



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2020

Meter Passed End
of Day CCV
Yes / No

WIN Station Name: Compass Lake

Date: 07/05/2022
(mm/dd/yyyy)

WIN/ Field ID: G3TLHR0054

WBID: 516

Latitude: 30.602006

(Decimal Degrees)

County: Bay

ORG ID: 21FLTLHR

Longitude: -85.385781

(Decimal Degrees)

Receiving Body of Water: _____

~~RQ-2020~~ 2022-06-13-49

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
<u>Jon Woods</u>	☒	☒	☒	☒	☒
<u>Paul Blair</u>	☒	☒	☒	☒	☒
	☐	☐	☐	☐	☐
	☐	☐	☐	☐	☐
	☐	☐	☐	☐	☐

Sampling Equipment	
☐ Sample Container	☐ Van Dorn
☐ Syringe	☐ Pole
☐ Dipper	☐ Other _____
Depth Measured with <u>sonar</u>	
Equipment ID <u>#1</u>	
Collection Method	
☐ Wading	☐ Canoe/Kayak
☐ From Shore	☐ Electric Motor
☐ Other _____	☒ Gasoline Motor

Water Level: Dry/ Pooled/ Low / <u>Normal</u> / High / Flooded		Meter ID# <u>2W 154 153484</u>	
Photos: Yes / <u>No</u>	Flow: No Flow / Flowing / <u>NA</u>	Tide: Rising/ Falling/ Slack/ <u>NA</u>	Tide Times: High _____ Low _____
Biological Samples Collected: None <u>HA</u> SCI RPS Algae ID LVS <u>LVI</u> Other: _____			
SBIO ID Numbers:	SBIO-ID: _____	HA-ID: _____	RPS-ID: _____
Macrophyte-ID: _____		LIMS#: _____	
Notes: _____ _____ _____			

Duplicate Sample

Time Zone: EST CEN Time: _____ Field ID: _____ (WIN ID_DUP)

WIN DMT Activity ID: _____

Blank

Time Zone: EST CEN Time: _____ Field ID: _____ (Blank Type_DDMMYYYY)
DI Source: _____ Location: _____
☐ Field Blank ☐ Equipment Blank ☐ Field Cleaned Equipment Blank
Equipment ID: _____

LIMS EVENT ID: _____ WIN Import ID: _____

Enter Field Parameters, Verify Station ID In LIMS DMT: _____ (Initials/Date) QC Station ID, Field Parameters In LIMS DMT: _____ (Initials/Date)

Scan/Save Field Sheets _____ (Initials/Date) Migrate Data to WIN: _____ (Initials/Date) Verify Data In WIN: _____ (Initials/Date)

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

84967

SAMPLE ID: G3TLHR0054 MACROPHYTE ID: _____ LATITUDE: _____
 COUNTY: Bay STORET #: _____ LONGITUDE: _____
 DATE: 7/5/22 TIME: 1050 SAMPLING AGENCY: ZIFLTLHR
 SITE NAME: Compass Lake WBID: 516
 FIELD ID/NAME: _____ LAKE SIZE: _____ RQ: 2022-06-13-49

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) ☐ <u>10</u> <u>90</u>					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 <u>8</u>		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 <u>7</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 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 <u>4</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 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 ☐ No pH<2 ☐ No Color Sample Taken? ☒ Yes ☐ No Lot # <u>2145160</u> Exp. Date: <u>6/2/23</u> 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: Top: <u>0.3</u> <u>30.6</u> <u>6.63</u> <u>7.95</u> <u>106.2</u> <u>23.2</u> <u>0.01</u> Mid-Depth: <u>8.4</u> _____ Bottom: <u>8.9</u> <u>20.3</u> <u>5.91</u> <u>3.81</u> <u>42.1</u> <u>23.2</u> <u>0.01</u> Meter ID: <u>153484</u>								Clarity: ☒ Clear ☐ Opaque ☐ Turbid ☐ Slightly Turbid Color: ☒ Clear ☐ Tannic ☐ Green SECCHI (M) <u>4.3</u> Total Station Depth (M) <u>6.9</u> VOB ☐							
Sediment Type: (may check more than one) ☒ Sandy ☐ Organic fibrous (peaty, CPOM) ☒ Vegetated ☐ Sand/Silt ☐ Organic smooth (muck) ☐ Other (Specify): _____								Sediment Odors: ☒ Normal ☐ Anaerobic ☐ Other (Specify): _____							
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 : <u>partly cloudy</u>								Additional Notes:							
SAMPLING TEAM: <u>Woods/Blais</u>								SIGNATURE: <u>[Signature]</u>							
DATE: <u>7/5/22</u>															

