



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2020

Meter Passed End

of Day CCV

Yes / No

06/09/2020
(mm/dd/yyyy)

WIN Station Name: See label on page 2

Date:

WIN/ Field ID: See label pg 2

WBID: 15219

Latitude:

(Decimal Degrees)

County: ADK

ORG ID: 21FLTPA

Longitude:

(Decimal Degrees)

Receiving Body of Water:

RQ-2020-05-11-17

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Judy Ashton					
Ben Ashton					

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

Water Level: Dry/ Pooled/ Low / Normal / High / Flooded		Meter ID# SWD	
Photos: Yes / No	Flow: No Flow / Flowing / NA	Tide: Rising/ Falling/ Slack NA	Tide Times: High Low
Biological Samples Collected: None HA SCI RPS Algae ID LVS LVI Other:			
SBIO ID Numbers:	SBIO-ID: 81062	HA-ID: 16622	RPS-ID: Macrophyte-ID: 11672
LIMS#: 2175558			
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_DDDMMYYY)
DI Source:	Location:		
☐ Field Blank	☐ Equipment Blank	☐ Field Cleaned Equipment Blank	Equipment ID:

Signature: Judy Ashton	Date: 6-9-20
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LIMS EVENT ID: 2020-06-10-02 WIN Import ID: 21208

Enter Field Parameters, Verify Station ID In LIMS DMT: SM 06/15/2020 QC Station ID, Field Parameters In LIMS DMT: SM 07/27/2020

Scan/Save Field Sheets Migrate Data to WIN: SM 07/27/2020 Verify Data In WIN: SM 09/09/2020



RQ-2020- See page 1

Collected By: SWROC

Customer: SWDIST

Field Report Prepared By: Lucy Ashton

ProjectID: SMP

Sampling Agency: FDEP

Field ID/WIN G3SW0079  Site Name: Lake Blue @ Center							Comments:			
Matrix: <u>Fresh</u> Marine							(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)
6/9/20	1010	11.60	151.3	29.2	8.62	0.3	0.3	2.5	128.5	0.06
EST / CST										
Cental Lab please use top row for login purposes										
EST / CST		1.45	18.4	27.5	6.49	2.0			130.4	0.06
EST / CST										
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 #		Exp:						
		549354050		12-20-20						
Metals (P-500ML)		☒ W-CPMS ☒ W-ICP ☒ W-HARO				☒ Ice ☐ HNO3*		☒ 2	1	
		Lot #		Exp:						
		NA9254150		9-11-20						
Filtered Nutrients (P125ML)		☐ W-PH4-F ☒ Field Filtered 0.45 µm Filter				☐ Ice			1	
		Filter Lot #		Exp:						
		Syringe		Exp:						
		Lot #		Exp:						
Chlorophyll (BP-1L)		☒ CHL-SUITE-W				☒ Ice			1	
Physical/Aggregate (Fresh) (P-1L)		☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CHC / W-COLOR / W-SO4-IC / W-TDS				☒ Ice			1	
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-SQ-R ☐ W-CARB-AA (5 ml of MCAA** Buffer Solution)				☐ Ice				
						☐ Ice				
Relinquished By:		Date/Time		Shipping Method		Number of Coolers Shipped:		Received By:		Date/Time:
										6/9/2020

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution

Email Submittal form to : lab.receiving@floridadep.gov.

