FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

March 2017

PAGE 1 OF ____

Data Qualified? Yes / No

Location/STORET Station Name: JAMES LAKE Center **Date:** 08/30/2017 (mm/dd/yyyy)

STORET # G1SW0078 **WBID:** 1473Z **Latitude:** 28.11710556 (Decimal Degrees)

County: Hillsborough **RQ -** 2017-08-28-14 **ORG ID:** 21FLTPA **Longitude:** -82.57408889 (Decimal Degrees)

Receiving Body of Water: _____ **Field ID:** G1SW0078

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Curtis Musson		X	X	X	X
Jason Sparks	X		X		

Sampling Equipment

- [X] Sample Container
- [ ] Carboy
- [ ] Dipper
- [ ] Van Dorn
- [X] Syringe
- [ ] Other
- [ ] Pole

Equipment ID _____

Collection Method

- [ ] Wading
- [ ] From Shore
- [ ] Other (note below)

Via Boat
- [X] Canoe/Kayak
- [ ] Electric Motor
- [ ] Gasoline Motor

Water Level: Dry / Pooled / Low / Normal / High / (Flooded)

Matrix: (Fresh) / Marine / DI

Meter ID# Biology #2 **Photos:** (Yes) / No

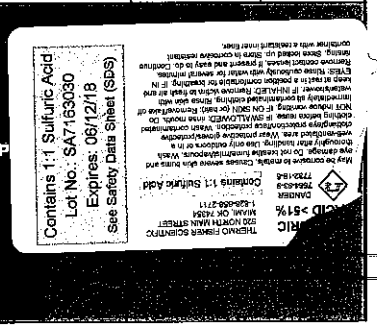
Tide Falling: Yes / No / (NA)

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	10:00	0.5	3.9	3.18	41.6	6.86	0.07	1.7	156	29.13
CEN	09:58	3.5		2.52	33.7	6.84	0.07		156	28.91

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

SBIO ID Numbers: SBIO-ID: 77947 RPS-ID: Macrophyte-ID: 10732 LIMS#: 1926847

Parameter Suite	Parameter Methods	Preservation	Acid Lot#	Expiration	pH Check
Preserved Nutrients	[X] W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	[X] Ice [X] H_2SO_4	SA7163030	06/12/17	[X] <2
Metals	[ ] W-ICPMS [ ] W-ICP	[ ] Ice [ ] HNO_3			[ ] <2
Filtered Nutrients	[X] W-PO4-F [X] Field Filtered 0.45 µm Filter	[X] Ice			
Chlorophyll	[X] CHLSUITE-W	[X] Ice			
Physical/Aggregate (Fresh)	[X] Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS	[X] 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:

Access granted by Yvonne Stoker 17016 Lk. James Rd.
813-920-7726. Call ahead, would like data
Kit A, LVI

RQ-2017-08-28-14
Date:
Time:
Field ID G1SW0078
STORET G1SW0078
James Lake

Signature: [signature] Date: 8/30/17

Field Parameters Entered into LIMS: SM 09/20/2017 a Biology (Initials/Date) Field Parameters QC in LIMS: _____ (Initials/Date)

Date Migrated to STORET: _____ (Initials/Date) Field Sheets Scanned/Saved: SM 09/28/2017 (Initials/Date)

WQAP-2017-08-31-03

G1SW0078

STATE OF FLORIDA, DEPARTMENT OF ENVIRONMENTAL PROTECTION
Lake Habitat Assessment Field Sheet