DEP Form FD 9000-6: Lake Habitat Assessment Field Sheet

STORET STATION NUMBER: <i>63TLHR2054</i>		DATE (M/D/Y) <i>7/5/22</i>		LAKE NAME <i>Compass Lake</i>		FIELD ID / NAME:	
ECO-REGION:		COUNTY: <i>Bay</i>		SAMPLING LOCATION/DESCRIPTION: <i>center</i>		LAKE SIZE:	
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 Secchi(m) Or VOB 20 19 18 17 16		3 2.6 2.2 1.8 1.4 15 14 13 12 11		1.0 0.9 0.8 0.7 0.6 10 9 8 7 6		0.5 0.4 0.3 0.2 0.1 5 4 3 2 1
Vegetation Quality	Diverse, expected native vegetation (emergent or submersed), less than 5% nuisance taxa <i>13</i> 20 19 18 17 16		Mostly expected native plants, but moderate growths (6%-20% of lake) of nuisance macrophytes, or more than 50% of lake covered with plants 15 14 13 12 11		Large masses (21%- 40%) of nuisance macrophytes (e.g., Hydrilla, hyacinth, cattail, etc.) or algal mats 10 9 8 7 6		Lake choked (>40%) with nuisance macrophytes (duckweed, hyacinth, etc.) or algal mats, or few plants present at all (e.g., plants removed) 5 4 3 2 1
Stormwater Inputs	Stormwater enters system via sheet flow over non-cultivated and/or natural vegetation <i>8</i> 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
Bottom Substrate Quality	Diverse mixture of sand, detritus, with small amounts of CPOM/mud/muck. SAV may be present <i>16</i> 20 19 18 17 16		Mixture of sand or clay and detritus with higher % CPOM/mud/muck content. SAV may be present 15 14 13 12 11		Moderate layer of CPOM/ mud/muck, or hardpacked sand only, or moderate algal growth (mats or Chara) on bottom 10 9 8 7 6		Thick deposits of CPOM, or fine detritus and anaerobic muck/mud/silt, or algal growth or nuisance plants (Hydrilla) cover bottom 5 4 3 2 1
Lakeside Adverse Human Alterations	Very few man-made structures, roads, or other disturbance adjacent to lake (<10%) <i>7</i> 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
Upland Buffer Zone	Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18 m buffer <i>4</i> 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
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>6</i> 20 19 18 17 16		15 14 13 12 11		10 9 8 7 6		5 4 3 2 1
TOTAL SCORE	<i>72</i>		COMMENTS:				
ANALYSIS DATE: <i>7/5/22</i>		ANALYST: <i>Jon Woods</i>			SIGNATURE: <i>[Signature]</i>		

