

Site Name Z1SL12020 (Center) River Lake

Date 09/20/2018

Field ID Z1SL12020 Storet 54308

Project: Status Small Lakes

Visit ID 79133

RQ: 2018-09-03-12

RPS ID N/A

LIMS ID 2027564

VPDB ID ~~N/A~~ 11247

Sampled By: Frank Butera

HA ID 15579

Mike King

☒ LVI

☐ RPS/LVS Only

☒ Sample Site Created in SBIO

☒ Phys/Chem entered in SBIO

☒ HA entered in SBIO

Initial FB

☒ Date and Initial QA: SS1

☐ RPS entered in SBIO

Initial _____

☐ Date and Initial QA: _____

☒ LVI entered in SBIO

Initial FB 3/28/2019

☒ Date and Initial QA: mm 4/3

☒ < 2 m² vegetation

☒ Plants getting verified

Date submitted: 11/5/2019

☒ Plants verified

Date returned: 3/26/2019

☒ LVI authorized in SBIO

mk
4/3/2019

☒ LVI score: 63



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
SURFACE WATER FIELD SHEET
Watershed Monitoring Section
January 2016

STATION INFORMATION

Station Name (Random ID for Status): Z1SL12020 Date: 09/20/2018
(MM/DD/YYYY)
Waterbody Name: _____ All Times Are: (circle one) ETZ or CTZ
Daylight Savings Time Observed (mid Mar. - early Nov.)? Yes / No
Waterbody Type: (Circle One) Small Lake (≥ 4 and < 10 hectares) Large Lake (≥ 10 hectares)
(collect samples in middle of open water) (collect samples at selected location point)
Stream Canal River
(collect samples in representative area) (collect samples in representative area) (collect samples in representative area)
Field Sheet Completed by: MIKE KING WQ Sample Collected by: MIKE KING

WATER CHARACTERISTICS

Total Water Depth: 5.0 (meters) Secchi Depth: 0.7 (meters) Stage: _____ (feet)
(Average of 2 measurements) (from SHADED side) (if applicable)
Stream/River/Canal Flow: (Circle One) N/A No Flow Flow within Banks Flow Above Banks
(waterbody not stream / river / canal) (please comment if avg. velocity is < 0.05 m/s) (For Status sites, DO NOT sample if flooded above banks.)
Water Level: (Circle One) Low Normal High
Water Sample Collection Device: (Circle One) Direct Grab with Sample Bottle Van Dorn # of grabs Dipper Other _____
Equipment ID (if applicable): Em

FIELD MEASUREMENTS

Meter ID# <u>154179</u>		Read by: <u>F. Butera</u>				
Time (24 hr.) <u>1235</u>	Surface Depth Collected (meters) <u>0.32</u>	Temperature (°C) <u>27.4</u>	Specific Conductance (µmhos/cm) <u>24.7</u>	D.O. (%) <u>36.9</u>	D.O. (mg/L) <u>2.92</u>	pH (SU) <u>4.29</u>
Time (24 hr.) <u>1237</u>	Bottom Depth Collected (meters) <u>4.51</u>	Temperature (°C) <u>21.6</u>	Specific Conductance (µmhos/cm) <u>33.1</u>	D.O. (%) <u>0.9</u>	D.O. (mg/L) <u>0.08</u>	pH (SU) <u>4.74</u>

PRESERVATION INFORMATION

☐ N/A (No samples collected; please state why in comments.)
Were all samples (including QA/QC blanks) properly preserved within 15 minutes of collection? Yes / No
1 vial sulfuric acid added to nutrients sample(s)? Yes / No Sulfuric acid info: (circle one) Chem ID / Lot # SA 8141020 4/11/19
1 vial nitric acid added to metals sample(s)? Yes / No Nitric acid info: (circle one) Chem ID / Lot # NA 8080070 3/21/19
pH of all acidified samples verified to be < 2? Yes / No SCI samples preserved with buffered formalin? Yes / No / NA
All water & sediment samples placed in wet ice (≤ 6°C)? Yes / No
(Please describe any variations to this preservation protocol in the comments section below.) Preserved By: M. King

QA/QC SAMPLE INFORMATION

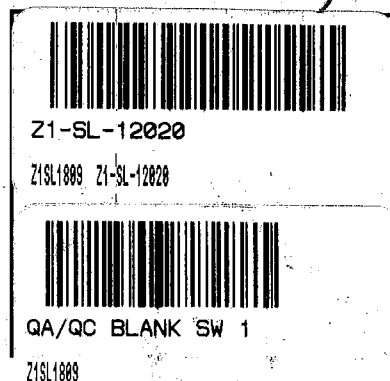
QA/QC Sample: (Circle One) N/A Field Blank Equipment Blank
(Field-cleaned) (Lab-cleaned)
Equipment Used: _____ Time: 1310 (24 hr.)
Collected by: MIKE KING

Photos Taken? Yes / No / Not Due
(Required for all Status sites. Required annually for Trend sites.)