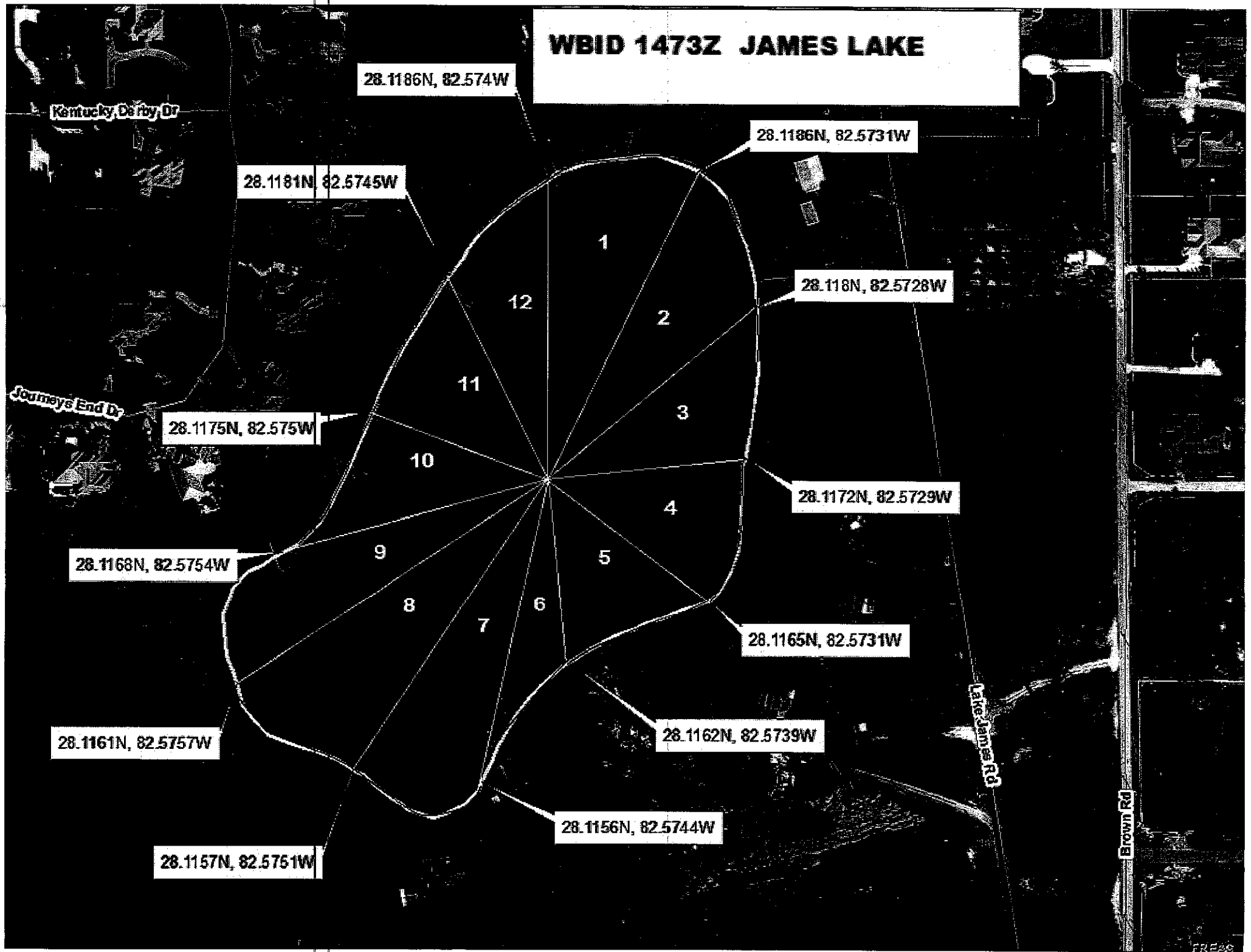
STORET STATION NUMBER: ~~[illegible]~~	DATE (M/D/Y) 8/30/17	LAKE NAME James lake	FIELD ID/ NAME: GBW0078
ECO-REGION:	COUNTY: Hillsborough	SAMPLING LOCATION/DESCRIPTION: James lake Center	LAKE SIZE:

PARAMETER				
HYDROLOGY	No surface inflow or outflow present, very long water residence time, groundwater seepage dominates ☐	Surface water inflow present, but flow is rare, moderate to long water residence time ☒	Surface water inflow and outflow present (or outflow only), sometimes with visible flow, short water residence time ☐	Impounded, hydrology of system artificially controlled ☐
Color	Very clear, uncolored water (benthic sampling appropriate) ☐	Water somewhat tannin stained (benthic sampling appropriate) ☐	Dark, discolored water (water color 20 PCU or higher) ☒	Visibility extremely reduced due to high color ☐

