



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2020

Meter Passed End

of Day CCV

Yes / No

page 1
of 2

WIN Station Name: See label on page 2

Date: 6/1/2020
(mm/dd/yyyy)

WIN/ Field ID: See label on page 2

WBID: 1449A Latitude: _____

(Decimal Degrees)

County: POLK

ORG ID: 21FLTPA

Longitude: _____

(Decimal Degrees)

Receiving Body of Water: _____

RQ-2020-05-04-36

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Jerry Ashton					
BEN PASUMBA					

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

Water Level: Dry/ Pooled/ Low / Normal / High / Flooded		Meter ID# Chewy SWS	
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: 81047	HA-ID: 16617	RPS-ID: _____
Macrophyte-ID: 11667		LIMS#: 2174194	
Notes:			

Duplicate Sample

Time Zone: EST	Time: _____	Field ID: _____ (WIN ID_DUP)
WIN DMT Activity ID: _____		

Blank

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

LIMS EVENT ID: 2020-06-02-01

WIN Import ID: 21444

Enter Field Parameters, Verify Station ID In LIMS DMT: SM 06/11/2020
(Initials/Date)

QC Station ID, Field Parameters In LIMS DMT: SM 08/10/2020
(Initials/Date)

Scan/Save Field Sheets _____ Migrate Data to WIN: SM 08/10/2020 Verify Data In WIN: SM 09/14/2020
(Initials/Date) (Initials/Date) (Initials/Date)



RQ-2020- see page 1

Customer: SWROC

Project ID: SMP

Collected By: SWROC

Field Report Prepared By:

Sampling Agency: DEP SWROC

Field ID/WIN G3SW0075						Comments:				
Site Name: Lake Deeson @ Center										
Matrix: Fresh / 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)
06/01/2020	1315	9.09	121.4	30.6	8.19	0.3	0.6	4.0	192.4	0.09
EST										
Cental Lab please use top row for login purposes										
		2.24	28.9	28.4	7.24	3.5			192.4	0.09
EST										
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 #		SA9301030		Exp:		10/28/2020 → SA9354050 12-20-20		
Metals (P-500ML)		☒ W-ICPMS ☐ W-ICP ☐ W-HARD				☐ Ice ☒ HNO3*		☒ <2	1	
		Lot #		NA9189080		Exp:		7/8/2020 → NA92541150		
Filtered Nutrients (P125ML)		☐ W-PO4-F ☐ Field Filtered 0.45 µm Filter				☒ Ice			1	
		Filter Lot #		16968882						
		Syringe Lot #		9056849						
Chlorophyll (BP-1L)		☐ CHL-SUITE-W				☐ Ice			1	
Physical/Aggregate (Fresh)(P-1L)		☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CHC / W-COLOR / W-S04-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				☐ Ice				
		☐ Contract Lab								
Molecular (QPCR-P-500ML)		☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-DG3				☐ Ice				
		☐ PCR-GULL2 ☐ PCR-GFD ☐ See Notes								
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				☐ Ice				
		☐ W-PCL-SQ-R ☐ W-CARB-AA (5 ml of MCAA** Buffer Solution)								
Name:		Signature:				Date:		6/1/2020		

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution

Analyst: <u>J. Ashton</u>		Waterbody: <u>LAKE ADESON</u>		County: <u>Rock</u>							
STORET: <u>G35W0075</u>		Signature: <u>[Signature]</u>		Date: <u>6-7-20</u>							
Except where noted as "sp." species level identification required. *Genera that may require lab verification* Plants in bold = FLEPPC invasive exotic.				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)	5	B	11	2	Collected? (✓)	SPECIES (G-L)	5	B	11	2	Collected? (✓)
Acer rubrum						Gordonia lasianthus					
Alternanthera philoxeroides			X	X		Habenaria repens					
Andropogon sp.						Hymenachne amplexicaulis					
Azolla filiculoides (A. caroliniana)						Hydrilla verticillata					
Baccharis sp.						Hydrocotyle sp.	X			X	
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.			X		
Crinum americanum						Leucothoe racemosa (Eubotrys racemosa)					
* Cyperus alternifolius (C. involucratus)						Limnobia spongia					
Cyperus articulatus						Limnophila sessiliflora					
Cyperus haspan						Liquidambar styraciflua					
*Cyperus lecontei						*Ludwigia arcuata					
*Cyperus polystachyos						*Ludwigia leptocarpa	X			X	
*Cyperus odoratus	X					*Ludwigia linearis					
*Cyperus surinamensis						*Ludwigia octovalvis					
Cyrilla racemiflora						* Ludwigia peruviana	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											
*Fuirena											
Fuirena scirpoidea											



