

LVI

Site Name Lake Buchanan Sample Date 6/11/19
WBID 3169A3 WIN ID G4CED146 RQ 2019-06-03-44

	Initial/Date	QC Initial/Date
Water chemistry data to LIMS	LMD 6/18/19	MKL 6/27/19
Create SBIO station visit -79820	LMD 6/17/19	n/a
Vascular Entry (add LIMS ID)	LMD 6/17/19	MKL 6/27/19
Lake Observation Sheet Entry	LMD 6/17/19	MKL 6/27/19
Authorize SBIO data	MKL 6/27/19	n/a
Scan all sheets to 21FLCEN folder	LMD 6/28/19	n/a
LIMS/WIN migration	LMD 8/23/19	n/a
File in cabinet		n/a

Comments/notes:

This RA include 2 WQ samples (Ellen / Concord)



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / NoWIN Station Name: Lake Buchanan @ CenterDate: 06/11/2019

(mm/dd/yyyy)

WIN/ Field ID: G4CE0146WBID: 3169A3Latitude: 28.49671

(Decimal Degrees)

County: OrangeORG ID: 21FLCENLongitude: -81.40554

(Decimal Degrees)

Receiving Body of Water: _____

RQ-2019- 06-03-44

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment				
Mike Linger					☒	☒	☒	☒	☒	☒ Sample Container	☒ Van Dorn	☐ Pole		
Mike Drennan					☒	☒	☒	☒	☒	☒ Carboy	☒ Syringe			
										☐ Dipper	☒ Other			
										Depth Measured with <u>Secchi Disk Line / Meter</u>				
										Equipment ID <u>Leadfoot, Knothead, Crusty/Bucket, Mucky/Trap</u>				
										Collection Method				
										☐ Wading	☒ Canoe/Kayak			
										☐ From Shore	☒ Electric Motor			
										☐ Other	☐ Gasoline Motor			
Water Level: Dry/ Pooled/ Low / <u>Normal</u> / High / Flooded					Motor ID# <u>Shrimp Trap</u>					Matrix: <u>Fresh</u> / Marine / DI				
Photos: <u>Yes</u> No					Flow: No Flow / Intestinal / Flowing / <u>NA</u>					Tide: Rising/ Falling/ Slack/ <u>NA</u>				
					Tide Times: High Low									
Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPT)	Sp COND (µmhos/cm)	Temp. (C°)				
(EST)	1018	5.5	0.3	2.7	1.56	20.4	7.26	0.07	154.5	29.1				
CEN			5.0		0.08	1.0	6.50	0.09	189.6	21.3				
Biological Samples Collected: None <u>HA</u> SCI RPS Algae ID LVS <u>LVI</u> Other:														
SBIO ID Numbers: SBIO-ID: <u>79820</u> HA-ID: <u>16064</u> RPS-ID: Macrophyte-ID: <u>11376</u> LIMS#: <u>2094597</u>														
Parameter Suite		Parameter Methods					Preservation		Lot#	Expiration	pH Check			
Preserved Nutrients		☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP					☒ Ice ☒ H2SO4		<u>SA9010030</u>	<u>4/10/20</u>	☒ <2			
Metals		☐ W-ICPMS ☐ W-ICP					☐ Ice ☐ HNO3				☐ <2			
Filtered Nutrients		☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter					☒ Ice		13615055					
Chlorophyll		☒ CHLSUITE-W					☒ Ice							
Physical/Aggregate (Fresh)		☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CI-IC / W-COLOR / W-SO4-IC / W-TDS					☒ Ice							
Physical/Aggregate (Marine)		☐ Alkalinity / W-F / W-TSS / TURBIDITY					☐ Ice							
Macroinvertebrates		☐ MI-FW-QLDC					☐ Formalin							
Periphyton		☐ ALGAE-ID					☐ Ice							
Microbiology		☐ E Coli ☐ F Coli ☐ Enterococci					☐ Ice							
Molecular		☐ PCR-FILTER ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-HF183 ☐ PCR-DG3 ☐ PCR-GFD					☐ Ice							
Tracers		☐ W-E8321-DI ☐ W-E8321-MS					☐ Ice							
Pesticides		☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-E8321-DI ☐ W-PCL-SQ-R ☐ WE8321-MS ☐ W-CARB-AA					☐ Ice ☐ Other							
Phytoplankton		☐ DTY-QN-C ☐ PND-QN-C					☐ Ice							

