



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

STRATEGIC MONITORING PLAN Field Sheet

July 2022

Meter
Passed End
of Day CCV

Yes ☒ No ☐

WIN Station Name:		CENTER OF WRIGHT BASIN				Sample Date:		6/27/2023	
WIN / Field ID:	G4NW0028	ORG ID:	21FLPNS	ENR:	-	Latitude:	30.63733		
County:	SANTA ROSA	WBID:	24AD	LAKE		Longitude:	-87.00781		
Receiving Body of Water:		Blackwater River				RQ-	2023-06-26-13		

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Frank Butera	x		x		
Hannah Henning		x		x	x

Sampling Equipment			
x	Sample Container		Carboy
	Dipper		Van Dorn
x	Syringe		Pole
Syringe Lot# 1363514		Filter Lot# 17460495	
Secchi Equipment ID:		Aerial	
Collection Method			
	Wading		Canoe/Kayak
	From Shore		Electric Motor
		x	Gasoline Motor
Depth Measured With		Meter	

Water Level:	Normal
Flow:	NA
Matrix:	Fresh
Tide Stage:	
High Tide:	
Low Tide:	
Photos:	Yes
Meter ID:	155077 (ProDSS)
Depth Gauge ID:	depth_gauge

Time Zone	Time	Total Depth (m)	Sample Depth (m)	DO (mg/L)	DO (%SAT)	Temp. (°C)	pH	Secchi Disk (m)	Sp COND (µmhos/cm)	Salinity (PPTth)
CEN	1020	1.7	0.3	7.24	95.7	30	5.88	0.6	232	0.11
	1030		1.2	4.98	63.4	27.8	5.65		248.3	0.12

Biological Samples Collected:

HA LVI

SBIO Visit ID: 87134

HA ID:18545

RPS ID: N/A

Macrophyte ID: 12483

LIMS Sample ID

In The Macrophyte Module: 2420171

Parameter Suite	Parameter Methods (LIMS Test Codes)			Preservation				
				Type	Lot#	Expiration Date	pH Check	
Microbiology								
Chlorophyll	CHLSUITE-W			ICE				
Physical/Aggregate Nutrients	ALKALINITY, TURBIDITY, W-F, W-TSS W-CL-IC, W-COLOR, W-SO4-IC, W-TDS			ICE				
Filtered Nutrients	W-PO4-F	Field Filtered 0.45 µm Filter		ICE	Syring Lot#:1363514; Filter Lot#:17460495			
Acid Preserved Nutrients	W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP			ICE	H2SO4*	SA3013020	12/25/2024	H2SO4 pH<2
Metals	W-ICPMS	W-ICP	W-HARD	ICE	HNO3**	NA2230040	09/01/2023	HNO3 pH<2
Organics (LC)	W-E8321-DI	W-E8321-MS						
Macroinvertebrates								
Organics (GC)	W-PSNP-TQ	W-TR-SQ-R		Ice	*2.0 ml of H2SO4 Used Unless Noted Otherwise **2.0 ml of HNO3 Used Unless Noted Otherwise			
Molecular								
Periphyton								
Phytoplankton								
BOD								
DOC								
Other(s)					SyringLot#		FilterLot#	
Field Comments:	HOT, 115 predicted heat index.							
Comments on COC:								
Relinquish Date:	06/27/2023	Signature:						

LIMS EVENT ID: _____ WIN Import ID: _____

Enter Field Parameters, Verify Station ID In LIMS DMT: _____

(Initials/Date)

QC Station ID, Field Parameters In LIMS DMT: _____

(Initials/Date)

Save Field Sheets on Network: _____

(Initials/Date)

Migrate Data to WIN: _____

(Initials/Date)

Site Name Center of Wright Basin

Date: 06/27/2023

WIN-ID G4NW0028

Field ID G4NW0028

Project: SMP/TMDL Studies

Visit ID 87134

RQ: 2023-06-26-13

Macro ID 12483

LIMS ID: 2420171

HA ID 18545

WBID: 24AD

☒ LVI

☒ Sample Site Created in SBIO

☒ Phys/Chem in SBIO

Initial/Date FB

☒ Date and Initial QA: SS

☒ HA entered in SBIO

Initial FB

☒ Date and Initial QA: SS HA Score 73

☒ LVI entered in SBIO

Initial FB

☒ Date and Initial QA: SS

☒ Plants getting verified

☒ Date submitted: TLH 06/27/2023

☒ Plants verified

☒ Date returned: 6/27/2023

☒ Macro ID authorized in SBIO

☒ Date and Initial: 8/15/23, FB

☒ Macro ID score: 84

☒ If SMP, scanned into database

Notes:

SAMPLE ID: 87134 MACROPHYTE ID: 1248 LATITUDE: N 30.63733
 COUNTY: Santa Rosa (Milton) STORET #: G4NW0028 LONGITUDE: W -87.00781
 DATE: 6/27/2023 TIME: 10:20 SAMPLING AGENCY: FL DEP - NWROC
 SITE NAME: Center of Wright Basin WBID: 24AD
 FIELD ID/NAME: G4NW0028 LAKE SIZE: 161 Acres RQ: 2023-06-26-13
WATERSHED / LAKESIDE FEATURES LIMS ID: 2420171