Site Name: Lake Deeson @ Center

LATITUDE: _____

LONGITUDE: _____

SAMPLING AGENCY: FDEPWBID: 1449ALAKE SIZE: L RQ: 6

2020-05-04-36

FIELD ID/NAME: _____

WATERSHED / LAKESIDE FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category – from GIS) :

Forest/Natural 5 Silviculture _____ Field/Pasture 20 Agricultural _____ Residential 75 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

12

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)

4

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

13

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 ☒ 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:

0.330.68.199.09121.4192.40.093.528.47.242.2428.9192.40.09

Meter ID: _____

SECCHI (M)

0.4

Total Station Depth (M)

VOB

☐4.0

Sediment Type: (may check more than one)

☒ Sandy ☐ Organic fibrous (peaty, CPOM)☐ Vegetated☐ Sand/Silt ☐ Organic smooth (muck)☐ Other (Specify): _____Sample Taken? ☐ Yes ☒ No

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:

J. Ashton, B. Masarik

SIGNATURE:

[Signature]

DATE:

6-1-20



6: Lake Habitat Assessment Field Sheet

Site Name: Lake Deeson @ Center

ECO-REGION:		COUNTY:	LAKE NAME										FIELD ID / NAME:									
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)					3	2.6	2.2	1.8	1.4	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.1	
Or VOB		20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
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					Lake choked (>40%) with nuisance macrophytes (duckweed, hyacinth, etc.) or algal mats, or few plants present at all (e.g., plants removed)					
		20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
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	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
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					Thick deposits of CPOM, or fine detritus and anaerobic muck/mud/silt, or algal growth or nuisance plants (Hydrilla) cover bottom					
		20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
Lakeside Adverse Human Alterations		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					Highly developed or disturbed (>70% of lakeside affected)					
		20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	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					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					
		20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	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																				
		20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
TOTAL SCORE		73																				
COMMENTS:																						

ANALYSIS DATE:

6-1-20

ANALYST:

J. Ashton

SIGNATURE:

Florida Department of Environmental Protection

Central Laboratory Submittal Form

Customer: SW-DIST

Project ID: SMP

Requester: Benjamin Paswater

Field Report Prepared By:

Collected By: J. Ashton, B. Paswater

Sampling Agency: FAEP

Location		☐ Comp ☐ Grab		Collection (comp begin or grab) Date 6-1-20 Time 1130		Eastern Central		Composite end Date Time		Bottle Group(s) (See pg 2)	
Field ID/WIN G3SW0045		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 8.34		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L)		A	
WIN Site Name: Lake Pansy @ Center		Temp (C) 30.1		pH 7.46		Sample Depth 0.3		Sp. Conductance (umho/cm) 143.5			
Latitude		☐ dd ☐ dms		Salinity (ppt) 0.07		Comments					
Location		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 6-1-20 Time 1315		Eastern Central		Composite end Date Time		Bottle Group(s)	
Field ID/WIN G3SW0075		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 9.09		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L)		A	
WIN/STORET # Site Name: Lake Deeson @ Center		Temp (C) 30.6		pH 8.19		Sample Depth 0.3		Sp. Conductance (umho/cm) 192.4			
Latitude		☐ dd ☐ dms		Salinity (ppt) 0.09		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		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		Sp. Conductance (umho/cm)			
Latitude		☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Salinity (ppt)		Comments	

Relinquished By: J. Ashton	Date/Time 6-1-20 1700	Shipping Method FedEx	Number of Coolers Shipped: 1	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						

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						