	Optimal					Suboptimal					Marginal					Poor				
Secchi [12]	Secchi >3 m				Secchi(m)	3	2.6	2.2	1.8	1.4	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.1
	Or VOB	20	19	18	17 / 16	15	14	13	(12)	11	10	9	8	7	6	5	4	3	2	1
Vegetation Quality [6]	Diverse, expected native vegetation (emergent or submersed), less than 5% nuisance taxa					Mostly expected native plants, but moderate growths (6%-20% of lake) of nuisance macrophytes, or more than 50% of lake covered with plants					Large masses (21%-40%) of nuisance macrophytes (e.g., Hydrilla, hyacinth, cattail, etc.) or algal mats					Lake choked (>40%) with nuisance macrophytes (duck-weed, hyacinth, etc.) or algal mats, or few plants present at all (e.g., plants removed)				
	20	19	18	17	16	15	14	13	12	11	10	9	8	7	(6)	5	4	3	2	1
Stormwater Inputs [8]	Stormwater enters system via sheet flow over non-cultivated and/or natural vegetation					Some direct stormwater inputs (ditches, pipes, cultivated vegetation < 10%) but good BMPs in place					Moderate direct inputs of stormwater (ditches, pipes, cultivated vegetation 11%-50%) but few BMPs in place					Much direct input of stormwater (ditches, pipes, cultivated vegetation > 51%) and no or ineffective BMPs in place				
	20	19	18	17	16	15	14	13	12	11	10	9	(8)	7	6	5	4	3	2	1
Bottom Substrate Quality [3]	Diverse mixture of sand, detritus, with small amounts of CPOM/mud/muck. SAV may be present					Mixture of sand or clay and detritus with higher % CPOM/mud/muck content. SAV may be present					Moderate layer of CPOM/ mud/muck, or hardpacked sand only, or moderate algal growth (mats or Chara) on bottom					Thick deposits of CPOM, or fine detritus and anaerobic muck/mud/silt, or algal growth or nuisance plants (Hydrilla) cover bottom				
	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	(3)	2	1
Lakeside Adverse Human Alternations [6]	Very few man-made structures, roads, or other disturbance adjacent to lake (<10%)					Moderate disturbance visible (structures, roads or other), 10%-49% lakeside affected					Many structures, roads or other human disturbance visible (50%-70%) lakeside affected)					Highly developed or disturbed (>70% of lakeside affected)				
	20	19	18	17	16	15	14	13	12	11	10	9	8	7	(6)	5	4	3	2	1
Upland Buffer Zone [5]	Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18 m buffer					89%-51% of shoreline with >18m buffer or >75% with 10m to 18m buffer					50%-30% of shoreline with >18m buffer or 50%-74% with 10m to 18m buffer					< 29% of shoreline with >18m buffer				
	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	(5)	4	3	2	1
~~Adverse Watershed Land Use~~ ~~[illegible]~~ 13	~~Score the potential effects from adverse human land uses, based on a continuum of amount and type, with least to most adverse as follows: Native vegetation, Silviculture, Pasture or Citrus, Low Density Residential, Row Crops, Commercial, High Density Residential, Urban, Industrial~~																			
	20	19	18	17	~~(16)~~	15	14	(13)	12	11	10	9	8	7	6	5	4	3	2	1

TOTAL SCORE: 53	COMMENTS:

ANALYSIS DATE: 8/30/17	ANALYST: C. Musson, J. Storrs	SIGNATURE: [signature]


WBID 1473Z JAMES LAKE
28.1186N, 82.574W
28.1186N, 82.5731W
28.1181N, 82.5745W
28.118N, 82.5728W
28.1175N, 82.575W
28.1172N, 82.5729W
28.1168N, 82.5754W
28.1165N, 82.5731W
28.1161N, 82.5757W
28.1162N, 82.5739W
28.1156N, 82.5744W
28.1157N, 82.5751W
1
2
3
4
5
6
7
8
9
10
11
12
Kentucky Derby Dr
Journeys End Dr
Lake James Rd
Brown Rd