Notes:

Signature: _____

Date: 6/11/19

WIN ID / Field ID →

Lake Buchanan @ Center



G4CE0146

LIMS EVENT ID: CENT-DIST-2019-06-12-01Enter Field Parameters, Verify Station ID in LIMS DMT: LMD 06/17/19QC Station ID, Field Parameters in LIMS DMT: AKL 6/27/19Scan/Save Field Sheets LMD 6/28/19
(Initials/Date)

Migrate Data to WIN: _____

LMD 8/23/19
(Initials/Date)

Verify Data in WIN: _____

(Initials/Date)

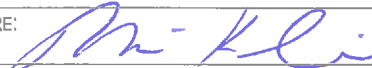
SAMPLE ID: 79820 MACROPHYTE ID: 11376 LATITUDE: 28.49671
COUNTY: Orange STORET #: 64CE0146 LONGITUDE: -81.40554
DATE: 6/11/19 TIME: 1018 SAMPLING AGENCY: FDEP CE-ROC
SITE NAME: Lake Buchanan @ Center WBID: 3169A3
FIELD ID/NAME: 64CE0146 LAKE SIZE: Med RQ: 2019-06-03-44

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category – from GIS) : Forest/Natural Silviculture Field/Pasture Agricultural Residential Commercial Industrial Other (Specify)														LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer) LDI:							
Local Watershed Erosion (select one) : ☐ None ☒ Slight ☐ Moderate ☐ Heavy														Artificially Impounded ☐ Yes ☒ No							
Local Watershed NPS Pollution : ☐ No evidence ☐ Slight ☐ Moderate ☒ Heavy																					
STORMWATER INPUTS <u>4</u>		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				
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					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				
BUFFER ZONE <u>2</u>		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				

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: <table border="1"><thead><tr><th></th><th>Depth (M)</th><th>Temp. (°C)</th><th>pH (SU)</th><th>D.O. (MG/L)</th><th>D.O. Sat. (%)</th><th>Cond. (UMHO/CM)</th><th>Salinity (PPT)</th></tr></thead><tbody><tr><td>Top:</td><td>0.3</td><td>29.1</td><td>7.26</td><td>1.56</td><td>20.4</td><td>154.5</td><td>0.07</td></tr><tr><td>Mid-Depth:</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Bottom:</td><td>5.0</td><td>21.3</td><td>6.50</td><td>0.08</td><td>1.0</td><td>189.6</td><td>0.09</td></tr></tbody></table> Meter ID: <u>Shrimp Trap</u>			Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat. (%)	Cond. (UMHO/CM)	Salinity (PPT)	Top:	0.3	29.1	7.26	1.56	20.4	154.5	0.07	Mid-Depth:								Bottom:	5.0	21.3	6.50	0.08	1.0	189.6	0.09	Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other _____	
	Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat. (%)	Cond. (UMHO/CM)	Salinity (PPT)																												
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Sediment Type: (may check more than one) ☐ Sandy ☒ Organic fibrous (peaty, CPOM) ☐ Vegetated ☒ Sand/Silt ☐ Organic smooth (muck) ☐ Other (Specify): _____		Clarity: ☒ Clear ☐ Opaque ☐ Turbid ☐ Slightly Turbid SECCHI (M) <u>2.7</u> 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		Abundance: <table border="1"><thead><tr><th></th><th>Absent</th><th>Rare</th><th>Common</th><th>Abundant</th></tr></thead><tbody><tr><td>Periphyton</td><td>☐</td><td>☒</td><td>☐</td><td>☐</td></tr><tr><td>Nuisance Plants</td><td>☐</td><td>☐</td><td>☒</td><td>☐</td></tr><tr><td>Submersed Plants</td><td>☐</td><td>☒</td><td>☐</td><td>☐</td></tr><tr><td>Exotic Apple Snails</td><td>☒</td><td>☐</td><td>☐</td><td>☐</td></tr></tbody></table>			Absent	Rare	Common	Abundant	Periphyton	☐	☒	☐	☐	Nuisance Plants	☐	☐	☒	☐	Submersed Plants	☐	☒	☐	☐	Exotic Apple Snails	☒	☐	☐	☐							
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Periphyton	☐	☒	☐	☐																															
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Submersed Plants	☐	☒	☐	☐																															
Exotic Apple Snails	☒	☐	☐	☐																															
Weather Conditions: <u>90's clear</u>		Additional Notes: <u>Small algal bloom on north side of lake.</u> <u>- Active veg spraying during assessment (SW corner only)</u>																																	
SAMPLING TEAM: <u>Mike Linger / Mike Drennon</u>		SIGNATURE: <u>[Signature]</u> DATE: <u>6/11/15</u>																																	

