



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

WIN Station Name: Branwood Dr Pond

WIN/ Field ID: G2SW0074

Date: 05/20/2019
(mm/dd/yyyy)

County: Hillsborough

WBID: _____

Latitude: _____

ORG ID: 21FLTPA

Longitude: _____

Receiving Body of Water: N/A

(Decimal Degrees)

(Decimal Degrees)

RQ-2019- 05-06-16

Sampling Team Members

Ben Paswater
Judy Ashton
Sarah Meyer

WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check

Sampling Equipment

- ☒ Sample Container ☐ Van Dorn ☐ Pole
☐ Carboy ☐ Syringe
☐ Dipper ☐ Other _____

Depth Measured with: Secchi
Equipment ID Secchi #1

Collection Method

- ☐ Wading ☒ Canoe/Kayak
☐ From Shore ☐ Electric Motor
☐ Other _____ ☐ Gasoline Motor

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

Photos: ☒ Yes ☐ No

Flow: No Flow / Interstitial / Flowing NA

Meter ID# Chewy

Matrix: Fresh / Marine / DI

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	1335	2.8	0.3	1.2	8.84	116.9	7.17	0.13	273.8	30.1
			2.3		4.96	64.6	6.58	0.13	274.0	28.6

Biological Samples Collected:

None

HA

SCI

RPS

Algae ID

LVS

LVI

Other:

SBIO ID Numbers:

SBIO-ID: 79836

HA-ID: 16078

RPS-ID: _____

Macrophyte-ID: 11388

LIMS#: 2088016

Parameter Suite

Parameter Methods

Preservation

Lot#

Expiration

pH Check

Preserved Nutrients

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

Metals

☐ W-ICPMS ☐ W-ICP

Filtered Nutrients

☐ W-PO4-F ☐ Field Filtered 0.45 µm Filter

Chlorophyll

☐ CHLSUITE-W

Physical/Aggregate (Fresh)

☐ Alkalinity / W-F / W-TSS / TURBIDITY / W-CH-C / W-COLOR / W-SO4-IC / W-TDS

Physical/Aggregate (Marine)

☐ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY

Macroinvertebrates

☐ MI-FW-QLDC

Periphyton

☐ ALGAE-ID

Microbiology

☐ E Coli ☐ F Coli ☐ Enterococci

Molecular

☐ PCR-FILTER ☐ PCR-BacR ☐ PCR-GULL2
☐ PCR-HF183 ☐ PCR-DG3 ☐ PCR-GFD

Tracers

☐ W-E8321-DI ☐ W-E8321-MS

Pesticides

☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-E8321-DI
☐ W-PCL-SQ-R ☐ W-E8321-MS ☐ W-CARB-AA