Fuel Powered Equipment Used? (e.g. boat motor) Yes No

Weather Conditions: Hot. Partly Cloudy

Personnel/Visitors On Site: Frank Butera
Mike King



Station Name (Random ID for Status):

71-SL-12424

Date:

8/24/2018

SEDIMENT INFORMATION (for Lakes only)



N/A (Site not a lake or no samples collected. If no samples collected, please state why in comments.)

Collection Depth:

5.0

(meters)

Collection Time:

1245

(24 hr.)

(Total Water Depth)

(Different than surface and bottom time in Field Measurements section)

Collection Interval: (Circle)

Top 3-5 cm

Other:

(cm)

(If top 3-5 is too flocculent)

General Sample Collection Area:

Lake Center

(Describe-- near shore, central, north side near dock, etc.)

Sample Collection Device: (Circle One)

Corer

Ekman

Petite Ponar

Equipment ID:

ED-7

Sediment Type: (Circle All That Apply)

Clay/Silt

Sand

Gravel/Shell Rubble

*Organic Muck

*(very fine-grained flocculent organic material)

Sediment Odors: (Circle One)

Normal

Sewage

Petroleum

Hydrogen Sulfide

Other:

Sediment Color:

Brown

Number of Grabs Collected (3 minimum):

3

Collected by:

M. King

BIOASSESSMENT INFORMATION

Stream Condition Index Information (Appropriate Trend sites)

Was the SCI sample collected? Yes / No / Not Due (NA not an appropriate Trend site)

(Circle One)

Collection Time:

(24 hr.)

(Different than surface and bottom time in Field Measurements section)

If site was an appropriate Trend stream or river but "NO" was selected, why was the SCI not collected (flooded, < 0.05 m/s velocity, etc.)?

Collected by:

Habitat Assessment Information (All Status Streams, Rivers, & Canals; Trend sites appropriate for SCI)

Was the HA performed? (Circle One) Yes / No / Not Due / NA (site not a Status Stream/River/Canal or appropriate Trend site)

If site was a stream, river or canal but "NO" was selected, why was the HA not performed (dangerous site conditions, etc.)?

HA ID 15579
SB10 ID 79133

Performed by:

F. Butera

Rapid Periphyton Survey Information (Trend sites appropriate for SCI)

Was the RPS performed? (Circle One) Yes / No / Not Due / NA (not an appropriate Trend site)

ALGAL-ID sample collected? (circle one) Yes No

If site was an appropriate Trend stream or river but "NO" was selected, why was the RPS not performed (dangerous site conditions, etc.)?

Performed by:

Linear Vegetation Survey Information (Trend sites appropriate for SCI) Lake Vegetation Index Information (Status Lakes)

Was the LVS performed? (Circle One) Yes / No / Not Due / NA (not an appropriate Trend site)

Number of Plant ID specimens collected:

Was the LVI performed? (Circle One) Yes / No / Not Due (LVI performed previous year) / NA (not a Status Lake)

6

If site was an appropriate Trend stream or river but "NO" was selected, why was LVS not performed (< 2 m² aquatic vegetation, dangerous site conditions, etc.)?

If site was a Status Lake but "NO" was selected, why was LVI not performed (LVI will be performed at later date, dangerous site conditions, etc.)?

Macro ID 11247

Performed by:

F. Butera

Comments: Include information such as: estimated level of impact to the system (ex. obvious pollution, etc.), any variations from normal preservation protocols (ex. adding more than 1 vial acid, etc.), any problems experienced with collecting samples (ex. sediment grab 1 lost due to fall-out, etc.), any site specifics (ex. dense submerged vegetation, etc.), any site conditions (ex. recent heavy rains, etc.), description of any photos taken, etc., any qualifiers needed (ex. "J" for failed calibration verification, etc.), etc.

