 3 X 4 3 5 4 6 3 7 X 8 X 9 X

80 1 X 2 X 3 X 4 N 5 3 6 2 7 X 8 X 9 X

30 1 X 2 X 3 X 4 2 5 2 6 3 7 X 8 X 9 X

90 1 X 2 X 3 X 4 3 5 3 6 2 7 X 8 X 9 X

40 1 X 2 X 3 X 4 3 5 2 6 3 7 X 8 X 9 X

100 1 X 2 X 3 X 4 N 5 3 6 3 7 X 8 X 9 X

50 1 X 2 X 3 X 4 4 5 2 6 2 7 X 8 X 9 X

Secchi depth 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 Habitat Assessment SCI/Biorecon Water sample RQ-

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

Cannot access much of run due to thick macrophyte coverage, but all < secchi so denoting with X's. Middle of run we can see but not reach. Looks to be mostly silt.

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>Wekiva</u>	Date: <u>4/24/19</u>	County: <u>Orange/Seminole</u>	Store Number: <u>G24E0205</u>
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Analyst: <u>Katie Marsh, Keith Bowman</u>	Signature: <u>Katie Marsh</u>	Store Number: <u>Gateways</u>
Comments: <u>cannot access much due to thick veg. buffer</u>		
Instructions: Note trees growing in the western 1/3 of the site.		

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.

[illegible]