DEP Form FD 9000-6: Lake Habitat Assessment Field Sheet

STORET STATION NUMBER: G4CE0146	DATE (M/D/Y) 06/11/2019	LAKE NAME Lake Buchanan		FIELD ID / NAME: G4CE0146	
ECO-REGION:	COUNTY: Orange	SAMPLING LOCATION/DESCRIPTION: @ Center		LAKE SIZE: Medium	
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		Poor	
Secchi 14	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 8	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 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	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 6	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 Alternations 3	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 2	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 4	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 41	COMMENTS:				

ANALYSIS DATE: 6/19/19	ANALYST: Mike Linger	SIGNATURE: 
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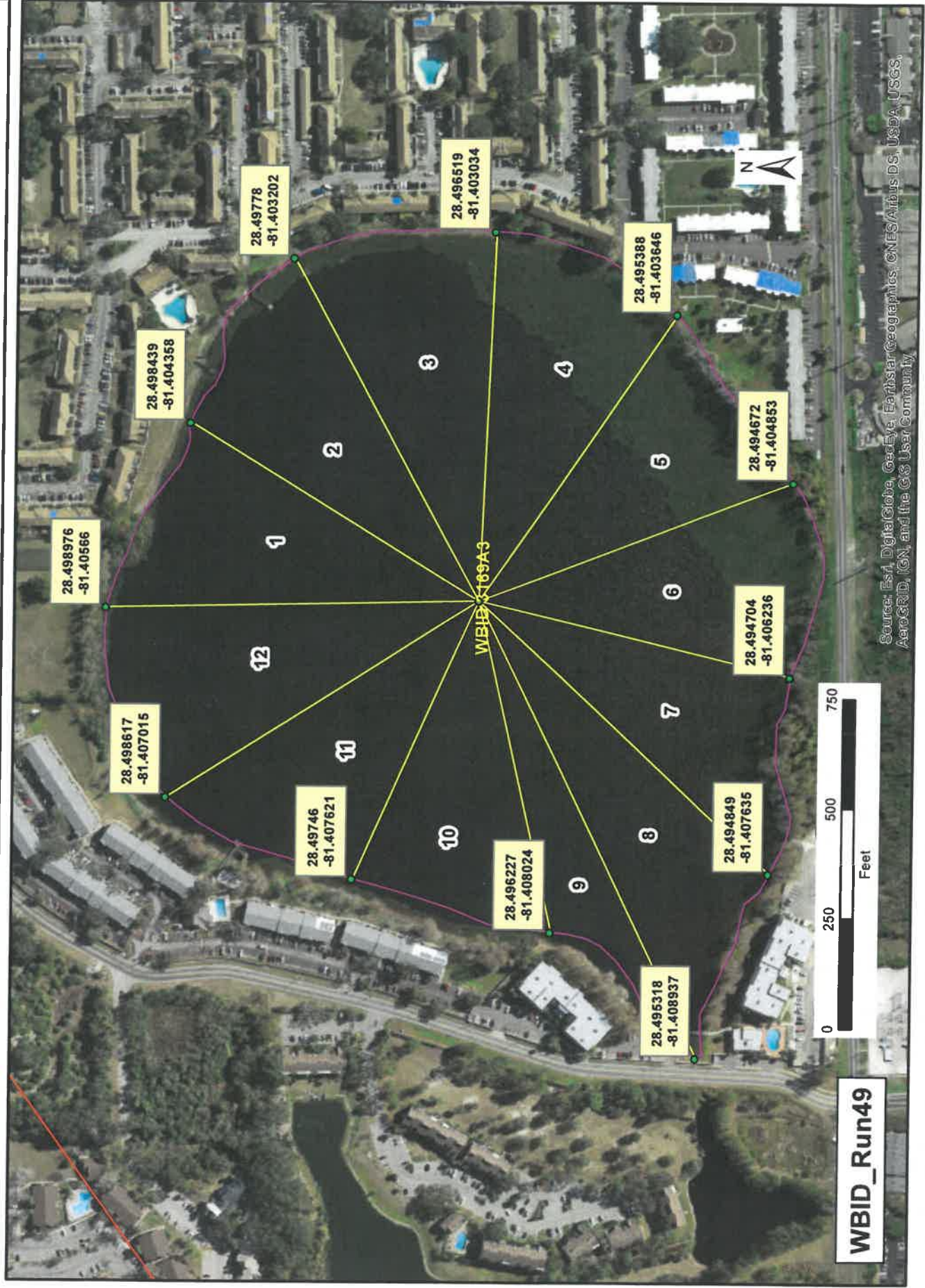
DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: <i>Lk. Buchanan</i>		County: <i>Orange</i>		Date: <i>6/11/19</i>							
Analyst: <i>Mike Linger / Mike Drennan</i>		Signature: <i>[Signature]</i>		STORET: <i>04CE0196</i>							
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	2	5	8	11	Collected? (✓)	SPECIES	2	5	8	11	Collected? (✓)
<i>Acer rubrum</i>						<i>Fraxinus</i>					
<i>Alternanthera philoxeroides</i>	D	/	/	/		<i>Fuirena scirpoides</i>					
<i>Amaranthus australis</i>						<i>Gordonia lasianthus</i>					
<i>Andropogon</i> sp.						<i>Habenaria repens</i>					
<i>Azolla filiculoides</i> (<i>A. caroliniana</i>)						<i>Hibiscus coccineus</i>					
<i>Baccharis</i> sp.						<i>Hibiscus grandiflora</i>					
<i>Bacopa caroliniana</i>						<i>Hydrilla verticillata</i>					
<i>Bacopa monnieri</i>	/					<i>Hydrocotyle</i> sp.	/	/	/	/	
<i>Bidens alba</i>						<i>Hygrophila polysperma</i>					
<i>Bidens laevis</i>						<i>Hymenocallis</i> sp.					
<i>Bidens mitis</i>						* <i>Hypericum fasciculatum</i>					
<i>Blechnum serrulatum</i>		/	/	/		* <i>Hypericum hypericoides</i>					
<i>Boehmeria cylindrica</i>	/	/	/	/		* <i>Hypericum myrtifolium</i>					
<i>Brasenia schreberi</i>						<i>Ilex cassine</i>					
<i>Cabomba caroliniana</i>						<i>Ipomoea aquatica</i>					
<i>Canna</i>						<i>Ipomoea sagittata</i>					