Phytoplankton

☐ DTY-QN-C ☐ PKD-QN-C

Field ID/WIN

G2SW0074



Site Name: Branwood Dr Pond @ Center

Signature: _____

Sarah Meyer

Date: _____

05/20/2019

*T ID: 2019-05-22-01

WIN Import ID: 13805

eters, Verify Station ID In LIMS DMT: SM 06/19/2019

QC Station ID, Field Parameters In LIMS DMT: SM 08/06/2019

sheets

Migrate Data to WIN: SM 08/06/2019

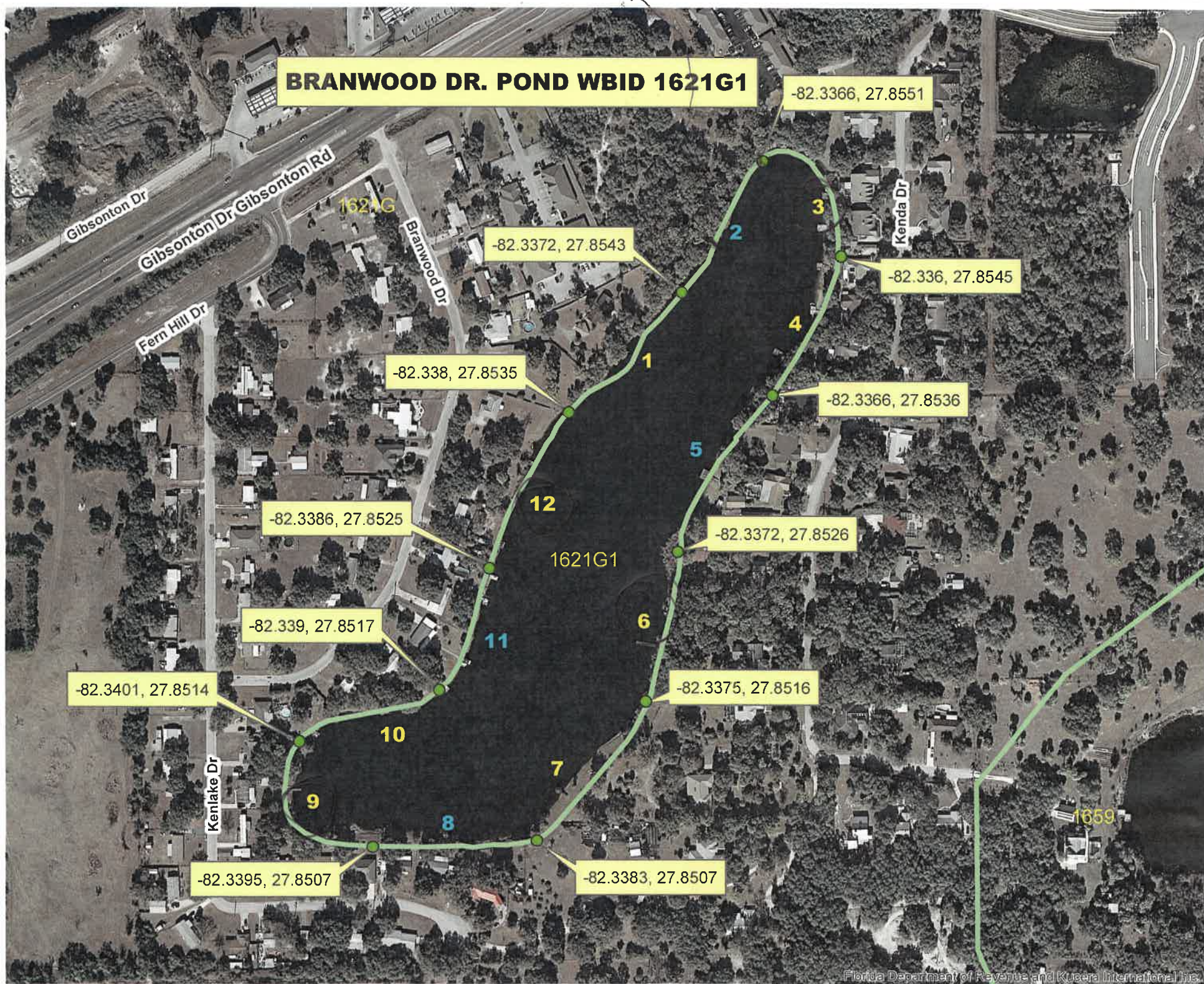
Verify Data In WIN: SM 09/05/2019

(Initials/Date)

(Initials/Date)

(Initials/Date)

BRANWOOD DR. POND WBID 1621G1



C15WD074 BRANWOOD DR POND 2 CENTER



Site Name: Branwood Dr Pond @ Center

Waterbody:

Signature: *Laura Meyer*

County: Hillsborough

Date: 05/20/2019

required. *Genera that may require lab verification*

Lake units sampled (circle one group):

1, 4, 7, 10 2, 5, 8, 11

3, 6, 9, 12

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.

