

LVI

Site Name Lake Condell Sample Date 7/29/20
WBID 3168X5 WIN ID G4CE0177 RQ 2020-07-27-50

	Initial/Date	QC Initial/Date
Water chemistry data to LIMS	KWM 8/20/20	TR 8/24/2020
Create SBIO station visit	KWM 9/14/20	n/a
Vascular Entry (add LIMS ID)	KWM 9/14/20	TR 9/16/2020
Lake Observation Sheet Entry	KWM 9/14/20	TR 9/16/2020
Authorize SBIO data	TR 9/16/2020	n/a
Scan all sheets to 21FLCEN folder	KWM 9/18/20	n/a
LIMS/WIN migration	KWM 9/14/20	n/a
File in cabinet		n/a

Comments/notes:



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2020

Meter Passed End

of Day CCV

Yes / No

WIN Station Name: Lake Condal @ Center

Date: 07/29/2020
(mm/dd/yyyy)

WIN/ Field ID: G4CE0177

WBID: 3168X5

Latitude: 28.5077

(Decimal Degrees)

County: Orange

ORG ID: 21FLCEN

Longitude: -81.3348

(Decimal Degrees)

Receiving Body of Water:

RQ-2020- 07-27-20

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Check
Leif Boman		✓		✓	✓
Victoria Schwartz	✓		✓		

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

Water Level: Dry/ Pooled/ Low / Normal / High / Flooded		Meter ID# Shrimp Trap	
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: 81436	HA-ID:	RPS-ID: Macrophyte-ID: 11712 LIMS#: 2187179
Notes: LVI			

Duplicate Sample

Time Zone: EST CEN	Time: N/A	Field ID: N/A	(WIN ID_DUP)
WIN DMT Activity ID: N/A			

Blank

Time Zone: EST CEN	Time: N/A	Field ID: N/A	(Blank Type_DDMMYYYY)
DI Source: N/A	Location: N/A	Equipment ID: N/A	
☐ Field Blank	☐ Equipment Blank	☐ Field Cleaned Equipment Blank	

LIMS EVENT ID: CEN-DIST-2020- 07-30-01	WIN Import ID: 21873
Enter Field Parameters, Verify Station ID in LIMS DMT: KWM 8/20/20	QC Station ID, Field Parameters in LIMS DMT: TR 8/24/2020
(Initials/Date)	(Initials/Date)
Scan/Save Field Sheets KWM 9/18/20	Migrate Data to WIN: KWM 9/14/20
(Initials/Date)	(Initials/Date)
Verify Data in WIN:	(Initials/Date)

RQ-2020- 07-27-50Customer: CEN-DISTProject ID: SMPCollected By: Leif Boman/Victoria SchwartzField Report Prepared By: Victoria SchwartzSampling Agency: FDEP CEN-ROCWIN ID / Field ID →
Lake Condel @ Center

G4CE0177

Comments:

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 (PPT)
7/29/20	10:23	3.77	48.8	28.8	7.06	0.307	0.5	1.1	172.1	0.08
	EST / CST						☐ VOB (S)			

Central Lab please use top row for login purposes

	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 Lot # <u>H2S04</u> LOT# SA9354050 EXP: 12/20/2020 Exp:	☒ Ice ☒ H2SO4*	☒ <2	1	B
Metals (P-500ML)	☒ W-ICPMS ☒ W-ICP ☒ W-HARD Lot # <u>HNO3</u> LOT# NA9301040 EXP: 10/28/2020 Exp:	☒ Ice ☒ HNO3*	☒ <2	1	B
Filtered Nutrients (P125ML)	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter Filter Lot # <u>16930280</u> Syringe Lot # <u>9149785</u>	☒ Ice		1	B
Chlorophyll (BP-1L)	☒ CHLSUITE-W	☒ Ice		1	B
Physical/Aggregate (Fresh) (P-1L)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CHC / W-COLOR / W-S04-IC / W-TDS	☒ Ice		1	B
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		1	B
Molecular (QPCR-P-500ML)	☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-DG3 ☐ PCR-GULL2 ☐ PCR-GFD ☐ See Notes	☐ Ice			
Tracers (BG-500ML)	☐ W-E8321-DI ☐ W-E8321-MS	☐ Ice			
Pesticides (BG-500ML) (BG-1L)	☐ W-E8321-DI ☐ W-E8321-MS ☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-PCL-SQ-R ☐ W-CARB-AA (5 ml of MCAA** Buffer Solution)	☐ Ice			