Dam downstream of lake has caused water level to raise. Road surrounding lake now 71m below water surface

Invasive Exotic Apple Snail eggs present:

Yes

No

(pink, clustered, small, numerous eggs)

Sampler Names: (PLEASE PRINT)

FRANK Butera

Mike King

Sampler Signatures:

[Signature of Frank Butera]
[Signature of Mike King]

OFFICE USE ONLY

Reviewed for completion by:

Date:

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: 79133 MACROPHYTE ID: 11247 LATITUDE: N 30.42083
 COUNTY: Bay (Vernon) STORET #: 54308 LONGITUDE: W - 85.68561
 DATE: 8/20/2017 TIME: 12:35 CTZ SAMPLING AGENCY: FL DEP - NWROC (21FLPNS)
 SITE NAME: Z1-SL-12020 WBID: 795
 FIELD ID/NAME: Z1SL02020 LAKE SIZE: 14.8 acres RQ: 2018-09-03-12

WATERSHED / LAKESIDE FEATURES 6 hrs LMS ID2027564

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)														
☒	☒	☒	☒	☒	☒	☐	☐														
Local Watershed Erosion (select one): ☒ None ☐ Slight ☐ Moderate ☐ Heavy								Artificially Impounded			LDI:										
Local Watershed NPS Pollution: ☐ No evidence ☐ Slight ☐ Moderate ☒ Heavy								☒ Yes ☐ No			Land Use Source & Year:										
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										
<u>18</u>		20	19	<u>18</u>	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)										
<u>18</u>		20	19	<u>18</u>	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										
<u>173</u>		20	19	18	<u>17</u>	16	15	14	13	12	11	10	9	8	7	6	5	4	<u>3</u>	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>SA8101024</u> Exp. Date: <u>4/1/19</u> Alkalinity Sample Taken? ☒ Yes ☐ No Lot # <u>NA8080074</u> Exp. Date: <u>3/21/19</u> Water Level ☐ Low ☒ Normal ☒ High								Water Odors: ☒ Normal ☐ Sewage ☐ Petroleum ☐ 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>12.5</u> <u>12.1</u> <u>3.5</u> <u>0.2</u> <u>22.5</u> <u>27.6</u> Mid-Depth: <u>0.32</u> <u>27.4</u> <u>4.29</u> <u>2.92</u> <u>36.9</u> <u>24.7</u> <u>0.01</u> Bottom: <u>4.51</u> <u>21.6</u> <u>4.74</u> <u>0.08</u> <u>0.9</u> <u>33.5</u> <u>0.01</u>								Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other			
Meter ID: <u>154179</u> <u>Pro-DSS</u>								Clarity: ☐ Clear ☐ Opaque ☐ Turbid ☒ Slightly Turbid Color: ☐ Clear ☒ Tannic ☐ Green			
Sediment Type: (may check more than one) ☐ Sandy ☐ Organic fibrous (peaty, CPOM) ☐ Vegetated ☐ Sand/Silt ☒ Organic smooth (muck) ☐ Other (Specify):								SECCHI (M) <u>0.7</u> Total Station Depth (M) <u>5.0</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>Fed & delivered 9/21/2017</u>								Additional Notes: <u>Downstream dam has raised H2O level above Road. Road is 7' in below H2O surface</u>			

SAMPLING TEAM: Frank Butera, Mike King

SIGNATURE: [Signature]

DATE: 8/20/2017

STATE OF FLORIDA, DEPARTMENT OF ENVIRONMENTAL PROTECTION
Lake Habitat Assessment Field Sheet

Store/ WIN ID NUMBER: 54308	DATE (M/D/Y) 09/20/2018	LAKE NAME: Z1-SL-12020 (River Lake)		FIELD ID / NAME: 735L22020
ECO-REGION: 795	COUNTY: Bay	SAMPLING LOCATION/DESCRIPTION: Vernon, FL		LAKE SIZE: 14.8 Acres
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 7	Secchi >3 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 13	Diverse, expected native vegetation (emergent or submersed), less than 5% nuisance taxa 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 18	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
Bottom Substrate Quality 14	Diverse mixture of sand, detritus, with small amounts of CPOM/mud/muck. SAV may be present 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 18	Very few man-made structures, roads, or other disturbance adjacent to lake (<10%) 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 3	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
Adverse Watershed Land Use 14	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: **87** COMMENTS: **Lake encircled by paved drive * Drive under water @ time of sample**

ANALYSIS DATE: **9/20/2018** ANALYST: Frank Butera, Mike King SIGNATURE: *[Signature]*

* Water level of lake has been at current levels for months per property owner.

