FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

March 2017

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Data Qualified? Yes / No

Location/STORET Station Name: Lake Weir @ Center **Date:** 08/08/2017 (mm/dd/yyyy)

STORET # G1CE0064 **WBID:** 2790A **Latitude:** 29.016338 (Decimal Degrees)

County: Marion **RQ -** 2017-08-07-34 **ORG ID:** 21FLCEN **Longitude:** -81.93773 (Decimal Degrees)

Receiving Body of Water: _____ **Field ID:** G1CE0064

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Mike Brenner	✓	✓	✓	✓	✓
Terry Riordan					

Sampling Equipment

☑ Sample Container ☐ Van Dorn ☐ Pole
☐ Carboy ☑ Syringe
☐ Dipper ☐ Other _____
Equipment ID _____

Collection Method

☐ Wading
☐ From Shore
☐ Other (note below)

Via Boat:
☐ Canoe/Kayak
☐ Electric Motor
☑ Gasoline Motor

Water Level: Dry / Pooled / Low / (Normal) / High / Flooded

Meter ID# Boop/NON **Photos:** (Yes) / No

Matrix: (Fresh) / Marine / DI

Tide Falling: Yes / No / (NA)

Time Zone	Time	Sample Depth (m)	Total Depth (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (ppt)	Secchi Disk (m)	Sp COND (µmhos/cm)	Temp. (C°)
(EST)	1132	0.3	6.0	8.8	116	7.6	0.1	1.7	271	29.8
CEN	1136	5.5		7.9	104	7.5	0.1		271	29.6

Biological Samples Collected: (None) HA SCI RPS Algae ID LVS (LVI) Other _____

SBIO ID Numbers: SBIO-ID: 7782 RPS-ID: _____ Macrophyte-ID: 10586 LIMS#: 1919895

Parameter Suite	Parameter Methods	Preservation	Acid Lot#	Expiration	pH Check
Preserved Nutrients	☑ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☑ Ice ☑ H_2SO_4	7093010	4/3/18	☑ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO_3			☐ <2
Filtered Nutrients	☑ W-PO4-F ☑ Field Filtered 0.45 µm Filter	☑ Ice			
Chlorophyll	☑ CHLSUITE-W	☑ Ice			
Physical/Aggregate (Fresh)	☑ Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-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 ☐ qPCR	☐ Ice			
Tracers	☐ W-SUC-AA-R ☐ W-UHERB-AA ☐ W-AHERB-AA	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH ☐ W-SUC-AA-R	☐ Ice ☐ Other			

Contains 1:1 Sulfuric Acid SA – 7093010 EXP: 04/03/18 Warning! See SDS

(Preservative Sticker(s) Here if available)

Notes: Lake Weir @ Center

Date: 08/08/2017
RQ-2017-08-07-34

G1CE0064
Field ID ↑
STORET ↓
G1CE0064

Signature: _____ Date: 8/8/17

Field Parameters Entered into LIMS: EMD 8/16/17 (Initials/Date) Field Parameters QC in LIMS: JR 8/23/17 (Initials/Date)

Date Migrated to STORET: EMD 11/14/17 (Initials/Date) Field Sheets Scanned/Saved: _____ (Initials/Date)

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: Lake Weir	County: Marion	Date: 8/8/17
Analyst: Jerry Fiorda / Mike Drennan	Signature:	STORET: 21FLCEO064