<i>Centella asiatica</i>						<i>Itea virginica</i>					
<i>Cephalanthus occidentalis</i>						<i>Juncus effusus</i>					
<i>Ceratophyllum demersum</i>						* <i>Juncus marginatus</i>					
<i>Chara</i> sp.						* <i>Juncus megacephalus</i>					
<i>Cicuta maculata</i>						<i>Juncus repens</i>					
<i>Cinnamomum camphora</i>						* <i>Juncus scirpoides</i>					
<i>Cladium jamaicense</i>						<i>Lachnanthes caroliniana</i>					
<i>Colocasia esculenta</i>	/					<i>Leersia hexandra</i>					
* <i>Commelina</i>						<i>Landoltia punctata</i> (<i>Spirodela punctata</i>)					
<i>Crinum americanum</i>						<i>Lemna</i> sp.					
* <i>Cyperus alternifolius</i> (<i>C. involucratus</i>)						<i>Leucothoe racemosa</i> (<i>Eubotrys racemosa</i>)					
<i>Cyperus articulatus</i>	/	/	/	/		<i>Limnium spongia</i>					
<i>Cyperus haspan</i>	/	/	/	/		<i>Limnophila sessiliflora</i>					
* <i>Cyperus lecontei</i>						<i>Liquidambar styraciflua</i>					
* <i>Cyperus polystachyos</i>						* <i>Ludwigia arcuata</i>					
* <i>Cyperus odoratus</i>	/					* <i>Ludwigia grandiflora</i>					
* <i>Cyperus surinamensis</i>						* <i>Ludwigia hexapetala</i>					
<i>Cyrilla racemiflora</i>						* <i>Ludwigia leptocarpa</i>					
<i>Decodon verticillatus</i>						<i>Ludwigia</i> (native)					
<i>Diodia virginiana</i>						* <i>Ludwigia octovalvis</i>					
* <i>Echinochloa crus-galli</i>						* <i>Ludwigia peruviana</i>	/	/	/	/	
* <i>Echinochloa muricatum</i>	/	/	/	/		* <i>Ludwigia repens</i>	/	/	/	/	
<i>Echinochloa walteri</i>	/	/	/	/		<i>Ludwigia suffruticosa</i>					
<i>Eclipta prostrata</i> (<i>E. alba</i>)						<i>Luziola fluitans</i> (<i>Hydrochloa carolinensis</i>)					
<i>Eichhornia crassipes</i>						<i>Magnolia virginiana</i>					
* <i>Eleocharis</i>						<i>Mayaca fluviatilis</i>					
<i>Eleocharis cellulosa</i>						<i>Melaleuca quinquenervia</i>					
* <i>Eleocharis elongata</i>						<i>Micranthemum glomeratum</i>					
<i>Eleocharis equisetoides</i>						<i>Micranthemum umbrosum</i>					
<i>Eleocharis interstincta</i>						<i>Mikania scandens</i>	/	/	/	/	
<i>Eleocharis submersed viviparous</i>						<i>Mimosa pigra</i>					
* <i>Eriocaulon compressum</i>						<i>Myrica cerifera</i>					
* <i>Eriocaulon decangulare</i>											
<i>Eupatorium capillifolium</i>	/	/	/	/							

