



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2017

A-KIT

PAGE 1 OF

Data Qualified?
Yes / No

STORET Station Name: Round Lake Date: 8-29-17
(mm/dd/yyyy)
STORET Station ID: G1SW0081 WBID: 1478B Latitude: 28.12077222
(Decimal Degrees)
County: Hillsborough RQ: 2017-08-28-14 ORG ID: 21FLTPA Longitude: -82.50016111
(Decimal Degrees)
Receiving Body of Water: _____ Field ID: G1SW0081

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
J. Ashton			X		X	
L. Bachler		X		X		

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 / <u>High</u> / Flooded		Matrix:		Fresh / Marine / DI				
Meter ID#		Busta		Photos:		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°)
EST	1415	0.3	3.6	5.3	69	7.5	0.13	1.2	270	29.7
CEN		3.1		4.8	63	7.5	0.13		271	29.7

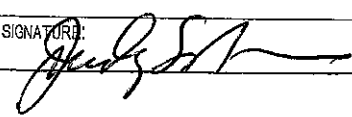
Biological Samples Collected:		None HA SCI RPS Algae ID LVS <u>LVI</u> Other _____			
SBIO ID Numbers:		SBIO-ID: <u>77977</u> RPS-ID: _____ Macrophyte-ID: <u>10740</u> LIMS#: <u>1926438</u>			
Parameter Suite	Parameter Methods	Preservation	Acid Lot#	Expiration	pH Check
Preserved Nutrients	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☒ Ice ☒ H2SO4	<u>7093010</u>	<u>04/18</u>	☒ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3			☐ <2
Filtered Nutrients	☒ W-PO4-F ☐ Field Filtered 0.45 um 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 ☐ Enteroc ☐ PCR-FILTER	☐ Ice			
Tracers	☐ W-SUC-AA-R ☐ W-UHERB-AA	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R	☐ Ice			
	☐ W-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH	☐ Other			
Flow	"J" Qualify Flow				

Notes:	RQ-2017-08-28-14	Date: 08-29-2017	Field ID: <u>G1SW0081</u>
		Time: _____	STORET: <u>G1SW0081</u>
		Round Lake	
Signature: <u>L. Bachler</u>		Date: <u>8-29-17</u>	

Field Parameters Entered into LIMS: <u>09/20/2017 SM & Biology</u>	Field Parameters QC in LIMS: _____
Date Migrated to STORET: _____	Field Sheets Scanned/Saved: <u>SM 10/08/2017</u>

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

STORET STATION NUMBER: G1SW0081	DATE (M/D/Y) 8-29-17	LAKE NAME Round Lake		FIELD ID / NAME: G1SW0081
ECO-REGION:	COUNTY: Hillsborough	SAMPLING LOCATION/DESCRIPTION: Center of Lake		LAKE SIZE: Small
PARAMETER	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 ☐
HYDROLOGY				
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	Secchi > 3 m Or VOB	Secchi (m)		
	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Vegetation Quality	Diverse, expected native vegetation (emergent or submersed), less than 5% nuisance taxa 14	Mostly expected native plants, but moderate growths (6%-20% of lake) of nuisance macrophytes, or more than 50% of lake covered with plants 14	Large masses (21%-40%) of nuisance macrophytes (e.g., Hydrilla, hyacinth, cattail, etc.) or algal mats 11	Lake choked (>40%) with nuisance macrophytes (duckweed, hyacinth, etc.) or algal mats, or few plants present at all (e.g., plants removed) 11
Stormwater Inputs	Stormwater enters system via sheet flow over non-cultivated and/or natural vegetation 17	Some direct stormwater inputs (ditches, pipes, cultivated vegetation < 10%) but good BMPs in place 14	Moderate direct inputs of stormwater (ditches, pipes, cultivated vegetation 11%-50%) but few BMPs in place 11	Much direct input of stormwater (ditches, pipes, cultivated vegetation > 51%) and no or ineffective BMPs in place 11
Bottom Substrate Quality	Diverse mixture of sand, detritus, with small amounts of CPOM/mud/muck. SAV may be present 15	Mixture of sand or clay and detritus with higher % CPOM/mud/muck content. SAV may be present 15	Moderate layer of CPOM/mud/muck, or hardpacked sand only, or moderate algal growth (mats or Chara) on bottom 11	Thick deposits of CPOM, or fine detritus and anaerobic muck/mud/silt, or algal growth or nuisance plants (Hydrilla) cover bottom 11
Lakeside Adverse Human Alterations	Very few man-made structures, roads, or other disturbance adjacent to lake (<10%) 12	Moderate disturbance visible (structures, roads or other), 10%-49% lakeside affected 12	Many structures, roads or other human disturbance visible (50%-70%) lakeside affected 11	Highly developed or disturbed (>70% of lakeside affected) 11
Upland Buffer Zone	Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18 m buffer 10	89%-51% of shoreline with >18m buffer or >75% with 10m to 18m buffer 12	50%-30% of shoreline with >18m buffer or 50%-74% with 10m to 18m buffer 11	< 29% of shoreline with >18m buffer 11
Adverse Watershed Land Use	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 12			
TOTAL SCORE	91	COMMENTS:		