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: 77947 MACROPHYTE ID: 10732 LATITUDE: 28.11710556
COUNTY: Hillsborough STORET #: 61SW0078 LONGITUDE: -82.57408889
DATE: 8-30-17 TIME: 10:00 SAMPLING AGENCY: FDEP
SITE NAME: James Lake Center WBID: 1473Z
FIELD ID/NAME: 61SW 0078 LAKE SIZE: _____ RQ: 2017-08-28-14

WATERSHED / LAKESIDE FEATURES

PREDOMINANT LAND USE IN WATERSHED (specify relative percent in each category – from GIS):

Forest/Natural	Silviculture	Field/Pasture	Agricultural	Residential	Commercial	Industrial	Other (Specify)
50				50			

LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer) LDI: _____

Land Use Source & Year:

Local Watershed Erosion (select one): ☐ None ☒ Slight ☐ Moderate ☐ Heavy

Local Watershed NPS Pollution: ☐ No evidence ☐ Slight ☒ Moderate ☐ Heavy

Artificially Impounded ☐ Yes ☒ No

STORMWATER INPUTS 8	Stormwater enters system via sheet flow over non-cultivated and/or natural vegetation (20 19 18 17 16)	Some direct stormwater inputs (ditches, pipes, cultivated vegetation < 10%) but good BMPs in place (15 14 13 12 11)	Moderate direct inputs of stormwater (ditches, pipes, cultivated vegetation 11%-50%) but few BMPs in place (10 9 **8** 7 6)	Much direct input of stormwater (ditches, pipes, cultivated vegetation > 51%) and no or ineffective BMPs in place (5 4 3 2 1)
LAKESIDE ALTERATIONS 6	Very few man-made structures, roads, or other disturbance adjacent to lake (<10% lakeside affected) (20 19 18 17 16)	Moderate disturbance visible - structures, roads or other (10%-49% lakeside affected) (15 14 13 12 11)	Many structures, roads or other human disturbance visible (50%-70% lakeside affected) (10 9 8 7 **6**)	Highly developed or disturbed (>70% of lakeside affected) (5 4 3 2 1)
BUFFER ZONE 5	Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18 m buffer (20 19 18 17 16)	89%-51% of shoreline with >18m buffer or >75% with 10m to 18m buffer (15 14 13 12 11)	50%-30% of shoreline with >18m buffer or 50%-74% with 10m to 18m buffer (10 9 8 7 6)	< 29% of shoreline with >18m buffer (**5** 4 3 2 1)

WATER / SUBSTRATE / BIOLOGICAL: SAMPLES AND OBSERVATIONS

Water:

Nutrient Sample Taken? ☒ Yes ☐ No Preserved? ☒ Yes ☒ pH<2 ☐ No

Color Sample Taken? ☒ Yes ☐ No Lot # 7163030 Exp. Date: ~~6/12/18~~ 6/12/18

Alkalinity Sample Taken? ☒ Yes ☐ No

Water Level ☐ Low ☐ Normal ☒ High

Water Odors: ☒ Normal ☐ Sewage ☐ Petroleum ☐ Other _____

Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other _____

Meter Readings:	Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat. (%)	Cond. (UMHO/CM)	Salinity (PPT)
Top:	0.5	29.13	6.86	3.18	41.6	156	0.07
Mid-Depth:							
Bottom:	3.9	28.91	6.84	2.52	33.7	156	0.07

Meter ID: _____

Clarity: ☐ Clear ☒ Opaque ☐ Turbid ☐ Slightly Turbid

Color: ☐ Clear ☒ Tannic ☐ Green

SECCHI (M): 1.7 VOB ☐

Total Station Depth (M): 3.9

Sediment Type: (may check more than one) Sample Taken? ☐ Yes ☒ No

☐ Sandy ☒ Organic fibrous (peaty, CPOM) ☐ Vegetated

☐ Sand/Silt ☐ Organic smooth (muck) ☐ Other (Specify): _____

Sediment Odors: ☐ Normal ☐ Other (Specify): ☒ Anaerobic

Biological Communities:

