



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

March 2017

PAGE 1 OF 1

Data Qualified?
Yes / No

Location/STORET Station Name: WYNDHAM LAKE

Date: 08/28/2017
(mm/dd/yyyy)

STORET # G1SW0079

WBID: 1474C

Latitude: 28.17643333

(Decimal Degrees)

County: Pasco

RQ - 2017-08-07-42

ORG ID: 21FLTPA

Longitude: -82.58871944

(Decimal Degrees)

Receiving Body of Water:

Field ID: G1SW0079

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Curtis Masson			X	X	X	
Jason Storrs		X		X		

Sampling Equipment		
☒ Sample Container	☐ Van Dorn	☐ Pole
☐ Carboy	☒ Syringe	
☐ Dipper	☐ Other	
Equipment ID		

Collection Method	
☐ Wading	☒ Via Boat
☐ From Shore	☒ Canoe/Kayak
☐ Other (note below)	☐ Electric Motor
	☐ Gasoline Motor

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

Matrix: Fresh / Marine / DI

Meter ID# Biology #2

Photos: Yes / No

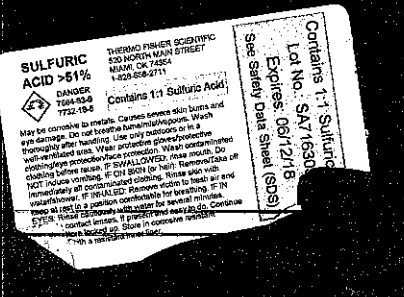
Tide Falling: Yes / No / NA

Time Zone	Time	Sample Depth (m)	Total Depth (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (ppt)	Secchi Disk (m)	Sp COND (umhos/cm)	Temp. (C°)
EST	1530	0.5	5.5	6.72	91.0	7.67	0.08	2.8	174	31.29
CEN	1528	5.0		5.90	79.6	7.58	0.08		176	31.17

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

SBIO ID Numbers: SBIO-ID: 77944 RPS-ID: Macrophyte-ID: 10731 LIMS#: 1926053

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 ☒ H2SO4	SA 7163030	6/12/2018	☐ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3			☐ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 um Filter	☒ Ice			
Chlorophyll	☒ CHLSUITE-W	☒ Ice			
Physical/Aggregate (Fresh)	☐ Alkalinity / W-F / W-TSS / TURBIDITY / W-CH-IC / W-COLOR / W-SO4-IC / W-TDS	☐ Ice			
Physical/Aggregate (Marine)	☐ Alkalinity / W-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates	☐ MI-FW-QDC	☐ Formalin			
Periphyton	☐ ALGAE-ID	☐ Ice			
Microbiology	☐ E Coll ☐ F Coll ☐ 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			



Notes:
Univ. Properties, Angela Hester 813-980-1000.
Can get in at end of cul-de-sac on Brookview-between houses.
Kit A, LVI

STORET →
Field ID →
Wyndham
Lake Center
G1SW0079

Signature:

Date: 8/28/2017

Field Parameters Entered into LIMS: SM 09/25/2017 & Biology
(Initials/Date)

Field Parameters QC in LIMS:
(Initials/Date)

Date Migrated to STORET:
(Initials/Date)

Field Sheets Scanned/Saved: SM 09/26/2017
(Initials/Date)

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

STORET STATION NUMBER: G1SW0079	DATE (M/D/Y) 08/28/2017	LAKE NAME WYNDHAM LAKE		FIELD ID / NAME: G1SW0079
ECO-REGION: Southwestern Florida Flatwoods	COUNTY: Pasco	SAMPLING LOCATION/DESCRIPTION: WYNDHAM LAKE Center		LAKE SIZE: 10.1 Acre
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 15	Secchi >3 m Secchi(m) Or VOB 20 19 18 17 16	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 10	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 13	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 19	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 3	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 2	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 6	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	68	COMMENTS:
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ANALYSIS DATE: 08/28/2017	ANALYST: Curtis Musson & Jason Storrs	SIGNATURE:
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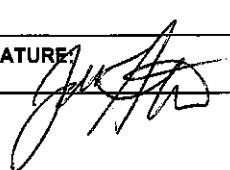
DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: 77944 MACROPHYTE ID: 10731 LATITUDE: 28.17643333
 COUNTY: Pasco STORET #: G1SW0079 LONGITUDE: -82.58871944
 DATE: 8/28/2017 TIME: 1530 SAMPLING AGENCY: FDEP
 SITE NAME: WYNDHAM LAKE Center WBID: 1474C
 FIELD ID/NAME: G1SW0079 LAKE SIZE: 10.1 Acre RQ: 2017-08-07-42