SBO ID: 79133

HA ID: 15579

RQ-2018-09-03-12

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: Z1-SL-12020 (Un-Named Pond) <u>River Lake</u>						County: Bay (Vernon)						Date: <u>09/20/2018</u>						
Analyst: F. Butera						Signature:						STORET:						
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 <u>2, 5, 8, 11</u> 3, 6, 9, 12						
SBIO ID <u>79133</u>		<u>CRMS ID</u>		<u>2427564</u>		2	5	8	11	Collect ed? (v)	Macro ID <u>11247</u>		<u>2</u>		<u>5</u>	<u>8</u>	<u>11</u>	Collect ed? (v)
SPECIES											SPECIES							
Acer rubrum											Habenaria repens							
Alternanthera philoxeroides											Hydrilla verticillata							
Andropogon sp.											Hydrocotyle sp.		<u>1</u>			<u>1</u>		
Azolla filiculoides (A. caroliniana)											Hygrophila polysperma		<u>1</u>		<u>1</u>	<u>1</u>	<u>1</u>	
Baccharis sp.											*Hypericum fasciculatum		<u>1</u>		<u>1</u>	<u>1</u>	<u>1</u>	
Bacopa caroliniana											*Hypericum hypericoides							
Bacopa monnieri											*Hypericum myrtifolium							
Bidens laevis											Ilex cassine							
Bidens mitis											Ipomoea aquatica							
Blechnum serrulatum											Ipomoea sagittata							
Boehmeria cylindrica											Itea virginica							
Brasenia schreberi											Juncus effusus							
Cabomba caroliniana											*Juncus marginatus						<u>1</u>	
Casuarina equisetifolia											*Juncus megacephalus							
Centella asiatica											Juncus repens							
Cephalanthus occidentalis		<u>1</u>		<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	*Juncus scirpoides							
Ceratophyllum demersum											Lachnanthes caroliniana		<u>1</u>		<u>1</u>	<u>1</u>	<u>1</u>	
Chara sp.											Leersia hexandra		<u>1</u>		<u>1</u>	<u>1</u>	<u>1</u>	
Cladium jamaicense											Landoltia punctata (Spiro. punctata)							
Cliftonia monophylla											Lemna sp.							
Colocasia esculenta											Leucothoe racemosa (E. racemosa)							
*Commelina											Limnium spongia							
Crinum americanum											Limnophila sessiliflora							
*Cyperus alternifolius (C. involucratus)											Liquidambar styraciflua							
Cyperus articulatus											*Ludwigia arcuata							
Cyperus haspan											*Ludwigia leptocarpa							
*Cyperus lecontei											*Ludwigia linearis							
*Cyperus polystachyos											*Ludwigia octovalvis							
*Cyperus odoratus											*Ludwigia peruviana							
*Cyperus surinamensis											*Ludwigia repens <u>WOTS</u>						<u>1</u>	
Cyrilla racemiflora		<u>1</u>		<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	*Ludwigia							
Decodon verticillatus											Luziola fluitans (H. carolinensis)						<u>1</u>	
Diodia virginiana											Lyonia lucida							
*Echinochloa crus-galli											Magnolia virginiana							
*Echinochloa muricatum											Mayaca fluviatilis		<u>1</u>		<u>1</u>	<u>1</u>		
Echinochloa walteri											Melaleuca quinquenervia							
Eclipta prostrata (E. alba)											Micranthemum glomeratum							
Egeria densa											Micranthemum umbrosum							
Eichhornia crassipes											Mikania scandens							
*Eleocharis baldwinii											Mimosa pigra							
*Eleocharis											Myrica cerifera							
Eleocharis cellulosa											Amphicarpum		<u>1</u>		<u>1</u>	<u>1</u>	<u>1</u>	
Eleocharis equisetoides											Eleocharis mytille							
Eleocharis interstincta											*Eleocharis retrofracta						<u>1</u>	<u>1</u>
*Eriocaulon compressum											*Eleocharis americana		<u>1</u>		<u>1</u>	<u>1</u>	<u>1</u>	
*Eriocaulon decangulare											Sesuvium		<u>1</u>		<u>1</u>	<u>1</u>	<u>1</u>	
Eupatorium capillifolium		<u>1</u>		<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	*Eriocaulon decangulare		<u>1</u>		<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>
*Fuirena											American Burnbury		<u>1</u>		<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>
Fuirena scirpoidea																		
Gordonia lasianthus																		