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 2, 5, 8, 11
3, 6, 9, 12

SPECIES	1	4	7	10	Collected? (√)	SPECIES	1	4	7	10	Collected? (√)
Acer rubrum	/	/	/	/		Fraxinus					
Alternanthera philoxeroides	/					Fuirena scirpoides	/	/	D	/	
Amaranthus australis	/	/	/	/		Gordonia lasianthus					
Andropogon sp.			/	/		Habenaria repens					
Azolla filiculoides (A. caroliniana)				/		Hibiscus coccineus					
Baccharis sp.		/	/	/		Hibiscus grandiflora					
Bacopa caroliniana		/	/			**Hydrilla verticillata**	/				
Bacopa monnieri						Hydrocotyle sp.	/	/	/	/	
Bidens alba						**Hygrophila polysperma**					
Bidens laevis						Hymenocallis sp.					
Bidens mitis						*Hypericum fasciculatum					
Blechnum serrulatum						*Hypericum hypericoides					
Boehmeria cylindrica						*Hypericum myrtifolium					
Brasenia schreberi						Ilex cassine					
Cabomba caroliniana						**Ipomoea aquatica**					
Canna						Ipomoea sagittata					
Centella asiatica	/	/				Itea virginica					
Cephalanthus occidentalis	/					Juncus effusus					
Ceratophyllum demersum LWD	X					*Juncus marginatus					
Chara sp.	/	/	/			*Juncus megacephalus					
Cicuta maculata			/			Juncus repens					
Cinnamomum campgora				/		*Juncus scirpoides					
Cladium jamaicense			/	/		Lachnanthes caroliniana	/	/	/	/	
Colocasia esculenta						Leersia hexandra					
*Commelina						**Landoltia punctata (Spirodela punctata)**					
Crinum americanum						Lemna sp.					
***Cyperus alternifolius (C. involucratus)**						Leucothoe racemosa (Eubotrys racemosa)					
Cyperus articulatus				/		Limnobium spongia					
Cyperus haspan	/	/		/		**Limnophila sessiliflora**					
*Cyperus lecontei						Liquidamber styraciflua	L	LWD	X	/	
*Cyperus polystachyos						*Ludwigia arcuata					
*Cyperus odoratus		/	/	/		*Ludwigia grandiflora					
*Cyperus surinamensis						*Ludwigia hexapetala					
Cyrilla racemiflora						*Ludwigia leptocarpa	/				
Decodon verticillatus						Ludwigia (native)					
Diodia virginiana						*Ludwigia octovalvis	/	/			
*Echinochloa crus-galli						***Ludwigia peruviana**	/	/		/	
*Echinochloa muricatum						*Ludwigia repens					
Echinochloa walteri						Ludwigia suffruticosa					
Eclipta prostrata (E. alba)						Luziola fluitans (Hydrochloa carolinensis)					
Eichhornia crassipes						Magnolia virginiana					
*Eleocharis						Mayaca fluviatilis					
Eleocharis cellulosa						**Melaleuca quinquenervia**		/			
*Eleocharis elongata						Micranthemum glomeratum					
Eleocharis equisetoides						Micranthemum umbrosum					
Eleocharis interstincta						Mikania scandens	/	/			
Eleocharis submersed viviparous			/			**Mimosa pigra**					
*Eriocaulon compressum						Myrica cerifera	/	/	/	/	
*Eriocaulon decangulare											
Eupatorium capillifolium	/	/	/	/							

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Site: Lake Weir

Date: 8/8/17

SPECIES	1	4	7	10	Collected? (√)
Myriophyllum aquaticum					
*Myriophyllum heterophyllum					
*Myriophyllum laxum					
*Myriophyllum pinnatum					
Myriophyllum spicatum					
*Najas filifolia					
*Najas guadalupensis			/		
*Najas minor					
Nelumbo lutea					
Nitella spp.			/		
Nuphar sp.	/		/		
Nymphaea mexicana			/		
Nymphaea odorata			/		
Nymphoides aquatica			/		
Nyssa sylvatica var. biflora					
Orontium aquaticum					
Osmunda cinnamomea					
Osmunda regalis					
Panicum hemitomon	/	/	/	/	
Panicum repens	/	/	/	/	
Paspalidium geminatum	/	/	/	/	
*Paspalum repens			/		
Paspalum urvillei					
Peltandra sp.					
Persea sp.					
Pennisetum purpureum					
Phragmites australis				/	
Pinus elliottii	/	/	/	/	
Pistia stratioides					
Pluchea sp.		/			
*Polygonum glabrum (densiflorum)					
Polygonum hirsutum					
*Polygonum hydropiperoides					
*Polygonum punctatum	/		/		
*Polygonum					
Pontederia cordata	/	/			
*Potamogeton diversifolius					
*Potamogeton illinoensis	D	/	/	D	
*Potamogeton pusillus					
*Potamogeton pectinatus (Stuckenia pectinatus)					
Proserpinaca pectinata					
*Rhexia					
*Rhynchospora corniculata					
*Rhynchospora inundata		/			
Rhynochospora nitens	/		/		
Ricciocarpus natans					
Sabal palmetto					
Sacciolepis striata					
*Sagittaria filiformis					
*Sagittaria graminea					
*Sagittaria isoetiformis					
Sagittaria lancifolia	/	/	/		
Sagittaria latifolia					

