



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2020

Meter Passed End

of Day CCV

Yes No

WIN Station Name: Hourglass Lake @ Center

Date: 6/9/2021

WIN/Field ID: G4CE0178

WBID: 3168X2

ENR: -

Latitude: 28.5225

County: ORANGE

Org ID: 21FLCEN

Longitude: -81.36

Receiving Body of Water: Kissimmee River

RQ- 2021-05-31-32

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
☒	Leif Boman		x		x	x
☒	Elizabeth Bates	x		x		
☐						
☐						

Sampling Equipment	
☒ Sample Container	☐ Carboy
☐ Dipper	☐ Van Dorn
☒ Syringe	☐ Pole
Depth measured with: Secchi	
Secchi Equipment ID: Light	
Collection Method	
☐ Wading	☐ Canoe/Kayak
☐ From Shore	☐ Electric Motor
☐ Other	☒ Gasoline Motor

Water Level: ☒ Normal ☐ Low ☐ High ☐ Dry ☐ Pooled ☐ Flooded						Meter ID# SHRIMP TRAP					
Photos: YES		Flow: NA		Tide:		Tide Times: High: Low:					
Biological Samples Collected: ☐ None ☐ HA ☐ SCI ☐ RPS ☐ Algae ID ☐ LVS ☒ LVI Other:											
SBIO ID Numbers: SBIO 82510 MACROPHYTE 11828						LIMS 2254404					
Notes:											

Duplicate Sample

Time Zone: EST	Time:	Field ID: N/A	(WIN ID_DUP)
WIN DMT Activity ID:			

Blank

Time Zone:	Time:	Field ID:	(Blank Type_DDDMMYYY)
DI Source:	Location:		
DI Type:	Equipment ID:		
DI Container (Name/ID):		DI Container Type:	

LIMS EVENT ID: CEN-DIST-2021-06-10-02

WIN Import ID: 27968

Enter Field Parameters, Verify Station ID In LIMS DMT: KWM 6/25/21

QC Station ID, Field Parameters In LIMS DMT: EB 7/14/21

(Initials/Date)

(Initials/Date)

Scan/Save Field Sheets KWM 8/6/21

(Initials/Date)

Migrate Data to WIN: KWM 8/6/21

(Initials/Date)

Verify Data In WIN:

(Initials/Date)



RQ-2021-05-31-32

Customer: WQAP

Project ID: SMP

Collected By: Leif Boman, Elizabeth Bates

Field Report Prepared By: Leif Boman

Sampling Agency: FDEP

Place Label Here

WIN ID/Field ID:



G4CE0178

Location: Hourglass Lake @ Center

Comments:

Matrix: Fresh

(Check one)

☒ GRAB☐ COMPOSITE

Date	Time	DO (mg/L)	DO (%SAT)	Temp. (C°)	pH	Sample Depth (m)	Secchi Disk (m)	Total Depth (m)	Sp COND (µmhos/cm)	Salinity (PPT)
6/9/2021	1425 EST	10.97	150	31.8	8.3	0.3	0.8 ☐ VOB (S)	3.1	220.4	0.1
	1430	5.82	76.2	29.4	7.27	2.0	Central Lab please use top row for login purposes		220.7	0.1
	1435 EST	0.44	5.7	28.8	6.65	2.6			220.7	0.1

Parameter Suite	Parameter Methods	Preservation	pH Check	# Bottles sent to Lab	Bottle Group
Preserved Nutrients (P-500ML)	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP Lot # SA1105060 Exp: 04/30/22	☒ Ice ☒ H2SO4*	☒ <2	1	A
Metals (P-500ML)	☐ W-ICPMS ☐ W-ICP ☐ W-HARD Lot # Exp:	☐ Ice ☐ HNO3*	☐ <2		
Filtered Nutrients (P125ML)	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter Filter Lot # 17135566 Syringe Lot # 1091364	☒ Ice		1	A
Chlorophyll (BP-1L)	☒ CHLSUITE-W	☒ Ice		1	A
Physical/Aggregate (Fresh) (P-1L)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CL-IC / W-COLOR / W-SO4-IC / W-TDS	☒ Ice		1	A
Physical/Aggregate (Marine) (P-1L)	☐ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates (PJ-2L)	☐ MI-FW-QLDC	☐ Formalin			
Periphyton (PT-50ML)	☐ ALGAE-ID	☐ Ice			
Microbiology (Contract Lab Bottle)	☐ E Coli ☐ F Coli ☐ Enterococci ☐ Contract Lab	☐ Ice			
Molecular (QPCR-P-500ML)	☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-DG3 ☐ PCR-GULL2 ☐ PCR-GFD	☐ Ice			
Tracers (BG-500ML)	☐ W-E8321-DI ☐ W-E8321-MS	☐ Ice			
Pesticides (BG-500ML) (BG-1L)	☐ W-E8321-DI ☐ WE8321-MS ☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-PCL-TQ-R ☐ W-CARB-AA (5 ml of MCAA** Buffer Solution) ☐ W-DIELDRIN	☐ Ice			
Phytoplankton/Periphyton	DTM-QL-C PEN-QL-C DTY-QN-C PKD-QN-C DTM-QN-C PRN-QN-C PKD-QN-BV	☐ Ice			