RQ-2018-09-03-12

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Waterbody: Waterbody: Z1-SL-12020		Storet: 54348				Date: 09/20/2018		SBIO ID 79133		Macro ID 11247			
SPECIES		2	5	8	11	Collect ed? (v)	SPECIES		2	5	8	11	Collect ed? (v)
LMS ID 2027564							Macro-ID 11247						
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						
Nitella spp.							Scirpus cubensis (Oxycaryon cubense)						
Nuphar sp.							Scirpus cyperinus						
Nymphaea odorata							*Sesbania						
Nymphoides aquatica							Solidago sp.						
Nyssa sylvatica var. biflora							Sparganium americanum						
Orontium aquaticum							Spartina bakeri						
Osmunda cinnamomea							Spirodela polyrhiza						
Osmunda regalis							Taxodium sp.			U	I	I	
Panicum hemitomon							Thalia geniculata						
Panicum repens		I	I		I		Thelypteris palustris						
Paspalidium geminatum							Triadenum virginicum			X	I		
*Paspalum repens							Typha sp.						
Paspalum urvillei					I		Urochloa mutica (Brachiaria mutica)						
Peltandra sp.							*Utricularia gibba (U. biflora)						
Persea sp.							*Utricularia floridana						
Pennisetum purpureum							*Utricularia foliosa						
Phragmites australis							*Utricularia inflata						
Pinus elliotii							*Utricularia purpurea						
Pistia stratioides							*Utricularia cornuta						
Pluchea sp.							*Utricularia radiata						
*Polygonum glabrum (densiflorum)							Vallisneria americana						
*Polygonum hydropiperoides							*Websteria confervoides						
*Polygonum punctatum							Wedelia trilobata (Sphag. trilobata)						
*Polygonum							Wolffiella spp.						
Pontederia cordata		I					Woodwardia virginica						
*Potamogeton diversifolius							Xyris sp.			I		I	
*Potamogeton illinoensis							Zizania aquatica						
*Potamogeton pusillus							Zizaniopsis milacea						
*Potamogeton pectinatus (Stuck. pectinatus)							Scutellaria floridana					I	
Proserpinaca pectinata							Rubus			I			
*Rhexia							Hypericum tetrapet			I			
*Rhynchospora corniculata							Myriophyllum sp. upk					I	
*Rhynchospora inundata							Ciriodendron latifolium			I			
Rhynchospora tracyi							Phytanthus				I		
Ricciocarpus natans							Unknown Creeping				I		✓
Sabal palmetto							(has pics 25)						
Sacciolepis striata		I	I	I	I		Cyperus ovatus *					I	✓
*Sagittaria filiformis							C. retroceus Field ID						
*Sagittaria graminea													
*Sagittaria isoetiformis													
Sagittaria lancifolia													
Sagittaria latifolia													
Panicum virgatum		I			I		Eragrostis sp		I		I		✓ A.O.
RQ-2018-09-03-12							*Schoenoplectus tabernaemontani = Scirpus validus						

Photo Log

Storet

Station Name: Z1-SL-12020. Un-Named Pond

Date:

Samplers. F. Butera,

Ref:
Dep:

Date: 27Aug18
Wgt: 25.00 LBS

SHIPPING: 0.00
SPECIAL: 0.00
HANDLING: 0.00
TOTAL: 0.00

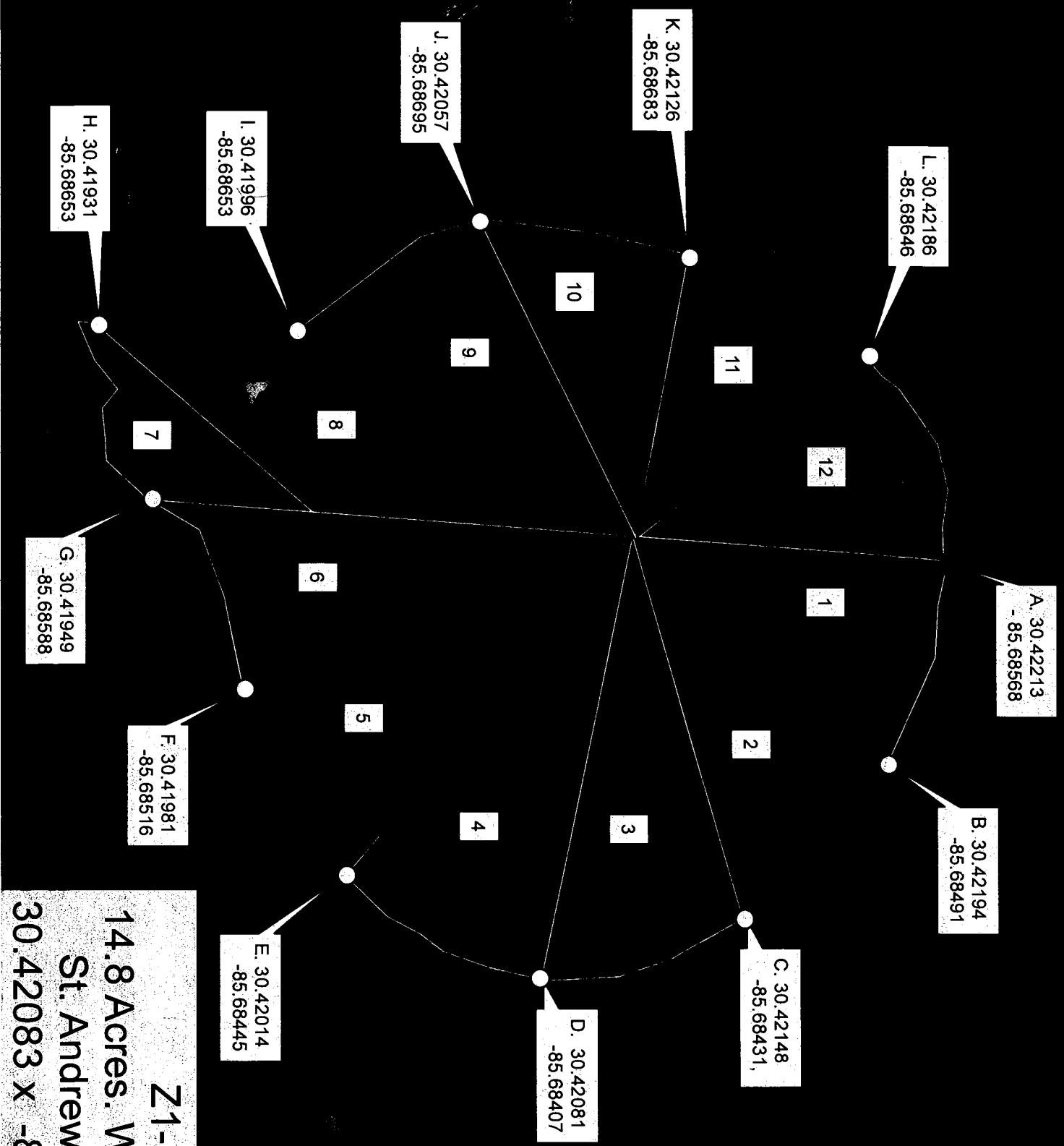
DV:

0.00

Svc: PRIORITY OVERNIGHT Master 4385 5032 8840
TRCK: 4385 5032 8909

- 1 Drive 2
- 2 Drive 2
- 3 Drive 3
- 4 Drive 4
- 5 Drive 5
- 6 Point East
- 7 Point North
- 8 Point South
- 9 Point West
- 10 Section 8 -
- 11 Section 8 - Duck
- 12 Section 8 - S
- 13 Section 11 - N
- 14 Section 8 - Unk. Creeper
- 15 Section 8 - Unk. Creeper 2
- 16
- 17

Notes.



Z1-SI-12020
14.8 Acres. WBID 795
St. Andrew's Sound
30.42083 X -85.68561

Jim Dandy Rd

Z1-SL-12020

Status Storet TBD
 Receiving Water Basin, WBID Cedar Creek, Econfina Creek
 City, County Saint Andrew's Bay, 795
 Lake Acreage S. of Vernon, Bay County
 Lake Acreage 14.8
 Circumference (M) 968.65
 Seg. Length (M) 80.72083333

	Location	Dec. Latt.	Dec. Long.
	Storet	30.42083	-85.68561
	A	30.42213	85.68568
2	B	30.42194	85.68491
	C	30.42148	85.68431
	D	30.42081	85.68407
5	E	30.42014	85.68445
	F	30.41981	85.68516
	G	30.41949	85.68588
8	H	30.41931	85.68653
	I	30.41996	85.68653
	J	30.42057	85.68695
11	K	30.42126	85.68683
	L	30.42186	85.68646

Wind Mid DEPTH
 Temp. 2.5 23.8 DO 0.07 D.O. % 0.8 pH 4.48 Sal 0.01 SpC 26.1