LVI Conducted? ☒ Yes ☐ No

Phytoplankton Sample Taken? ☐ Yes ☒ No

Sample Preserved? ☐ Yes ☐ No

Lot #: _____ Exp Date: _____

Algal Bloom/Algal ID Sample Taken? Yes ~~No~~

Active Vegetation Mgmt? ☐ Yes ☒ No ☐ Don't Know

Abundance:

	Absent	Rare	Common	Abundant
Periphyton	☐	☒	☐	☐
Nuisance Plants	☐	☐	☐	☒
Submersed Plants	☐	☒	☐	☐
Exotic Apple Snails	☒	☐	☐	☐

Additional Notes: Heavy Rain the 2 days Before

Weather Conditions: 90's, Clear Skys, No rain

SAMPLING TEAM: C. Musson, J. Stoffes SIGNATURE: _____ DATE: 8/30/17

Form FD9000-27 Lake Vegetation Index Data Sheet (06-21-11)

Waterbody: James Lake	County: Hillsborough	Date: 8/30/17
Analyst: C. Misson / J Storres	Signature: [signature]	STORET: G1SW0078

Except where noted as "sp." species level identification required. *Genera that may require lab verification*
Plants in bold= FLEPPC invasive exotic.

It is important to note dominant or co-dominant taxa (by areal extent) for each unit. Use "D" to denote dominant taxon, or "C" for the 2 co-dominant taxa.

Lake units sampled (circle one group): 1, 4, 7, 10 | 2, 5, 8, 11 | (3, 6, 9, 12) [circled]

SPECIES	3	6	9	12	Collected? (√)	SPECIES	3	6	9	12	Collected? (√)
Acer rubrum				X		Habenaria repens		X			
Alternanthera philoxeroides						**Hydrilla verticillata**					
Andropogon sp.						Hydrocotyle sp.	X	X	X	X	
Azolla filiculoides (A. caroliniana)						**Hygrophila polysperma**					
Baccharis sp.						*Hypericum fasciculatum					
Bacopa caroliniana						*Hypericum hypericoides		X			
Bacopa monnieri						*Hypericum myrtifolium					
Bidens laevis						Ilex cassine	X		X		
Bidens mitis						**Ipomoea aquatica**					
Blechnum serrulatum	D		X	X		Ipomoea sagittata					
Boehmeria cylindrica						Itea virginica					
Brasenia schreberi						Juncus effusus					
Cabomba caroliniana						*Juncus marginatus					
Casuarina equisitifolia						*Juncus megacephalus					
Centella asiatica						Juncus repens					
Cephalanthus occidentalis	X	X	X	X		*Juncus scirpoides					
Ceratophyllum demersum						Lachnanthes caroliniana			X		
Chara sp.						Leersia hexandra					
Cladium jamaicense						**Landoltia punctata (Spirodela punctata)**					
Cliftonia monophylla						Lemna sp.					
Colocasia esculenta						Leucothoe racemosa (Eubotrys racemosa)					
*Commelina ______						Limnobium spongia					
Crinum americanum						**Limnophila sessiliflora**					
***Cyperus alternifolius** (C. involucratus)						Liquidamber styraciflua					
Cyperus articulatus						*Ludwigia arcuata	X	X			
Cyperus haspan	X					*Ludwigia leptocarpa					
*Cyperus lecontei						*Ludwigia linearis					
*Cyperus polystachyos						*Ludwigia octovalvis					
*Cyperus odoratus	X	X	X	X		***Ludwigia peruviana**	X	D	D	D	
*Cyperus surinamensis						*Ludwigia repens					
Cyrilla racemiflora						*Ludwigia ______					
Decodon verticillatus						Luziola fluitans (Hydrochloa carolinensis)					
Diodia virginiana						Lyonia lucida					
*Echinochloa crus-galli						Magnolia virginiana					
*Echinochloa muricatum						Mayaca fluviatilis					
Echinochloa walteri						**Melaleuca quinquenervia**		X		X	
Eclipta prostrata (E. alba)						Micranthemum glomeratum	X				
Egeria densa						Micranthemum umbrosum					
Eichhornia crassipes						Mikania scandens	X	X	X	X	
*Eleocharis baldwinii	X	X	X	X		**Mimosa pigra**					
*Eleocharis vivipara	X	X	X	X		Myrica cerifera	X		X		
Eleocharis cellulosa						Lycopus virginicus	X	X	X	X	
Eleocharis equisetoides						~~Boston fern~~ DA		~~X~~	~~X~~	~~D?~~	
Eleocharis interstincta						* ~~unknown sp.~~ Tilosa? ~~bush~~				~~X~~	
*Eriocaulon compressum						~~Yesterday ashley~~					
*Eriocaulon decangulare											
Eupatorium capillifolium	X		X	X		Nephrolepis sp		X	X		
*Fuirena ______											
Fuirena scirpoidea						Cyperus sp.				X	
Gordonia lasianthus											