ANALYSIS DATE:
08/29/2017ANALYST:
J Ashton & L BachlerSIGNATURE:


DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: GISW0081 MACROPHYTE ID: 10740 LATITUDE: 28.12077222
 COUNTY: Hillsborough STORET #: GISW0081 LONGITUDE: -82.50016111
 DATE: 8-29-17 TIME: 1415 SAMPLING AGENCY: FDEP
 SITE NAME: Round Lake WBID: 14783
 FIELD ID/NAME: GISW0081 LAKE SIZE: Small RQ: 2017-08-28-14

WATERSHED / LAKESIDE FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category – from GIS): Forest/Natural ☒ 20 ☐ Silviculture ☐ Field/Pasture ☐ 10 ☐ Agricultural ☐ Residential ☒ 80 ☐ Commercial ☐ Industrial ☐ Other (Specify) ☐						LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer) LDI:			
Local Watershed Erosion (select one): ☒ None ☐ Slight ☐ Moderate ☐ Heavy						Artificially Impounded ☐ Yes ☒ No			
Local Watershed NPS Pollution: ☐ No evidence ☐ Slight ☒ Moderate ☐ Heavy						Land Use Source & Year:			
STORMWATER INPUTS <u>17</u>		Stormwater enters system via sheet flow over non-cultivated and/or natural vegetation 20 19 18 <u>17</u> 16		Some direct stormwater inputs (ditches, pipes, cultivated vegetation < 10%) but good BMPs in place 15 14 13 <u>12</u> 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 <u>12</u>		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 <u>12</u> 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 <u>10</u>		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 <u>10</u> 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 ☐ No pH < 2 ☐ No Color Sample Taken? ☒ Yes ☐ No Lot # <u>7093010</u> Exp. Date: <u>04118</u> Alkalinity Sample Taken? ☒ Yes ☐ No Water Level ☐ Low ☐ Normal ☒ High						Water Odors: ☒ Normal ☐ Sewage ☐ Petroleum ☐ Other	
Meter Readings: Top: Depth (M) <u>0.3</u> Temp. (°C) <u>29.7</u> pH (SU) <u>7.5</u> D.O. (MG/L) <u>5.3</u> D.O. Sat. (%) <u>69</u> Cond. (UMHO/CM) <u>270</u> Salinity (PPT) <u>0.13</u> Mid-Depth: Bottom: <u>3.1</u> <u>29.7</u> <u>7.5</u> <u>4.8</u> <u>63</u> <u>271</u> <u>0.13</u>						Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other	
Meter ID: <u>Busta</u>						Clarity: ☒ Clear ☐ Opaque ☐ Turbid ☐ Slightly Turbid Color: ☒ Tannic ☐ Clear ☐ Green	
Sediment Type: (may check more than one) ☒ Sandy ☐ Organic fibrous (peaty, CPOM) ☐ Vegetated ☐ Sand/Silt ☒ Organic smooth (muck) ☐ Other (Specify):						SECCHI (M) <u>1.2</u> Total Station Depth (M) <u>3.6</u> VOB ☐	
Sample Taken? ☐ Yes ☒ No						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:	
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Weather Conditions: <u>Rainy, Cloudy</u>		
SAMPLING TEAM: <u>L. Bucher, J. Ashton</u>	SIGNATURE: <u>[Signature]</u>	DATE: <u>8-29-17</u>