WATERSHED / LAKESIDE FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category – from GIS) : Forest/Natural ☐ Silviculture ☐ Field/Pasture ☐ Agricultural ☒ 25 Residential ☒ 75 Commercial ☐ Industrial ☐ Other (Specify) ☐						LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer) LDI:			
Local Watershed Erosion (select one) : ☐ None ☐ Slight ☐ Moderate ☐ Heavy Local Watershed NPS Pollution : ☐ No evidence ☐ Slight ☐ Moderate ☐ Heavy						Artificially Impounded ☐ Yes ☐ No Land Use Source & Year:			
STORMWATER INPUTS <u>13</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 <u>13</u> 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 <u>3</u> 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 <u>2</u> 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>597163030</u> Exp. Date: <u>06/12/2018</u> Alkalinity Sample Taken? ☒ Yes ☐ No 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>0.5</u> <u>31.29</u> <u>7.67</u> <u>6.72</u> <u>91.0</u> <u>174</u> <u>0.08</u> Mid-Depth: Bottom: <u>5.0</u> <u>31.17</u> <u>7.58</u> <u>5.90</u> <u>79.6</u> <u>176</u> <u>0.08</u>						Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other					
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 Color: ☒ Tannic ☐ Clear ☐ Green					
Sample Taken? ☐ Yes ☒ No Sediment Odors: ☒ Normal ☐ Other (Specify): ☐ Anaerobic						SECCHI (M) <u>2.8</u> Total Station Depth (M) <u>5.5</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: Absent Rare Common Abundant Periphyton ☐ ☐ ☒ ☐ Nuisance Plants ☐ ☐ ☒ ☐ Submersed Plants ☐ ☐ ☐ ☒ Exotic Apple Snails ☒ ☐ ☐ ☐					
Additional Notes:											
Weather Conditions: <u>Overcast, rainy</u>											
SAMPLING TEAM: <u>Musson, Sporis</u>						SIGNATURE: 			DATE: <u>8/28/2017</u>		

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: WYNDHAM LAKE					County: Pasco					Date: 8/28/17				
Analyst: Curtis Musson, Jason Starrs					Signature:					STORET: G1SW0079				
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	1	4	7	10	Collected? (v)	SPECIES	1	4	7	10	Collected? (v)			
Acer rubrum						Habenaria repens	X							
Alternanthera philoxeroides	X		X			Hydrilla verticillata								
Andropogon sp.				X		Hydrocotyle sp.	X	X						
Azolla filiculoides (A. caroliniana)						Hrdolea quadrivalis								
Baccharis sp.						Hygrophila polysperma								
Bacopa caroliniana	X			X		*Hypericum fasciculatum								
Bacopa monnieri						*Hypericum hypericoides								
Bidens laevis						*Hypericum myrtifolium								
Bidens mitis						Ilex cassine								
Blechnum serrulatum						Ipomoea aquatica								
Boehmeria cylindrica	X					Ipomoea sagittata								
Brasenia schreberi						Iris pseudacorus								
Cabomba caroliniana						Itea virginica								
Casuarina equisetifolia						Juncus effusus								
Centella asiatica						*Juncus marginatus								
Cephalanthus occidentalis	X			X		*Juncus megacephalus								
Ceratophyllum demersum						Juncus repens								
Chara sp.						*Juncus scirpoides								
Cladium jamaicense						Lachnanthes caroliniana								
Cliftonia monophylla						Leersia hexandra	X	X	X	X				
Colocasia esculenta						Landoltia punctata (Spirodela punctata)								
*Commelina						Lemna sp.								
Crinum americanum						Leucothoe racemosa (Eubotrys racemosa)								
* Cyperus alternifolius (C. involucratus)						Limnium spongia								
Cyperus articulatus						Limnophila sessiliflora								
Cyperus haspan						Liquidamber styraciflua								
*Cyperus lecontei						*Ludwigia arcuata								
*Cyperus polystachyos						*Ludwigia leptocarpa								
*Cyperus odoratus	X	X	X	X		*Ludwigia linearis								
*Cyperus surinamensis						*Ludwigia octovalvis	X	X	X	X				
Cyrilla racemiflora						* Ludwigia peruviana	X	X		X				
Decodon verticillatus						*Ludwigia repens								
Diodia virginiana						*Ludwigia <i>grandiflora</i>		X	X	X				
*Echinochloa crus-galli						Luziola fluitans (Hydrochloa carolinensis)								
*Echinochloa muricatum						Lycopus virginicus	X			X				
Echinochloa walteri						Lyonia lucida								
Eclipta prostrata (E. alba)						Magnolia virginiana								
Egeria densa						Mayaca fluviatilis								
Eichhornia crassipes						Melaleuca quinquenervia								
*Eleocharis baldwinii				X		Micranthemum glomeratum								
*Eleocharis						Micranthemum umbrosum								
Eleocharis cellulosa						Mikania scandens	X	X	X	X				
Eleocharis equisetoides						Mimosa pigra								
Eleocharis interstincta						Myrica cerifera				X				
*Eriocaulon compressum														
*Eriocaulon decangulare														
Eupatorium capillifolium	X	X												
*Fuirena														
Fuirena scirpoidea														
Gordonia lasianthus														