Name:
Leif Boman
Elizabeth Bates

Signature:

Date:

06/09/2021

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: <u>Honglask</u>		County: <u>Orange</u>		Date: <u>6/9/21</u>					
Analyst: <u>Erin Bentes, Jeff Bentes</u>		Signature: <u>[Signature]</u>		STORET: <u>G4CED178</u>					
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 <u>3, 6, 9, 12</u>					
SPECIES				Collected? (✓)	SPECIES				Collected? (✓)
Acer rubrum					Fuirena scirpoides				
Alternanthera philoxeroides					Gordonia lasianthus				
Amaranthus australis					Habenaria repens				
Andropogon sp.					Hibiscus coccineus				
Azolla filiculoides (A. caroliniana)					Hibiscus grandiflora				
Baccharis sp.					Hydrilla verticillata				
Bacopa caroliniana					Hydrocotyle sp.				
Bacopa monnieri					Hygrophila polysperma				
Bidens alba					Hymenocallis sp.				
Bidens laevis					*Hypericum fasciculatum				
Bidens mitis					*Hypericum hypericoides				
Blechnum serrulatum					*Hypericum myrtifolium				
Boehmeria cylindrica					Ilex cassine				
Brasenia schreberi					Ipomoea aquatica				
Cabomba caroliniana					Ipomoea sagittata				
Canna					Itea virginica				
Centella asiatica					Juncus effusus				
Cephalanthus occidentalis					*Juncus marginatus				
Ceratophyllum demersum					*Juncus megacephalus				
Chara sp.					Juncus repens				
Cladium jamaicense					*Juncus scirpoides				
Colocasia esculenta					Lachnanthes caroliniana				
*Commelina					Leersia hexandra				
Crinum americanum					Landoltia punctata (Spirodela punctata)				
*Cyperus alternifolius (C. involucratus)					Lemna sp.				
Cyperus articulatus					Leucothoe racemosa (Eubotrys racemosa)				
Cyperus haspan					Limnobium spongia				
*Cyperus lecontei					Limnophila sessiliflora				
*Cyperus polystachyos					Liquidambar styraciflua				
*Cyperus odoratus					*Ludwigia arcuata				
*Cyperus surinamensis					*Ludwigia grandiflora				
Cyrilla racemiflora					*Ludwigia hexapetala				
Decodon verticillatus					*Ludwigia leptocarpa				
Diodia virginiana					Ludwigia (native)				
*Echinochloa crus-galli					*Ludwigia octovalvis				
*Echinochloa muricatum					*Ludwigia peruviana				
Echinochloa walteri					*Ludwigia repens				
Eclipta prostrata (E. alba)					Ludwigia suffruticosa				
Eichhornia crassipes					Luziola fluitans (Hydrochloa carolinensis)				
*Eleocharis <u>calycina</u> (CR)					Magnolia virginiana				
Eleocharis cellulosa					Mayaca fluviatilis				
*Eleocharis elongata					Melaleuca quinquenervia				
Eleocharis equisetoides					Micranthemum glomeratum				
Eleocharis interstincta					Micranthemum umbrosum				
Eleocharis submersed viviparous					Mikania scandens				
*Eriocaulon compressum					Mimosa pigra				
*Eriocaulon decangulare					Myrica cerifera				
Eupatorium capillifolium					<u>Cyperus papirus?</u>				
Fraxinus									

