

**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION**

STRATEGIC MONITORING PLAN FIELD SHEET

January 2022

Meter Passed End

of Day CCV

☒ Yes / No

WIN Station Name: Lake Hanna @ Center

Date: 5/17/2022

WIN/Field ID: G2SW0078

WBID: 1451T

ENR:

Latitude: 28.1385

County: HILLSBOROUGH

Org ID: 21FLTPA

Longitude: -82.4466

Receiving Body of Water: -

RQ- 2022-05-16-25

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
☒	Ben Paswater	x		x	x	x
☒	Megan Maloney		x			
☐						
☐						

Sampling Equipment	
☒ Sample Container	☐ Carboy
☐ Dipper	☐ Van Dorn
☐ Syringe	☐ Pole
Depth measured with: Secchi	
Secchi Equipment ID: Secchi #3	
Collection Method	
☐ Wading	☒ Canoe/Kayak
☐ From Shore	☐ Electric Motor
☐ Other	☐ Gasoline Motor

Water Level: ☒ Normal ☐ Low ☐ High ☐ Dry ☐ Pooled ☐ Flooded						Meter ID# SWD							
Photos: YES		Flow: NA		Tide:		Tide Times: High: Low:							
Biological Samples Collected: ☐ None ☐ HA ☐ SCI ☐ RPS ☐ Algae ID ☐ LVS ☒ LVI Other:													
SBIO ID Numbers: Visit ID: 84221 LVI: 12146													
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_DDMMYYYY)
DI Source:	Location:		
DI Type:	Equipment ID:		
DI Container (Name/ID):		DI Container Type:	

LIMS EVENT ID: 2022-05-18-01	WIN Import ID: 34612
Enter Field Parameters, Verify Station ID In LIMS DMT: MM 5/30/2022	QC Station ID, Field Parameters In LIMS DMT: KG 5/31/2022
(Initials/Date)	(Initials/Date)
Scan/Save Field Sheets NA 08/11/2022	Migrate Data to WIN: NA 08/11/2022
(Initials/Date)	(Initials/Date)
Verify Data In WIN: NA 08/11/2022	
(Initials/Date)	



RQ-2022-05-16-25
Customer: SW-DIST
Project ID: STRATEGIC MONITORING PLAN

Collected By: Ben Paswater, Megan Maloney
Field Report Prepared By: Ben Paswater
Sampling Agency: FDEP

Place Label Here WIN ID/Field ID: G2SW0078 Location: Lake Hanna @ 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 (PPTH)
5/17/2022	1245 EST	8.38	108.4	28.6	7.8	0.3	0.9 ☐ VOB (S)	3.6	218.7	0.1
	1245	6.85	87.1	27.7	7.66	2.0	Central Lab please use top row for login purposes		218.4	0.1
	1245 EST	2.17	27.1	26.7	7.49	3.1			217.9	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				☒ Ice ☒ H2SO4*		☐ <2	1	A
		Lot #	SA1308030		Exp:	12/01/2022				
Metals (P-500ML)		☒ W-ICPMS ☒ W-ICP ☒ W-HARD				☒ Ice ☐ HNO3*		☒ <2	1	A
		Lot #	NA1105100		Exp:	06/07/2022				
Filtered Nutrients (P125ML)		☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter				☐ Ice			1	A
		Filter Lot #	17232873			Syringe Lot #	1145497			
BOD (BP-1L)		☐ OV-BODUNIN				☐ Ice				
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		MCAA Exp. 2/4/2023		
Pesticides (BG-500ML) (BG-1L)		☒ W-E8321-DI	☒ WE8321-MS	☒ W-PSNP-TQ	☒ W-CT-CL-R	☒ Ice		MCAA Lot#	10	A
		☒ W-PCL-TQ-R	☒ W-CARB-AA (5 ml of MCAA** Buffer Solution)		128343					
		☒ W-PCB-TQ-R								
Phytoplankton/Periphyton				DTY-QN-C	PKD-QN-C	☐ Ice				
Name: Ben Paswater Megan Maloney				Signature:					Date: 05/17/2022	

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution

Hanna Lake LVI

Write a description for your map.

Legend

- 1451T
- Bay Resources
- Dan Balk Jewelry
- Feature 1
- Measure

Google Earth

Image Landsat / Copernicus

900 ft





Site Name: Lake Hanna @ Center

COUNTY: Hills.

LAKE SIZE: Big

WBID: 1451T

MACROPHYTE ID:

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)	LDI:											
20	5			75				Land Use Source & Year:											
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)					
15		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					
8		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) 28.6 pH (SU) 7.8 D.O. % 108.4 D.O. Sat (mg/l) 8.38 Cond. (UMHO/CM) 218.7 Salinity (PPT) 1.0 Mid-Depth: Depth (M) 2.0 Temp. (°C) 27.7 pH (SU) 7.46 D.O. % 87.1 D.O. Sat (mg/l) 6.85 Cond. (UMHO/CM) 218.4 Salinity (PPT) 1.0 Bottom: Depth (M) 3.1 Temp. (°C) 26.7 pH (SU) 7.49 D.O. % 27.1 D.O. Sat (mg/l) 2.17 Cond. (UMHO/CM) 217.9 Salinity (PPT) 1.0 Meter ID: SWD										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 ☒ Turbid ☐ Opaque ☐ Slightly Turbid Color: ☒ Tannic ☐ Clear ☐ Green SECCHI (M) 0.9 Total Station Depth (M) 3.6 VOB ☐									
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										Sediment Odors: ☒ Normal ☐ Other (Specify): _____ ☐ Anaerobic									
Abundance: Absent Rare Common Abundant Periphyton ☐ ☐ ☐ ☒ Nuisance Plants ☐ ☐ ☐ ☒ Submersed Plants ☐ ☐ ☐ ☒ Exotic Apple Snails ☐ ☐ ☐ ☒										Additional Notes: recent sprayed Hydrilla									
Weather Conditions: Sunny ~ 90																			
SAMPLING TEAM: Ben Paswater, Megan Maloney										SIGNATURE: Ben Paswater					DATE: 5/17/22				

Site Name: Lake Hanna @ Center

Waterbody:

County: Hills.

Signature:

Date: 5/17/2022

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)	1	4	7	10	Collected? (✓)	SPECIES (G-L)	1	4	7	10	Collected? (✓)
Acer rubrum	✓	✓	✓	✓		Gordonia lasianthus		✓			
Alternanthera philoxeroides	✓	✓	✓	✓		Habenaria repens					
Andropogon sp.	✓	✓	✓	✓		Hymenachne amplexicaulis	✓	✓	✓	✓	
Azolla filiculoides (A. caroliniana)	✓	✓	✓	✓		Hydrilla verticillata	✓	✓	✓	✓	
Baccharis sp.						Hydrocotyle sp.	✓	✓	✓	✓	
Bacopa caroliniana						Hygrophila polysperma					
Bacopa monnieri						*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			✓			*Juncus marginatus					
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						*Ludwigia leptocarpa					
*Cyperus odoratus	✓	✓				*Ludwigia linearis					
*Cyperus surinamensis						*Ludwigia octovalvis					
Cyrtilla racemiflora						*Ludwigia peruviana	✓				
Decodon verticillatus						*Ludwigia repens					
Diodia virginiana						*Ludwigia					
*Echinochloa crus-galli						Luziola fluitans (Hydrochloa carolinensis)				✓	
*Echinochloa muricatum						Lyonia lucida					
Echinochloa walteri											
Eclipta prostrata (E. alba)											
Egeria densa	✓	✓	✓	✓							
Eichhornia crassipes	✓	✓	✓	✓							
*Eleocharis baldwinii	✓	✓	✓	✓							
*Eleocharis											
Eleocharis cellulosa											
Eleocharis equisetoides											
Eleocharis interstincta											
*Eriocaulon compressum											
*Eriocaulon decangulare	✓	✓	✓	✓							
Eupatorium capillifolium	✓										
*Fuirena											
Fuirena scirpoidea											

1: nuphar & S. cubensis
4: nuphar & S. cubensis

7: nuphar
10: v. murica & nuphar



Site Name: Lake Hanna @ Center

Date:											
Name: Lake Hanna @ Center											
SPECIES (M-P)	1	4	7	10	Collected? (✓)	SPECIES (R-Z)	1	4	7	10	Collected? (✓)
Magnolia virginiana						*Rhexia					
Mayaca fluviatilis						*Rhynchospora corniculata					
Melaleuca quinquenervia	✓				✓	*Rhynchospora inundata					
Micranthemum glomeratum						Rhynchospora tracyi					
Micranthemum umbrosum						Ricciocarpus natans					
Mikania scandens						Sabal palmetto	✓	✓			
Mimosa pigra						Sacciolepis striata					
Myrica cerifera	✓				✓	*Sagittaria filiformis					
Myriophyllum aquaticum						*Sagittaria graminea					
*Myriophyllum heterophyllum						*Sagittaria isoetiformis					
*Myriophyllum laxum						Sagittaria lancifolia	✓				
*Myriophyllum pinnatum						Sagittaria latifolia					
Myriophyllum spicatum						Salix caroliniana					
*Najas filifolia						Salvinia minima	✓	✓	✓	✓	
*Najas guadalupensis						Sambucus canadensis					
*Najas minor						Sapium sebiferum				✓	✓
Nelumbo lutea						Saururus cernuus					
Nitella spp.						Schinus terebinthifolius					
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					✓	Sparganium americanum					
Panicum repens						Spartina bakeri					
Paspalidium geminatum						Sphagnetocola trilobata (Wedelia)				✓	
*Paspalum repens						Spirodela polyrhiza					
Paspalum urvillei						Taxodium sp.	✓	✓	✓	✓	
Peltandra sp.						Thalia geniculata					
Persea sp.						Thelypteris palustris					
Pennisetum purpureum						Triadenum virginicum					
Phragmites australis						Typha sp.					
Pinus elliotii						Urochloa mutica (Brachiaria mutica)	✓	✓	✓	✓	
Pistia stratioides						*Utricularia gibba (U. biflora)					
Pluchea sp.	✓				✓	*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					
Proserpinaca pectinata						Xyris sp.					
						Z					