Site Name: **Lake Blue @ Center**

Waterbody:	County: <i>Pocon</i>
Signature: <i>[Signature]</i>	Date: <i>6-9-20</i>
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)	6	3	12	9	Collected? (✓)	SPECIES (G-L)	6	3	12	9	Collected? (✓)
Acer rubrum	X	X	X			Gordonia lasianthus			X		
Alternanthera philoxeroides						Habenaria repens					
Andropogon sp.						Hymenachne amplexicaulis					
Azolla filiculoides (A. caroliniana)						Hydrilla verticillata					
Baccharis sp.						Hydrocotyle sp.	X	X	X		
Bacopa caroliniana						Hygrophila polysperma					
Bacopa monnieri						*Hypericum fasciculatum					
Bidens laevis						*Hypericum hypericoides					
Bidens mitis						*Hypericum myrtifolium					
Blechnum serrulatum	X	X		X		Ilex cassine					
Boehmeria cylindrica			X			Ipomoea aquatica					
Brasenia schreberi						Ipomoea sagittata					
Cabomba caroliniana						Itea virginica					
Casuarina equisetifolia						Juncus effusus					
Centella asiatica						*Juncus marginatus					
Cephalanthus occidentalis			X	X		*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			X			*Ludwigia linearis					
*Cyperus surinamensis						*Ludwigia octovalvis					
Cyrilla racemiflora						*Ludwigia peruviana	X	X	X	X	
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		X									
*Fuirena											
Fuirena scirpoidea											

Site Name: **Lake Blue @ Center**

): _____

LATITUDE: _____

LONGITUDE: _____

SAMPLING AGENCY: **PAEP**WBID: **15219**LAKE SIZE: **9** RQ: **2010-05-11-17**

FIELD ID/NAME: _____

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) ☐

Local Watershed Erosion (select one) : ☐ None ☐ Slight ☐ Moderate ☐ Heavy**Artificially Impounded**Local Watershed NPS Pollution : ☐ No evidence ☐ Slight ☐ Moderate ☐ Heavy☐ Yes ☐ No**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

20

19

18

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16

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6

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4

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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)

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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

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1

WATER / SUBSTRATE / BIOLOGICAL: SAMPLES AND OBSERVATIONS**Water:**Nutrient Sample Taken? ☒ Yes ☐ No Preserved? ☒ Yes ☐ pH<2 ☐ NoColor Sample Taken? ☒ Yes ☐ No Lot # _____ Exp. Date: _____Alkalinity Sample Taken? ☒ Yes ☐ NoWater 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)

Clarity:☐ Clear**Color:**☐ Clear☒ Opaque ☐ Turbid☐ Tannic ☒ Green☐ Slightly Turbid

Mid-Depth:

Bottom:

SECCHI (M)

Total Station Depth (M)

VOB

Meter ID: _____

Sediment Type: (may check more than one)☐ Sandy ☒ Organic fibrous (peaty, CPOM)☐ Sand/Silt ☒ Organic smooth (muck)Sample Taken? ☐ Yes ☒ No☒ Vegetated☐ Other (Specify): _____**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:****Weather Conditions :**SAMPLING TEAM: **ASHTON + PASWATER**SIGNATURE: **[Signature]**DATE: **6-9-20**



Lake Habitat Assessment Field Sheet

Site Name: Lake Blue @ Center

LAKE NAME		FIELD ID / NAME:	
ECO-REGION:	COUNTY: <u>POLK</u>	SAMPLING LOCATION/DESCRIPTION:	
PARAMETER	LAKE SIZE: <u>LS</u>		
HYDROLOGY	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 ☐
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
	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 <u>13</u>	Mostly expected native plants, but moderate growths (6%-20% of lake) of nuisance macrophytes, or more than 50% of lake covered with plants <u>13</u>	Large masses (21%-40%) of nuisance macrophytes (e.g., Hydrilla, hyacinth, cattail, etc.) or algal mats <u>13</u>
Stormwater Inputs	Stormwater enters system via sheet flow over non-cultivated and/or natural vegetation <u>5</u>	Some direct stormwater inputs (ditches, pipes, cultivated vegetation < 10%) but good BMPs in place <u>13</u>	Moderate direct inputs of stormwater (ditches, pipes, cultivated vegetation 11%-50%) but few BMPs in place <u>5</u>
Bottom Substrate Quality	Diverse mixture of sand, detritus, with small amounts of CPOM/mud/muck. SAV may be present <u>2</u>	Mixture of sand or clay and detritus with higher % CPOM/mud/muck content. SAV may be present <u>14</u>	Moderate layer of CPOM/mud/muck, or hardpacked sand only, or moderate algal growth (mats or Chara) on bottom <u>2</u>
Lakeside Adverse Human Alterations	Very few man-made structures, roads, or other disturbance adjacent to lake (<10%) <u>14</u>	Moderate disturbance visible (structures, roads or other), 10%-49% lakeside affected <u>14</u>	Many structures, roads or other human disturbance visible (50%-70%) lakeside affected <u>14</u>
Upland Buffer Zone	Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18 m buffer <u>9</u>	89%-51% of shoreline with >18m buffer or >75% with 10m to 18m buffer <u>14</u>	50%-30% of shoreline with >18m buffer or 50%-74% with 10m to 18m buffer <u>9</u>
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 <u>15</u>	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 <u>15</u>	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 <u>15</u>
TOTAL SCORE	<u>61</u>		
COMMENTS:			
ANALYSIS DATE: <u>6-9-20</u>	ANALYST: <u>Larry Ashton</u>	SIGNATURE: <u>[Signature]</u>	