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Site: WYNDHAM LAKE, Pasco County						Date:					
SPECIES	1	4	7	10	Collected? (✓)	SPECIES	1	4	7	10	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	D	D	D	D		*Schoenoplectus californicus					
*Najas minor						*Schoenoplectus pungens					
Nelumbo lutea						*Schoenoplectus tabernaemontani (Scirpus validus)					
Nitella spp.						Scirpus cubensis (Oxycaryon cubense)					
Nuphar sp.	X	X		X		Scirpus cyperinus					
Nymphaea odorata	X	X				*Sesbania					
Nymphoides aquatica						Solidago sp.					
Nyssa sylvatica var. biflora						Sparganium americanum					
Orontium aquaticum						Spartina bakeri					
Osmunda cinnamomea						Spirodela polyrhiza					
Osmunda regalis						Taxodium sp.		X	X		
Panicum hemitomon			X			Thalia geniculata					
Panicum repens	X					Thelypteris palustris					
Paspalidium geminatum						Triadenum virginicum					
*Paspalum repens						Typha sp.		X	X	X	X
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.	X					*Utricularia radiata					
*Polygonum glabrum (densiflorum)						Vallisneria americana					
*Polygonum hydropiperoides	X		X			*Websteria confervoides					
*Polygonum punctatum						Wedelia trilobata (Sphagneticola trilobata)					
*Polygonum						Wolffiella spp.					
Pontederia cordata	X			X		Woodwardia virginica					
*Potamogeton diversifolius						Xyris sp.		X			
*Potamogeton illinoensis						Zizania aquatica					
*Potamogeton pusillus						Zizaniopsis milacea					
*Potamogeton pectinatus (Stuckenia pectinatus)											
Proserpinaca pectinata											
*Rhexia											
*Rhynchospora corniculata		X									
*Rhynchospora inundata											
Rhynchospora tracyi											
Ricciocarpus natans											
Sabal palmetto											
Sacciolepis striata											
*Sagittaria filiformis											
*Sagittaria graminea											
*Sagittaria isoetiformis											
Sagittaria lancifolia											
Sagittaria latifolia											