Name: Victoria SchwartzSignature: Victoria SchwartzDate: 7/29/20

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution

Waterbody: <u>Lake Condel</u>	County: <u>Orange</u>	Date: <u>7/29/20</u>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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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): <u>1, 4, 7, 10</u> 2, 5, 8, 11 3, 6, 9, 12																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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Site: Lake Condel					Date: 7/29/20						
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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 odorata						*Sesbania					
Nymphoides aquatica						Solidago sp.					
Nyssa sylvatica var. biflora						Sparganium americanum					
Orontium aquaticum						Spartina bakeri					
Osmunda cinnamomea						Spirodela polyrhiza					
Osmunda regalis						Taxodium sp.					
Panicum hemitomon						Thalia geniculata					
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 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 (Sphagneticola trilobata)					
*Polygonum						Wolffiella spp.					
Pontederia cordata						Woodwardia virginica					
*Potamogeton diversifolius						Xyris sp.					
*Potamogeton illinoensis						Zizania aquatica					
*Potamogeton pusillus						Zizaniopsis milacea					
*Potamogeton pectinatus (Stuckenia pectinatus)											
Proserpinaca pectinata											
*Rhexia											
*Rhynchospora corniculata											
*Rhynchospora inundata											
Rhynchospora tracyi											
Ricciocarpus natans											
Sabal palmetto											
Sacciolepis striata											
*Sagittaria filiformis											
*Sagittaria graminea											
*Sagittaria isoetiformis											
Sagittaria lancifolia											

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: _____ MACROPHYTE ID: _____ LATITUDE: 28.5077
 COUNTY: Orange STORET #: _____ LONGITUDE: -81.3348
 DATE: 7/29/20 TIME: _____ SAMPLING AGENCY: 21FLCEN
 SITE NAME: Lake Condel @ Center WBID: 3168X5
 FIELD ID/NAME: G4CE0177 LAKE SIZE: 0.01 ha RQ: 2020-07-27-SO