Site: James

Date: 08/30/2017

SPECIES	3	6	9	12	Collected? (√)
Myriophyllum aquaticum					
*Myriophyllum heterophyllum					
*Myriophyllum laxum					
*Myriophyllum pinnatum					
Myriophyllum spicatum					
*Najas filifolia					
*Najas guadalupensis					
*Najas minor					
Nelumbo lutea					
Nitella spp.					
Nuphar sp.	X		X	X	
Nymphaea odorata					
Nymphoides aquatica					
Nyssa sylvatica var. biflora					
Orontium aquaticum					
Osmunda cinnamomea					
Osmunda regalis			X		
Panicum hemitomon	X				
Panicum repens	X		X	X	
Paspalidium geminatum					
*Paspalum repens					
Paspalum urvillei					
Peltandra sp.					
Persea sp.	X		X		
Pennisetum purpureum					
Phragmites australis					
Pinus elliottii	X		X		
Pistia stratioides					
Pluchea sp.					
*Polygonum glabrum (densiflorum)					
*Polygonum hydropiperoides					
*Polygonum punctatum					
*Polygonum					
Pontederia cordata	X	X	X	X	
*Potamogeton diversifolius					
*Potamogeton illinoensis					
*Potamogeton pusillus					
*Potamogeton pectinatus (Stuckenia pectinatus)					
Proserpinaca pectinata					
*Rhexia			X		
*Rhynchospora corniculata					
*Rhynchospora inundata					
Rhynochospora tracyi					
Ricciocarpus natans					
Sabal palmetto					
Sacciolepis striata					
*Sagittaria filiformis					
*Sagittaria graminea					
*Sagittaria isoetiformis					
Sagittaria lancifolia					
Sagittaria latifolia					

SPECIES	3	6	9	12	Collected? (√)
Salix caroliniana		X			
Salvinia minima	X	X	X	X	
Sambucus canadensis					
Sapium sebiferum					
Saururus cernuus					
Schinus terebinthifolius					
*Schoenoplectus californicus					
*Schoenoplectus pungens					
*Schoenoplectus tabernaemontani (Scirpus validus)					
Scirpus cubensis (Oxycaryon cubense)					
Scirpus cyperinus					
*Sesbania					
Solidago sp.					
Sparganium americanum					
Spartina bakeri					
Spirodela polyrhiza					
Taxodium sp.	X		X	X	
Thalia geniculata					
Thelypteris palustris					
Triadenum virginicum	X	X	X	X	
Typha sp.	X	X	X	X	
Urochloa mutica (Brachiaria mutica)					
*Utricularia gibba (U. biflora)					
*Utricularia floridana					
*Utricularia foliosa					
*Utricularia inflata					
*Utricularia purpurea					
*Utricularia cornuta					
*Utricularia radiata					
Vallisneria americana					
*Websteria confervoides					
Wedelia trilobata (Sphagneticola trilobata)					
Wolffiella spp.					
Woodwardia virginica					
Xyris sp.			X		
Zizania aquatica					
Zizaniopsis milacea					
utricleria unknown photo purpurea →			X	X	