12393

LIMS 2338844

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: <i>Compass Lake</i>					County: <i>Bay</i>					Date: <i>7/5/22</i>				
Analyst: <i>Jon Woods</i>					Signature: <i>Jon Woods</i>					STORET: <i>03TLHRO054</i>				
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				
SPECIES	3	6	9	12	Collected? (✓)	SPECIES	3	6	9	12	Collected? (✓)			
<i>Acer rubrum</i>	✓	✓	✓	✓		<i>Habenaria repens</i>								
<i>Alternanthera philoxeroides</i>						<i>Hydrilla verticillata</i>								
<i>Andropogon</i> sp.						<i>Hydrocotyle</i> sp.		✓		✓				
<i>Azolla filiculoides</i> (<i>A. caroliniana</i>)						<i>Hygrophila polysperma</i>								
<i>Baccharis</i> sp.						* <i>Hypericum fasciculatum</i>								
<i>Bacopa caroliniana</i>						* <i>Hypericum hypericoides</i>								
<i>Bacopa monnieri</i>						* <i>Hypericum myrtifolium</i>	✓	✓						
<i>Bidens laevis</i>						<i>Ilex cassine</i>								
<i>Bidens mitis</i>						<i>Ipomoea aquatica</i>								
<i>Blechnum serrulatum</i>						<i>Ipomoea sagittata</i>								
<i>Boehmeria cylindrica</i>						<i>Itea virginica</i>								
<i>Brasenia schreberi</i>	✓	✓				<i>Juncus effusus</i>								
<i>Cabomba caroliniana</i>						* <i>Juncus marginatus</i>								
<i>Casuarina equisetifolia</i>						* <i>Juncus megacephalus</i>								
<i>Centella asiatica</i>						<i>Juncus repens</i>								
<i>Cephalanthus occidentalis</i>						* <i>Juncus scirpoides</i>								
<i>Ceratophyllum demersum</i>						<i>Lachnanthes caroliniana</i>								
<i>Chara</i> sp.						<i>Leersia hexandra</i>								
<i>Cladium jamaicense</i>						<i>Landoltia punctata</i> (<i>Spirodela punctata</i>)								
<i>Cliftonia monophylla</i>						<i>Lemna</i> sp.								
<i>Colocasia esculenta</i>				✓		<i>Leucothoe racemosa</i> (<i>Eubotrys racemosa</i>)								
* <i>Commelina</i>						<i>Limnobia spongia</i>								
<i>Crinum americanum</i>						<i>Limnophila sessiliflora</i>								
* <i>Cyperus alternifolius</i> (<i>C. involucratus</i>)						<i>Liquidambar styraciflua</i>								
<i>Cyperus articulatus</i>						* <i>Ludwigia arcuata</i>								
<i>Cyperus haspan</i>						* <i>Ludwigia leptocarpa</i>								
* <i>Cyperus lecontei</i>						* <i>Ludwigia linearis</i>								
* <i>Cyperus polystachyos</i>						* <i>Ludwigia octovalvis</i>								
* <i>Cyperus odoratus</i>						* <i>Ludwigia peruviana</i>								
* <i>Cyperus surinamensis</i>						* <i>Ludwigia repens</i>								
<i>Cyrtilla racemiflora</i>			✓	✓		* <i>Ludwigia</i>								
<i>Decodon verticillatus</i>						<i>Luziola fluitans</i> (<i>Hydrochloa carolinensis</i>)								
<i>Diodia virginiana</i>						<i>Lyonia lucida</i>								
* <i>Echinochloa crus-galli</i>						<i>Magnolia virginiana</i>	✓	✓	✓	✓				
* <i>Echinochloa muricatum</i>						<i>Mayaca fluviatilis</i>								
<i>Echinochloa walteri</i>						<i>Melaleuca quinquenervia</i>								
<i>Eclipta prostrata</i> (<i>E. alba</i>)						<i>Micranthemum glomeratum</i>								
<i>Egeria densa</i>						<i>Micranthemum umbrosum</i>								
<i>Eichhornia crassipes</i>						<i>Mikania scandens</i>								
* <i>Eleocharis baldwinii</i>				✓		<i>Mimosa pigra</i>					✓			
* <i>Eleocharis</i>						<i>Myrica cerifera</i>	✓	✓	✓	✓				
<i>Eleocharis cellulosa</i>														
<i>Eleocharis equisetoides</i>														
<i>Eleocharis interstincta</i>														
* <i>Eriocaulon compressum</i>	✓	✓												
* <i>Eriocaulon decangulare</i>														
<i>Eupatorium capillifolium</i>														
* <i>Fuirena</i>														
<i>Fuirena scirpoidea</i>														
<i>Gordonia lasianthus</i>														