SPECIES	1	4	7	10	Collected? (√)
Salix caroliniana	/	/	/	/	
Salvinia minima					
Sambucus canadensis			/		
Sapium sebiferum					
Saururus cernuus					
Schinus terebinthifolius					
*Schoenoplectus californicus					
*Schoenoplectus pungens					
*Schoenoplectus tabernaemontani (Scirpus validus)					
Scirpus cubensis (Oxycaryon cubense)					
Scirpus cyperinus					
*Sesbania Punicea	/	/	/		
Solidago sp.					
Sparganium americanum					
Spartina bakeri					
Spirodela polyrhiza					
Taxodium sp.					
Thalia geniculata					
Thelypteris interrupta					
Thelypteris palustris					
Triadenum virginicum					
Typha sp.	/		/		
Urochloa mutica (Brachiaria mutica)	/				
*Utricularia gibba (U. biflora)	/	/	/	/	
*Utricularia foliosa					
*Utricularia inflata					
*Utricularia purpurea					
*Utricularia radiata					
*Utricularia resupinata		/	/	/	
Vallisneria americana					
Vitis sp.					
*Websteria confervoides					
Wedelia trilobata (Sphagneticola trilobata)					
Wolffiella spp.					
Woodwardia virginica					
Xyris sp.	/		/		
Zizania aquatica					
Zizaniopsis milacea					
Paspalum ~~wuelleiurvillei~~	/				
Erechtites hieracifolia	/	/	/	/	
Solidago sp.	/	/		/	
Sacharum gigantum		/		/	
Rhynchospora microcephala			/		/
Saccharum giganteum (correct spelling for above) VD					

* No dominant section 10

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: 77822 MACROPHYTE ID: 10586 LATITUDE: 29.016338
COUNTY: MARION STORET #: GICE0064 LONGITUDE: -81.93773
DATE: 8-8-17 TIME: 1132 SAMPLING AGENCY: 21 FLCEW
SITE NAME: LK WEIR @ Center WBID: 2790A
FIELD ID/NAME: GICE0064 LAKE SIZE: _____ RQ: 2017-08-07-34

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)
✓		✓	✓	✓	✓		

LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer) LDI: _____ Land Use Source & Year:

Local Watershed Erosion (select one) : ☐ None ☐ Slight ☑ Moderate ☐ Heavy

Local Watershed NPS Pollution : ☐ No evidence ☐ Slight ☑ Moderate ☐ Heavy

Artificially Impounded ☑ Yes ☐ No

STORMWATER INPUTS 8	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 5	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 6	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 / SUBSTRATE / BIOLOGICAL: SAMPLES AND OBSERVATIONS

Water:
Nutrient Sample Taken? ☑ Yes ☐ No Preserved? ☑ Yes ☑ pH<2 ☐ No
Color Sample Taken? ☑ Yes ☐ No Lot # SA7093010 Exp. Date: 4/3/18
Alkalinity Sample Taken? ☑ Yes ☐ No
Water 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)
Top:	0.3	29.8	7.6	8.8	116	271	0.1
Mid-Depth:							
Bottom :	5.5	29.6	7.5	7.9	104	271	0.1

Meter ID: _____

Clarity: ☐ Clear ☑ Opaque ☐ Turbid ☐ Slightly Turbid
Color: ☑ Clear ☐ Tannic ☐ Green

SECCHI (M) 1.7 VOB ☐ Total Station Depth (M) 6.0

Sediment Type: (may check more than one) Sample Taken? ☐ Yes ☐ No
☑ Sandy ☐ Organic fibrous (peaty, CPOM) ☑ Vegetated
☐ Sand/Silt ☐ Organic smooth (muck) ☐ 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