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Site: <u>Lake Hurglass</u>				Date: <u>6/9/12</u>							
SPECIES	3	6	9	12	Collected? (✓)	SPECIES	3	6	9	12	Collected? (✓)
Myriophyllum aquaticum						Salix caroliniana					
*Myriophyllum heterophyllum						Salvinia minima					
*Myriophyllum laxum						Sambucus canadensis					
*Myriophyllum pinnatum						Sapium sebiferum					
Myriophyllum spicatum						Saururus cernuus					
*Najas filifolia						Schinus terebinthifolius					
*Najas guadalupensis						*Schoenoplectus californicus					
*Najas minor						*Schoenoplectus pungens					
Nelumbo lutea						*Schoenoplectus tabernaemontani (Scirpus validus)					
Nitella spp.						Scirpus cubensis (Oxycaryon cubense)					
Nuphar sp.						Scirpus cyperinus					
Nymphaea mexicana						*Sesbania					
Nymphaea odorata						Solidago sp.					
Nymphoides aquatica						Sparganium americanum					
Nyssa sylvatica var. biflora						Spartina bakeri					
Orontium aquaticum						Spirodela polyrhiza					
Osmunda cinnamomea						Taxodium sp.					
Osmunda regalis						Thalia geniculata					
Panicum hemitomon						Thelypteris interrupta					
Panicum repens						Thelypteris palustris					
Paspalidium geminatum						Triadenum virginicum					
*Paspalum repens						Typha sp.					
Paspalum urvillei						Urochloa mutica (Brachiaria mutica)					
Peltandra sp.						*Utricularia foliosa					
Persea sp.						*Utricularia gibba (U. biflora)					
Pennisetum purpureum						*Utricularia inflata					
Phragmites australis						*Utricularia purpurea					
Pinus elliotii						*Utricularia radiata					
Pistia stratioides						*Utricularia resupinata					
Pluchea sp.						Vallisneria americana					
*Polygonum glabrum (densiflorum)						Vigna luteola					
Polygonum hirsutum						Vitis sp.					
*Polygonum hydropiperoides						*Websteria confervoides					
*Polygonum punctatum						Wedelia trilobata (Sphagneticola trilobata)					
*Polygonum <u>glabrum</u>						Wolffiella spp.					
Pontederia cordata						Woodwardia virginica					
*Potamogeton diversifolius						Xyris sp.					
*Potamogeton illinoensis						Zizania aquatica					
*Potamogeton pusillus						Zizaniopsis milacea					
*Potamogeton pectinatus (Stuckenia pectinatus)											
Proserpinaca pectinata											
*Rhexia											
*Rhynchospora comiculata											
*Rhynchospora inundata											
Rhynchospora nitens											
Ricciocarpus natans											
Sabal palmetto											
Sacciolepis striata											
*Sagittaria filiformis											
*Sagittaria graminea											
*Sagittaria isoetiformis											
Sagittaria lancifolia											
Sagittaria latifolia											

Novoglass

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: _____ MACROPHYTE ID: _____ LATITUDE: 28.5225
 COUNTY: Orange STORET #: G4CED178 LONGITUDE: -81.36
 DATE: 6/9/2021 TIME: 14:25 SAMPLING AGENCY: 21FCEN
 SITE NAME: G4CED178 WBID: 3168X2
 FIELD ID/NAME: Lake Novoglass Lake @ Center LAKE SIZE: 13 Acre RQ: 2021-05-31-32

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>100</u>				LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer) LDI:	
Local Watershed Erosion (select one) : ☒ None ☐ Slight ☐ Moderate ☐ Heavy Local Watershed NPS Pollution : ☐ No evidence ☒ Slight ☐ Moderate ☐ Heavy				Artificially Impounded ☐ Yes ☒ No	
STORMWATER INPUTS KWM <u>12</u> ⁴		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	
LAKESIDE ALTERATIONS <u>3</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	
BUFFER ZONE KWM <u>8</u> ⁷		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	
				Moderate direct inputs of stormwater (ditches, pipes, cultivated vegetation 11%-50%) but few BMPs in place 10 9 8 7 6	
				Many structures, roads or other human disturbance visible (50%-70% lakeside affected) 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	
				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>SA0105060</u> Exp. Date: <u>4/30/22</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: Depth (M) Temp. (°C) pH (SU) D.O. (MG/L) D.O. Sat. (%) Cond. (UMHO/CM) Salinity (PPT) Top: <u>0.3</u> <u>31.8</u> <u>8.30</u> <u>10.97</u> <u>150.0</u> <u>220.4</u> <u>0.10</u> Mid-Depth: <u>2.0</u> <u>29.4</u> <u>7.27</u> <u>5.82</u> <u>76.2</u> <u>220.7</u> <u>0.10</u> Bottom: <u>2.6</u> <u>28.8</u> <u>6.65</u> <u>0.44</u> <u>5.7</u> <u>220.7</u> <u>0.10</u>				Clarity: ☐ Clear ☐ Opaque ☐ Turbid ☒ Slightly Turbid Color: ☐ Clear ☐ Tannic ☒ Green			
Meter ID: <u>SW, mp trap</u>				SECCHI (M) <u>0.8</u> Total Station Depth (M) <u>3.1</u> VOB ☐			
Sediment Type: (may check more than one) ☐ Sandy ☐ Organic fibrous (peaty, CPOM) ☐ Vegetated ☒ Yes ☐ No ☐ Sand/Silt ☐ Organic smooth (muck) ☐ Other (Specify): _____				Sediment Odors: ☐ Normal ☐ Anaerobic ☒ Other (Specify): <u>N/A</u>			
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:			

Weather Conditions: Hot sunny

SAMPLING TEAM: Arabella Bates, Lex Boman SIGNATURE: [Signature] DATE: 6/9/21

LVI Map for Hourglass Lake, WBID 3168X2