SPECIES (A-F)	3	6	9	12	Collected? (✓)	SPECIES (G-L)	3	6	9	12	Collected? (✓)
Acer rubrum		X				Gordonia lasianthus		X			
Alternanthera philoxeroides	X	X		X		Habenaria repens					
Andropogon sp.			X			Hymenachne amplexicaulis					
Azolla filiculoides (A. caroliniana)						Hydrilla verticillata					
Baccharis sp.						Hydrocotyle sp.	X	X	X	X	
Bacopa caroliniana						Hygrophila polysperma					
Bacopa monnieri		X	X	X		*Hypericum fasciculatum					
Bidens laevis						*Hypericum hypericoides					
Bidens mitis						*Hypericum myrtifolium					
Blechnum serrulatum						Ilex cassine					
Boehmeria cylindrica						Ipomoea aquatica					
Brasenia schreberi						Ipomoea sagittata					
Cabomba caroliniana						Itea virginica					
Casuarina equisetifolia						Juncus effusus					
Centella asiatica		X				*Juncus marginatus	X				✓
Cephalanthus occidentalis						*Juncus megacephalus					
Ceratophyllum demersum						Juncus repens					
Chara sp.						*Juncus scirpoides					
Cladium jamaicense						Lachnanthes caroliniana					
Cliftonia monophylla						Leersia hexandra					
Colocasia esculenta						Landoltia punctata (Spirodela punctata)					
*Commelina						Lemna sp.					
Crinum americanum						Leucothoe racemosa (Eubotrys racemosa)					
*Cyperus alternifolius (C. involucratus)						Limnium spongia					
Cyperus articulatus						Limnophila sessiliflora					
Cyperus haspan						Liquidambar styraciflua					
*Cyperus lecontei						*Ludwigia arcuata					
*Cyperus polystachyos	X	X	X	X		*Ludwigia leptocarpa	X	X	X	X	
*Cyperus odoratus	X	X				*Ludwigia linearis					
*Cyperus surinamensis						*Ludwigia octovalvis	X	X	X	X	
Cynilla racemiflora						*Ludwigia peruviana	X	X	X	X	
Decodon verticillatus						*Ludwigia repens					
Diodia virginiana				X		*Ludwigia					
*Echinochloa crus-galli						Luziola fluitans (Hydrochloa carolinensis)					
*Echinochloa muricatum						Lyonia lucida					
Echinochloa walteri						Mock Bishop Weed Ptilimum	X	X			
Eclipta prostrata (E. alba)						Bidens alba	X	X			
Egeria densa						Fern - Thelypteris interrupta	X	X		X	✓
Eichhornia crassipes						Chinaberry Melia azedarach		X			
*Eleocharis baldwinii	X	X				Immature Juncus		X	X		
*Eleocharis						Cinnamomum camphora			X		
Eleocharis cellulosa											
Eleocharis equisetoides											
Eleocharis interstincta											
*Eriocaulon compressum											
*Eriocaulon decangulare											
Eupatorium capillifolium	X			X							
*Fuirena		X	X	X							
Fuirena scirpoidea											

Site: Branwood Dr PondDate: 05/20/2019

SPECIES (M-P)					Collected? (✓)	SPECIES (R-Z)					Collected? (✓)
	3	6	9	12			3	6	9	12	
Magnolia virginiana						*Rhexia					
Mayaca fluviatilis						*Rhynchospora corniculata					
Melaleuca quinquenervia			X			*Rhynchospora inundata					
Micranthemum glomeratum						Rhynchospora tracyi					
Micranthemum umbrosum						Ricciocarpus natans					
Mikania scandens	X	X	X	X		Sabal palmetto					
Mimosa pigra						Sacciolepis striata					
Myrica cerifera	X	X	X	X		*Sagittaria filiformis					
Myriophyllum aquaticum						*Sagittaria graminea					
*Myriophyllum heterophyllum						*Sagittaria isoetiformis					
*Myriophyllum laxum						Sagittaria lancifolia	X				
*Myriophyllum pinnatum						Sagittaria latifolia					
Myriophyllum spicatum						Salix caroliniana					
*Najas filifolia						Salvinia minima					
*Najas guadalupensis						Sambucus canadensis					
*Najas minor						Sapium sebiferum			X		
Nelumbo lutea						Saururus cernuus					
Nitella spp.						Schinus terebinthifolius		X		X	
Nuphar sp.						*Schoenoplectus californicus (Cali bulrush)					
Nymphaea odorata						*Schoenoplectus pungens (three square)					
Nymphoides aquatica						*Schoenoplectus tabernaemontani (softstem)					
Nyssa sylvatica var. biflora						Scirpus cubensis (Oxycaryon cubense)					
Orontium aquaticum						Scirpus cyperinus					
Osmunda cinnamomea						*Sesbania					
Osmunda regalis						Solidago sp.					
Panicum hemitomon		X				Sparganium americanum					
Panicum repens	X	X	X	X		Spartina bakeri					
Paspalidium geminatum						Sphagneticola trilobata (Wedelia)					
*Paspalum repens						Spirodela polyrhiza					
Paspalum urvillei						Taxodium sp.	X	X			
Peltandra sp.						Thalia geniculata					
Persea sp.		X				Thelypteris palustris					
Pennisetum purpureum						Triadenum virginicum					
Phragmites australis						Typha sp.	X	X	X	X	
Pinus elliotii						Urochloa mutica (Brachiaria mutica)					
Pistia stratioides						*Utricularia gibba (U. biflora)					
Pluchea sp.	X	X	X			*Utricularia floridana					
*Polygonum glabrum (densiflorum)						*Utricularia foliosa					
*Polygonum hydropiperoides						*Utricularia inflata					
*Polygonum punctatum						*Utricularia purpurea					
*Polygonum sp.						*Utricularia cornuta					
Pontederia cordata						*Utricularia radiata					
*Potamogeton diversifolius						Vallisneria americana					
*Potamogeton illinoensis						*Websteria confervoides					
*Potamogeton pusillus						Wolffiella spp.					
*Potamogeton pectinatus						Woodwardia virginica - areolata	X				
Proserpinaca pectinata						Xyris sp.					
Netophyllum	X	X	X	X		Zizania aquatica					
Quercus nigra			X	X		Zizaniopsis milacea					
						Setaria parviflora geniculata	X				
						Urena lobata		X			