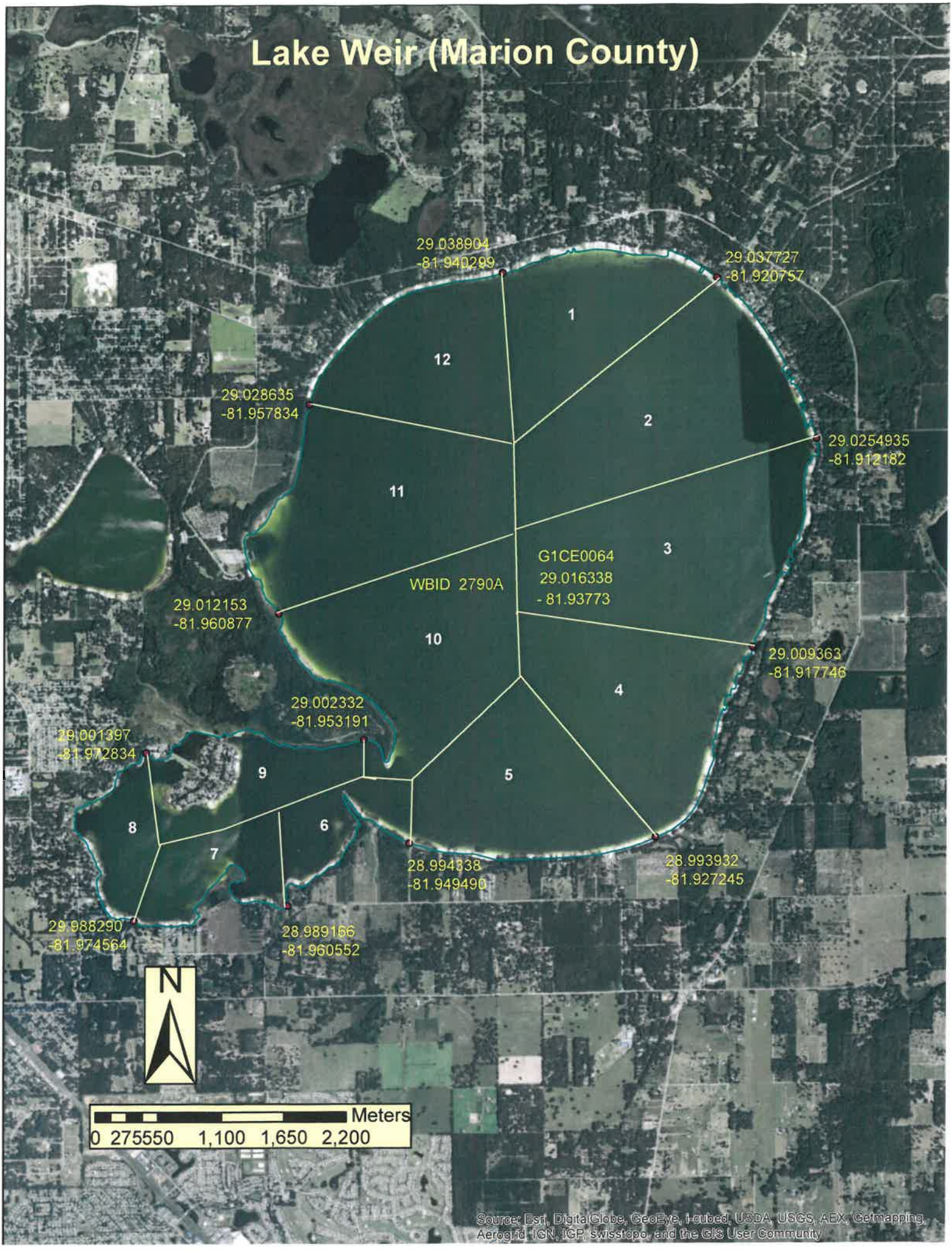
Abundance:

	Absent	Rare	Common	Abundant
Periphyton	☐	☐	☑	☐
Nuisance Plants	☐	☐	☑	☐
Submersed Plants	☐	☐	☐	☑
Exotic Apple Snails	☐	☑	☐	☐

Additional Notes:

Weather Conditions : 90% sunny

SAMPLING TEAM: Terry Riordan / Mike Brennan **SIGNATURE:** _____ **DATE:** 8-8-17


Lake Weir (Marion County)
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-81.940299
29.037727
-81.920757
1
12
29.028635
-81.957834
2
29.0254935
-81.912182
11
3
G1CE0064
29.016338
- 81.93773
WBID 2790A
29.012153
-81.960877
10
29.009363
-81.917746
4
29.002332
-81.953191
29.001397
-81.972834
9
5
8
6
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-81.949490
28.993932
-81.927245
29.988290
-81.974564
28.989166
-81.960552
N
Meters
0 275550 1,100 1,650 2,200
Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community