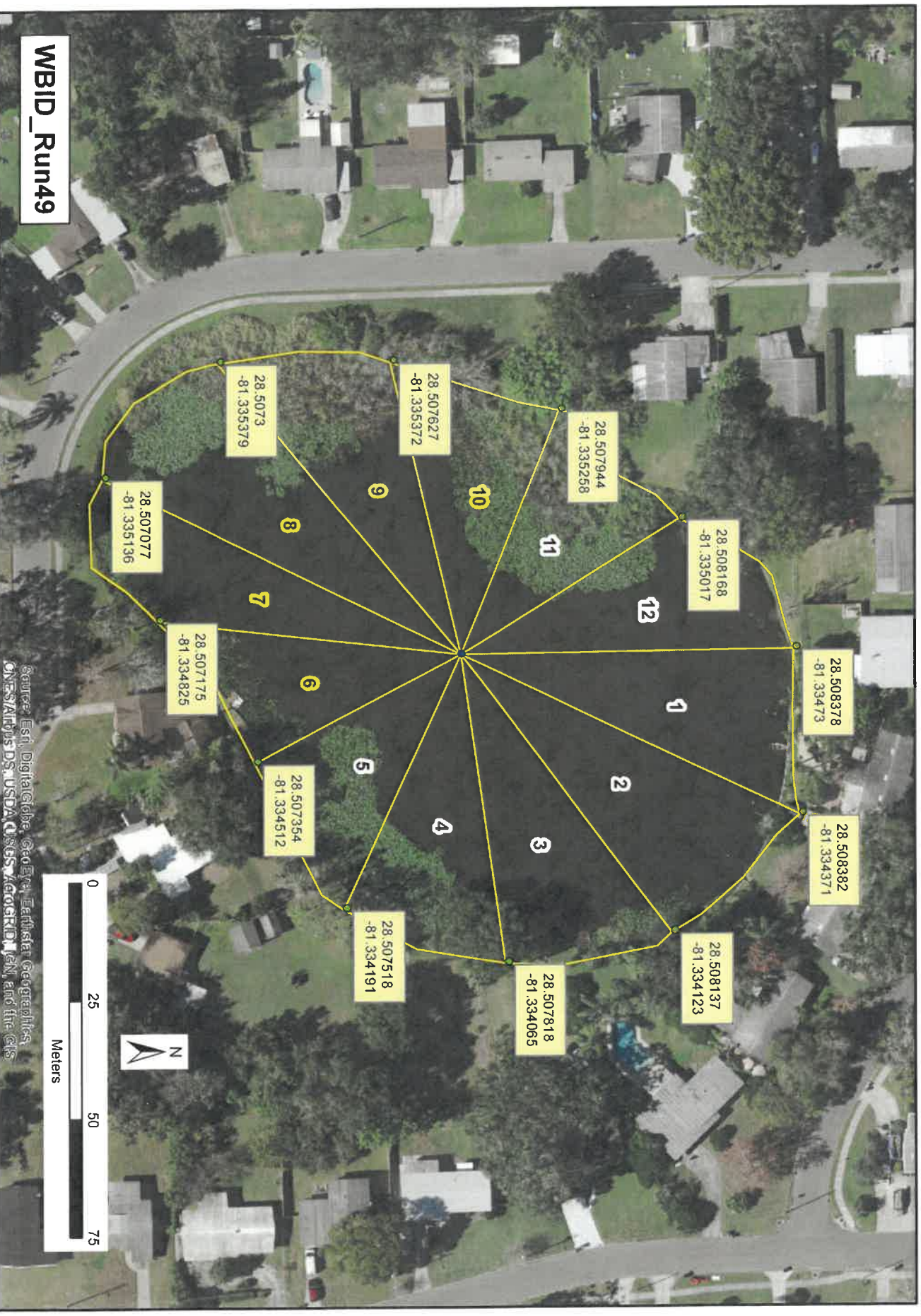
WATERSHED / LAKESIDE FEATURES

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)							
<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>100</u>	<u>0</u>	<u>0</u>	<u>0</u>							
Local Watershed Erosion (select one) : ☐ None ☒ Slight ☐ Moderate ☐ Heavy								Artificially Impounded			LDI: <u> </u>			
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>7</u>		20 19 18 17 16			15 14 13 12 11			10 9 8 <u>7</u> 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>7</u>		20 19 18 17 16			15 14 13 12 11			10 9 8 <u>7</u> 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>6</u>		20 19 18 17 16			15 14 13 12 11			10 9 8 7 <u>6</u>			5 4 3 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>SA9354050</u> Exp. Date: <u>12/20/20</u> 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: <u>0.307</u> <u>28.8</u> <u>7.06</u> <u>3.77</u> <u>48.8</u> <u>172.1</u> <u>0.08</u> Mid-Depth: <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> Bottom: <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u>						Clarity: ☐ Clear ☐ Turbid ☒ Slightly Turbid Color: ☐ Clear ☒ Tannic ☐ Green SECCHI (M) <u>0.5</u> Total Station Depth (M) <u>1.1</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 #: <u>N/A</u> Exp Date: <u>N/A</u> Algal Bloom/Algal ID Sample Taken? Yes ☐ No ☒ 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>Overcast/light rain</u>											
SAMPLING TEAM: <u>Leif Boman/Victoria Schwartz</u>						SIGNATURE: <u>[Signature]</u>			DATE: <u>7/29/20</u>		

LVI Map for Lake Condell, WBID 3168X5



WBID_Run49