Site Name: Branwood Dr Pond @ Center

LATITUDE: _____

LONGITUDE: _____

SAMPLING AGENCY: FLDEP SW ROC

WATERSHED / LAKESIDE FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category – from GIS):										LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer)											
Forest/Natural	Silviculture	Field/Pasture	Agricultural	Residential	Commercial	Industrial	Other (Specify)														
☐	☐	☐	☐	☐	☐	☐	☐														
Local Watershed Erosion (select one): ☐ None ☐ Slight ☐ Moderate ☐ Heavy								Artificially Impounded ☐ Yes ☐ No													
Local Watershed NPS Pollution: ☐ No evidence ☐ Slight ☐ Moderate ☐ Heavy																					
STORMWATER INPUTS		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										
8		20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
LAKESIDE ALTERATIONS		Very few man-made structures, roads, or other disturbance adjacent to lake (<10% lakeside affected)			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)										
3		20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
BUFFER ZONE		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										
4		20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	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 # _____ Exp. Date: _____ Alkalinity Sample Taken? ☒ Yes ☐ No Water Level ☐ Low ☒ Normal ☐ High										Water Odors: ☒ Normal ☐ Sewage ☐ Petroleum ☐ Other _____									
Meter Readings: Top: Depth (M) 0.3 Temp. (°C) 30.1 pH (SU) 7.17 D.O. (MG/L) 8.84 D.O. Sat. (%) 116.9 Cond. (UMHO/CM) 273.8 Salinity (PPT) 30.1 Mid-Depth: _____ Bottom: 2.3 28.6 6.58 4.96 64.6 274.0 0.13										Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other _____									
Sediment Type: (may check more than one) ☒ Sandy ☒ Organic fibrous (peaty, CPOM) ☐ Vegetated ☐ Sand/Silt ☐ Organic smooth (muck) ☐ Other (Specify): _____										Clarity: ☐ Clear ☐ Opaque ☐ Turbid ☒ Slightly Turbid Color: ☐ Clear ☒ Tannic ☐ Green									
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 ☐ ☐ ☒ ☐									
Weather Conditions: _____										Sediment Odors: ☒ Normal ☐ Anaerobic ☐ Other (Specify): _____									
SAMPLING TEAM: _____										SIGNATURE: _____									
DATE: _____										Additional Notes: _____									