Site: Round Lake

Date: 08/29/2017

SPECIES	1	4	7	10	Collected? (v)	SPECIES	1	4	7	10	Collected? (v)
Myriophyllum aquaticum						Salix caroliniana		X			
*Myriophyllum heterophyllum						Salvinia minima	X	X			
*Myriophyllum laxum						Sambucus canadensis					
*Myriophyllum pinnatum						Sapium sebiferum		X			
Myriophyllum spicatum						Saururus cernuus					
*Najas filifolia						Schinus terebinthifolius	X	X			
*Najas guadalupensis						*Schoenoplectus californicus					
*Najas minor						*Schoenoplectus pungens					
Nelumbo lutea						*Schoenoplectus tabernaemontani (Scirpus validus)					
Nitella spp.						Scirpus cubensis (Oxycaryon cubense)					
Nuphar sp.	X	X	X	X		Scirpus cyperinus					
Nymphaea odorata						*Sesbania					
Nymphoides aquatica						Solidago sp.					
Nyssa sylvatica var. biflora						Sparganium americanum					
Orontium aquaticum						Spartina bakeri					
Osmunda cinnamomea						Spirodela polyrhiza					
Osmunda regalis						Taxodium sp.	X	X	X	X	
Panicum hemitomon	X	X	X	X		Thalia geniculata	X	X			
Panicum repens	X	X	X	X		Thelypteris palustris					
Paspalidium geminatum						Triadenum virginicum					
*Paspalum repens			X			Typha sp.		X	X	X	
Paspalum urvillei		X				Urochloa mutica (Brachiaria mutica)		X			
Peltandra sp.						*Utricularia gibba (U. biflora)					
Persea sp.						*Utricularia floridana					
Pennisetum purpureum						*Utricularia foliosa					
Phragmites australis						*Utricularia inflata					
Pinus elliotii						*Utricularia purpurea					
Pistia stratioides						*Utricularia cornuta					
Pluchea sp.						*Utricularia radiata					
*Polygonum glabrum (densiflorum)						Vallisneria americana					
*Polygonum hydropiperoides						*Websteria confervoides					
*Polygonum punctatum						Wedelia trilobata (Sphagneticola trilobata)					
*Polygonum						Wolffiella spp.					
Pontederia cordata	X	X	X	X		Woodwardia virginica					
*Potamogeton diversifolius						Xyris sp.					
*Potamogeton illinoensis						Zizania aquatica					
*Potamogeton pusillus						Zizaniopsis milacea					
*Potamogeton pectinatus (Stuckenia pectinatus)						Ruellia	X				
Proserpinaca pectinata											
*Rhexia											
*Rhynchospora corniculata											
*Rhynchospora inundata											
Rhynchospora tracyi											
Ricciocarpus natans											
Sabal palmetto											
Sacciolepis striata											
*Sagittaria filiformis											
*Sagittaria graminea											
*Sagittaria isoetiformis											
Sagittaria lancifolia											
Sagittaria latifolia											

Request Number: RQ-2017-08-28-14

Lakes-A-kits

Florida Department of Environmental Protection

Central Laboratory Submittal Form

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last revised Apr 7, 2016

Customer: WQAP

Project ID: SMP

Requester: Judy Ashton

Field Report Prepared By: L. Bachler

Collected By: Curtis Musson

Sampling Agency: FDEP

Location		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 8-29-17 Time 1055		☒ Eastern ☐ Central		Composite end Date Time		Bottle Group(s) (See pg 2)	
Field ID	RQ-2017-08-28-14 Date:	Field ID	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L)		A
STORET #	Time:	STORET	Temp (C)		pH		Sample Depth		Sp. Conductance (umho/cm)		
Latitude	Wood Lake	STORET	Salinity (ppt)		Comments		☐ ft ☒ m				
		☐ dd ☐ dms		0.06		LVI					
Location		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 8-29-17 Time 1040		☒ Eastern ☐ Central		Composite end Date Time		Bottle Group(s)	
Field ID	RQ-2017-08-28-14 Date:	Field ID	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L)		A
STORET #	Time:	STORET	Temp (C)		pH		Sample Depth		Sp. Conductance (umho/cm)		
Latitude	Lake Virginia	STORET	Salinity (ppt)		Comments		☐ ft ☒ m				
		☐ dd ☐ dms		0.08							
Location		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 8-29-17 Time 1415		☒ Eastern ☐ Central		Composite end Date Time		Bottle Group(s)	
Field ID	RQ-2017-08-28-14 Date:	Field ID	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L)		A
STORET #	Time:	STORET	Temp (C)		pH		Sample Depth		Sp. Conductance (umho/cm)		
Latitude	Round Lake	STORET	Salinity (ppt)		Comments		☐ ft ☒ m				
		☐ dd ☐ dms		0.13							
Location		☐ Comp ☐ Grab		Collection (comp begin or grab) Date Time		☐ Eastern ☐ Central		Composite end Date Time		Bottle Group(s)	
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☐ mg/L ☐ % sat		Total Res. Chlorine (mg/L)			
STORET #		Temp (C)		pH		Sample Depth		Sp. Conductance (umho/cm)			
Latitude		Salinity (ppt)		Comments							
		☐ dd ☐ dms									

Relinquished By: L. Bachler	Date/Time: 8-29-17 1530	Shipping Method: FedEx	Number of Coolers Shipped: 2	Received By: G.A.	Date/Time: 8/30/17 10:29
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Group: A Bottle Type: P-1L # of Bottles: 17 Preservative: ICE Enter Number of Bottles Sent to Lab 3

ALKALINITY
TURBIDITY
W-CL-IC
W-COLOR
W-F
W-SO4-IC
W-TDS
W-TSS

Group: A Bottle Type: BP-1L # of Bottles: 17 Preservative: ICE Enter Number of Bottles Sent to Lab 3

CHLSUITE-W

Group: A Bottle Type: P-500ML # of Bottles: 17 Preservative: ICE And H2SO4 Enter Number of Bottles Sent to Lab 3

W-NH3
W-NO2NO3
W-S-A-TP
W-TKN
W-TOC

Group: A Bottle Type: P-125ML # of Bottles: 17 Preservative: ICE-FLTR Enter Number of Bottles Sent to Lab 3

W-PO4-F