Request Number: ~~RQ-2017-09-04-33~~

SMP_MISC LAKES 2017-08-28-14

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Apr 7, 2016

Customer: WQAP

Project ID: SMP

Requester: Judy Ashton

Collected By: Musson, Storms

Field Report Prepared By: Curtis Musson

Sampling Agency: FDEP

Location: James Lake
RQ-2017-08-28-14
Date: 8-30-17
Time: 1000
Field ID: G1SW0078
STORET: G1SW0078

Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 8-30-17 Time 10:00 Eastern Central | Composite end Date / Time / | Bottle Group(s) (See pg 2): A

Matrix (type, e.g., ~~Salt~~ Fresh, etc): Fresh | Diss. Oxygen: 3.18 ☒ mg/L ☐ % sat | Total Res. Chlorine (mg/L): /

Temp (C): 29.13 | pH: 6.86 | Sample Depth: 0.3 ☐ ft ☒ m | Sp. Conductance (umho/cm): 156

Salinity (ppt): 0.07 | Comments: LVI

Location: Calm Lake
RQ-2017-08-28-14
Date: 8-30-17
Time: 12:00
Field ID: G1SW0040
STORET: G1SW0040

Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 8-30-17 Time 1200 Eastern Central | Composite end Date / Time / | Bottle Group(s): A

Matrix (type, e.g., Salt Fresh, etc): Fresh | Diss. Oxygen: 6.20 ☒ mg/L ☐ % sat | Total Res. Chlorine (mg/L): /

Temp (C): 30.06 | pH: 6.32 | Sample Depth: 0.3 ☐ ft ☒ m | Sp. Conductance (umho/cm): 131

Salinity (ppt): 0.06 | Comments: LVI

Location: Horse Lake
RQ-2017-08-28-14
Date: 8-30-17
Time: 1320
Field ID: G1SW0084
STORET: G1SW0084

Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 8-30-17 Time 1320 Eastern Central | Composite end Date / Time / | Bottle Group(s): A

Matrix (type, e.g., Salt Fresh etc): Fresh | Diss. Oxygen: 3.20 ☒ mg/L ☐ % sat | Total Res. Chlorine (mg/L): /

Temp (C): 28.72 | pH: 5.45 | Sample Depth: 0.3 ☐ ft ☒ m | Sp. Conductance (umho/cm): 114

Salinity (ppt): 0.05 | Comments: LVI

Location: Williams Lake
RQ-2017-08-28-14
Date: 8-30-17
Time: 1425
Field ID: G1SW0071
STORET: G1SW0071

Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 8-30-17 Time 1425 Eastern Central | Composite end Date / Time / | Bottle Group(s): A

Matrix (type, e.g., Salt Fresh, etc): Fresh | Diss. Oxygen: 6.60 ☒ mg/L ☐ % sat | Total Res. Chlorine (mg/L): /

Temp (C): 31.35 | pH: 6.68 | Sample Depth: 0.3 ☐ ft ☒ m | Sp. Conductance (umho/cm): 176

Salinity (ppt): 0.08 | Comments: LVI

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Curtis Musson	8/30/17 1456	Fedex	2		

Courtesy

Group: A	Bottle Type: P-1L	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	5
	ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS					
Group: A	Bottle Type: BP-1L	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	5
	CHLSUITE-W					
Group: A	Bottle Type: P-500ML	# of Bottles: 6	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	5
	W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC					
Group: A	Bottle Type: P-125ML	# of Bottles: 6	Preservative:	ICE-FLTR	Enter Number of Bottles Sent to Lab	5
	W-PO4-F					
Group: B	Bottle Type: QPCR-P-250ML	# of Bottles: 8	Preservative:	ICE	Enter Number of Bottles Sent to Lab	5 0
	PCR-FILTER PCR-HF183					
Group: B	Bottle Type: P-120ML-WC-THI	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	0
	SWD-AEL-EC					
Group: B	Bottle Type: BG-1L	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	0
	W-AHERB-AA W-SUC-AA-R W-UHERB-AA					