STORET STATION NUMBER: SEE STICKER UPPER RIGHT	LAKE SIZE:	LAKE NAME	
ECO-REGION:	COUNTY: <i>Hillsborough</i>	SAMPLING LOCATION/DESC Site Name: <i>Branwood Dr Pond @ Center</i>	
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
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) ☐
	Optimal	Suboptimal	Marginal
Secchi	Secchi >3 m Or VOB	3 2.6 2.2 1.8 1.4	1.0 0.9 0.8 0.7 0.6
<i>11</i>	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6
Vegetation Quality	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
<i>7</i>	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6
Stormwater Inputs	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
<i>8</i>	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6
Bottom Substrate Quality	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
<i>11</i>	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6
Lakeside Adverse Human Alternations	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
<i>3</i>	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6
Upland Buffer Zone	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
<i>4</i>	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6
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		
<i>7</i>	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6

TOTAL SCORE	<i>51</i>	COMMENTS:
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ANALYSIS DATE: <i>05/20/2019</i>	ANALYST: <i>B Paswater, J Ashton, S Meyer</i>	SIGNATURE: <i>Sarah Meyer</i>
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Request Number: RQ-2019-05-06-16

LVIs

Florida Department of Environmental Protection Central Laboratory Submittal Form

Page 1 of 2

last revised Jan 25, 2018

Customer: SW-DIST

Project ID: SMP

Requester: Judy Ashton

Field Report Prepared By: S Meyer

Collected By: B Paswater, J Ashton, S Meyer

Sampling Agency: FDEP SW ROC

Location		Field ID/WIN G2SW0074		☐ Comp ☒ Grab		Collection (comp begin or grab) Date <u>05/20/2019</u> Time <u>1335</u>		☒ Eastern ☐ Central		Composite end Date _____ Time _____		Bottle Group(s) (See pg 2)	
Field		WIN		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen <u>8.84</u>		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L)		A	
Site Name: Branwood Dr Pond @ Center		Latitude		Temp (C) <u>30.1</u>		pH <u>7.17</u>		Sample Depth <u>0.3</u>		☐ ft ☒ m		Sp. Conductance (umho/cm) <u>273.8</u>	
Location		Field ID/WIN G2SW0069		☐ Comp ☒ Grab		Collection (comp begin or grab) Date <u>05/20/2019</u> Time <u>1050</u>		☒ Eastern ☐ Central		Composite end Date _____ Time _____		Bottle Group(s)	
Field		WIN		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen <u>7.59</u>		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L)		A	
Site Name: Lake Hooker @ Center		Latitude		Temp (C) <u>28.1</u>		pH <u>7.45</u>		Sample Depth <u>0.3</u>		☐ ft ☒ m		Sp. Conductance (umho/cm) <u>186.7</u>	
Location		Field ID		☐ Comp ☐ Grab		Collection (comp begin or grab) Date _____ Time _____		☐ Eastern ☐ Central		Composite end Date _____ Time _____		Bottle Group(s)	
WIN/STORET #		Latitude		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☐ mg/L ☐ % sat		Total Res. Chlorine (mg/L)			
Longitude		Salinity (ppt)		Temp (C)		pH		Sample Depth		☐ ft ☐ m		Sp. Conductance (umho/cm)	
Location		Field ID		☐ Comp ☐ Grab		Collection (comp begin or grab) Date _____ Time _____		☐ Eastern ☐ Central		Composite end Date _____ Time _____		Bottle Group(s)	
WIN/STORET #		Latitude		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☐ mg/L ☐ % sat		Total Res. Chlorine (mg/L)			
Longitude		Salinity (ppt)		Temp (C)		pH		Sample Depth		☐ ft ☐ m		Sp. Conductance (umho/cm)	
Location		Field ID		☐ Comp ☐ Grab		Collection (comp begin or grab) Date _____ Time _____		☐ Eastern ☐ Central		Composite end Date _____ Time _____		Bottle Group(s)	
WIN/STORET #		Latitude		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☐ mg/L ☐ % sat		Total Res. Chlorine (mg/L)			
Longitude		Salinity (ppt)		Temp (C)		pH		Sample Depth		☐ ft ☐ m		Sp. Conductance (umho/cm)	

Relinquished By: Sarah Meyer

Date/Time
05/20/2019

1700

Shipping Method

FedEx

Number of Coolers Shipped:

1

Received By:

Date/Time