WBID 1474C Wyndham Lake

28.1775N, 82.589W

28.1777N, 82.5884W

28.1776N, 82.5878W

28.1772N, 82.5874W

28.1771N, 82.5894W

28.1767N, 82.5874W

28.1766N, 82.5895W

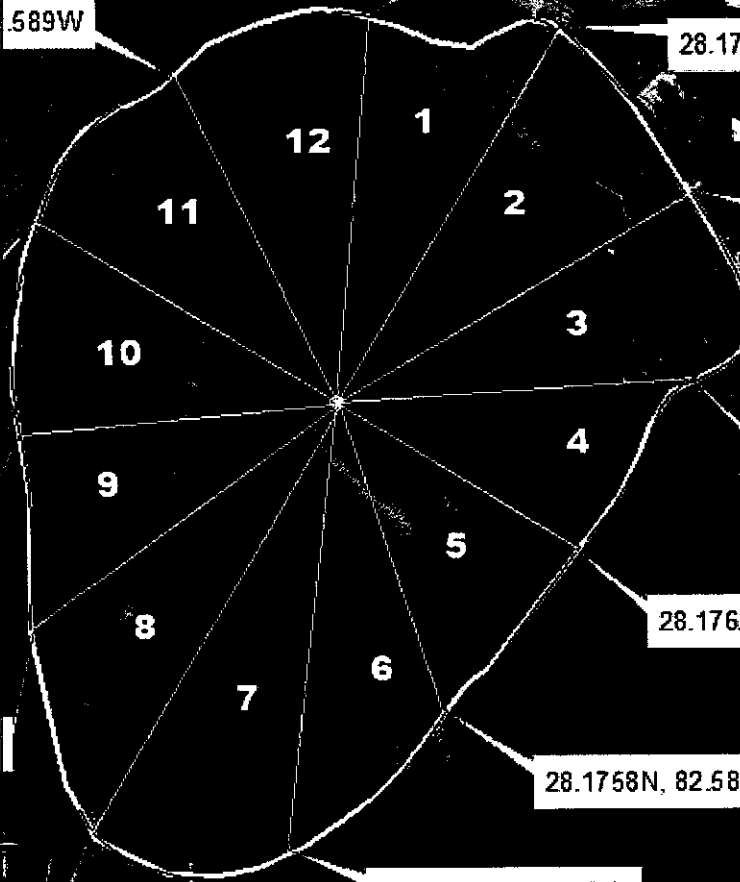
28.1762N, 82.5878W

28.176N, 82.5895W

28.1758N, 82.5882W

28.1755N, 82.5893W

28.1754N, 82.5887W



Request Number: RQ-2017-08-07-42 Tampa Lakes Team 1 Customer: WQ-ASSESS Project ID: SMP		FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION Central Lab Sample Submittal Form						Page <u> </u> of <u> </u> Requester: Curtis Musson Field Report Prepared By: <u>Curtis Musson</u> Collected By: <u>Curtis Musson</u> Sampling Agency: FDEP							
Location Field ID Black Lake Center STORET #		Matrix (Salt, Fresh) Fresh		Diss. Oxygen (mg/L) 6.44		Temp (C) 30.61		pH 7.01		Sample Depts (m) 0.3		Sp. Conductance (umho/cm) 97		A	
		Salinity (ppt) 0.04		Comments LVI											
STORET #		Latitude (Decimal Degrees) 28.19073889				Longitude (Decimal Degrees) -82.57661389									
STORET #		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 8-28-17 Time 1340		☒ Eastern ☐ Central		Collection (comp begin or grab) Date <u> </u> Time <u> </u>		Bottle Group(s)					
Location Field ID Wyndham Lake Center STORET #		Matrix (Salt, Fresh) Fresh		Diss. Oxygen (mg/L) 6.72		Temp (C) 31.29		pH 7.67		Sample Depts (m) 0.3		Sp. Conductance (umho/cm) 174		A	
		Salinity (ppt) 0.08		Comments LVI											
STORET #		Latitude (Decimal Degrees)				Longitude (Decimal Degrees)									
STORET #		☐ Comp ☒ Grab		Collection (comp begin or grab) Date <u> </u> Time <u> </u>		☒ Eastern ☐ Central		Collection (comp begin or grab) Date <u> </u> Time <u> </u>		Bottle Group(s)					
Location Field ID STORET #		Matrix (Salt, Fresh)		Diss. Oxygen (mg/L)		Temp (C)		pH		Sample Depts (m)		Sp. Conductance (umho/cm)			
STORET #		Salinity (ppt)		Comments											
STORET #		Latitude (Decimal Degrees)				Longitude (Decimal Degrees)									
STORET #		☐ Comp ☐ Grab		Collection (comp begin or grab) Date <u> </u> Time <u> </u>		☐ Eastern ☐ Central		Collection (comp begin or grab) Date <u> </u> Time <u> </u>		Bottle Group(s)					
Relinquished By: <u>Curtis Musson</u>		Date/Time 8/28/17/1650		Number of Coolers 1		Received By:		Date/Time							

Group: A	Bottle Type: ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS	P-1L	# of Bottles: 2	Preservative: ICE	Enter Number of Bottles Sent to Lab <u>2</u>
Group: A	Bottle Type: CHLSUITE-W	BP-1L	# of Bottles: 2	Preservative: ICE	Enter Number of Bottles Sent to Lab <u>2</u>
Group: A	Bottle Type: W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC	P-500ML	# of Bottles: 2	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab <u>2</u>
Group: A	Bottle Type: W-PO4-F	P-125ML	# of Bottles: 2	Preservative: ICE-FLTR	Enter Number of Bottles Sent to Lab <u>2</u>