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Site: LK. Buchanan					Date: 6/11/19						
SPECIES	2	5	8	11	Collected? (✓)	SPECIES	2	5	8	11	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 gibba (U. biflora)					
Persea sp.						*Utricularia foliosa					
Pennisetum purpureum						*Utricularia inflata					
Phragmites australis				✓		*Utricularia purpurea					
Pinus elliotii		✓				*Utricularia radiata					
Pistia stratioides						*Utricularia resupinata					
Pluchea sp.						Vallisneria americana					
*Polygonum glabrum (densiflorum)						Vitis sp.		✓			
Polygonum hirsutum						*Websteria confervoides					
*Polygonum hydropiperoides						Wedelia trilobata (Sphagneticola trilobata)					
*Polygonum punctatum						Wolffiella spp.					
*Polygonum						Woodwardia virginica					
Pontederia cordata						Xyris sp.					
*Potamogeton diversifolius						Zizania aquatica					
*Potamogeton illinoensis						Zizaniopsis milacea					
*Potamogeton pusillus						<i>Ptilimnia capillareum</i>	✓				
*Potamogeton pectinatus (Stuckenia pectinatus)						<i>Utricularia polyzona</i>	✓	✓			
Proserpinaca pectinata						<i>Juncus acuminatus</i>	✓				
*Rhexia											
*Rhynchospora corniculata											
*Rhynchospora inundata											
Rhynchospora nitens											
Ricciocarpus natans											
Sabal palmetto											
Sacciolepis striata											
*Sagittaria filiformis											
*Sagittaria graminea											
*Sagittaria isoetiformis											
Sagittaria lancifolia											
Sagittaria latifolia											

LVI Map for , WBID 3169A3, Lake Buchanan, 2019



WBID_Run49