**Florida Department of Environmental Protection
Central Laboratory Submittal Form**

LVI C Kit Lakes

Customer: SW-DIST

Requester: Benjamin Paswater

Field Report Prepared By:

Project ID: SMP

Collected By:

Sampling Agency:

Location		Field ID/WIN G3SW0079		☐ Comp ☒ Grab		Collection (comp begin or grab) Date <u>6-9-20</u> Time <u>1010</u>		Eastern ☒ Central		Composite end Date _____ Time _____		Bottle Group(s) (See pg 2)			
Field ID				Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen <u>11.60</u>		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L)		A			
WIN/STOR		Site Name: Lake Blue @ Center		Temp (C) <u>29.2</u>		pH <u>8.62</u>		Sample Depth <u>0.3</u>		☐ ft ☒ m				Sp. Conductance (umho/cm) <u>128.5</u>	
Latitude		☐ dd ☐ dms		Salinity (ppt) <u>0.06</u>		Comments									
Location		Field ID/WIN G3SW0080		☐ Comp ☒ Grab		Collection (comp begin or grab) Date <u>6-9-20</u> Time <u>1150</u>		Eastern ☒ Central		Composite end Date _____ Time _____		Bottle Group(s)			
Field ID				Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen <u>9.21</u>		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L)		A			
WIN/STOR		Site Name: Lake Otis @ Center		Temp (C) <u>29.6</u>		pH <u>8.25</u>		Sample Depth <u>0.5</u>		☐ ft ☒ m				Sp. Conductance (umho/cm) <u>191.6</u>	
Latitude		☐ dd ☐ dms		Salinity (ppt) <u>0.09</u>		Comments									
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)					
WIN/STORET #				Temp (C)		pH		Sample Depth		☐ ft ☐ m		Sp. Conductance (umho/cm)			
Latitude		☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Salinity (ppt)		Comments					
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)					
WIN/STORET #				Temp (C)		pH		Sample Depth		☐ ft ☐ m		Sp. Conductance (umho/cm)			
Latitude		☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Salinity (ppt)		Comments					

Relinquished By: <u>J. Ashton</u>	Date/Time <u>6-9-20 1200</u>	Shipping Method <u>HEP</u>	Number of Coolers Shipped: <u>1</u>	Received By:	Date/Time
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Group: A	Bottle Type:	P-1L	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
	ALKALINITY						
	TURBIDITY						
	W-CL-IC						
	W-COLOR						
	W-F						
	W-TDS						
	W-TSS						
Group: A	Bottle Type:	BP-1L	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
	CHLSUITE-W						
Group: A	Bottle Type:	P-500ML	# of Bottles: 2	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	2
	W-HARD						
	W-ICP						
	W-ICPMS						
Group: A	Bottle Type:	P-500ML	# of Bottles: 2	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	2
	W-NH3						
	W-NO2NO3						
	W-S-A-TP						
	W-TKN						
	W-TOC						
Group: A	Bottle Type:	P-125ML	# of Bottles: 2	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	2
	W-PO4-F						
	W-SO4-IC-F						