LIMS ID: 2420171

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)		LDI: N/A					
X								X													
Local Watershed Erosion (select one) : ☐ None ☐ Slight ☒ Moderate ☐ Heavy													Artificially Impounded								
Local Watershed NPS Pollution : ☐ No evidence ☐ Slight ☒ Moderate ☐ Heavy													☐ Yes ☒ No								
STORMWATER INPUTS 9		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				
		2019181716					1514131211					109876					54321				
LAKESIDE ALTERATIONS 12		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)				
		2019181716					1514131211					109876					54321				
BUFFER ZONE 12		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				
		2019181716					1514131211					109876					54321				

Water: Nutrient Sample Taken? ☒ Yes ☐ No Preserved? ☒ Yes ☒ pH<2 ☐ No Color Sample Taken? ☒ Yes ☐ No Lot # <u>SA3013020</u> Exp. Date: <u>01/25/2024</u> Alkalinity Sample Taken? ☒ Yes ☐ No Water Level ☐ Low ☐ Normal ☒ High		Water Odors: ☒ Normal ☐ Sewage ☐ Petroleum ☐ Other _____																																	
Meter Readings: <table border="1" style="width: 100%; text-align: center;"> <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>30.0</td> <td>5.88</td> <td>7.24</td> <td>95.7</td> <td>232</td> <td>0.11</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>1.2</td> <td>27.8</td> <td>5.65</td> <td>4.98</td> <td>63.4</td> <td>248.3</td> <td>0.12</td> </tr> </tbody> </table> Meter ID: <u>156077715077</u>			Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat. (%)	Cond. (UMHO/CM)	Salinity (PPT)	Top:	0.3	30.0	5.88	7.24	95.7	232	0.11	Mid-Depth:								Bottom:	1.2	27.8	5.65	4.98	63.4	248.3	0.12	Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other _____ Clarity: ☐ Clear ☐ Opaque ☐ Turbid ☒ Slightly Turbid Color: ☐ Clear ☒ Tannic ☐ Green SECCHI (M) <u>0.6</u> Total Station Depth (M) <u>1.7</u> VOB ☐	
	Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat. (%)	Cond. (UMHO/CM)	Salinity (PPT)																												
Top:	0.3	30.0	5.88	7.24	95.7	232	0.11																												
Mid-Depth:																																			
Bottom:	1.2	27.8	5.65	4.98	63.4	248.3	0.12																												
Sediment Type: (may check more than one) ☐ 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: <table border="1" style="width: 100%; text-align: center;"> <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	☒	☐	☐	☐							
	Absent	Rare	Common	Abundant																															
Periphyton	☐	☐	☒	☐																															
Nuisance Plants	☐	☐	☒	☐																															
Submersed Plants	☐	☐	☐	☒																															
Exotic Apple Snails	☒	☐	☐	☐																															
Weather Conditions: <u>Sunny, Hot, Damp 11:00 PM Predicted High Index 11.5°F!</u>		Additional Notes: <u>Turned down</u>																																	
SAMPLING TEAM: Frank Butera, Hannah Henning		SIGNATURE: <u>[Signature]</u> DATE: <u>6/27/2023</u>																																	

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

STORET STATION NUMBER: G3NW0028	DATE (M/D/Y) 6/27/23	LAKE NAME Center of Wright Basin		FIELD ID / NAME G3NW0028	
WBID: 24AD	COUNTY: Santa Rosa	SAMPLING LOCATION/DESCRIPTION: <i>Upstream of Russel Harbor - Boat Ramp</i>		LAKE SIZE: 161	
PARAMETER HYDROLOGY	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 ☐	
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	
Secchi	Secchi > 3 m Or VOB	Secchi(m)		Secchi(m)	
	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1	
Vegetation Quality	Diverse, expected native vegetation (emergent or submersed), less than 5% nuisance taxa 13	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)	
Stormwater Inputs	Stormwater enters system via sheet flow over non-cultivated and/or natural vegetation 9	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	
Bottom Substrate Quality	Diverse mixture of sand, detritus, with small amounts of CPOM/mud/muck. SAV may be present 5	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	
Lakeside Adverse Human Alterations	Very few man-made structures, roads, or other disturbance adjacent to lake (<10%) 12	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)	
Upland Buffer Zone	Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18 m buffer 12	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	
Adverse Watershed Land Use	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 16				
TOTAL SCORE	73	COMMENTS:			

ANALYSIS DATE: 6/27/23	ANALYST: Frank Butera	SIGNATURE: <i>[Signature]</i>
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SBIO Sample ID: 87134 HA ID: 1248 QC✓:

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: Center of Wright Basin					County: Santa Rosa					Date: 6/27/2022				
Analyst: F. Butera					Signature: <i>[Signature]</i>					STORET: G4NW0028				
Except where noted as "sp." species level identification required. *Genera that may require lab verification*										Lake units sampled (circle one group):				
Plants in bold = FLEPPC invasive exotic.										1, 4, 7, 10 2, 5, 8, 11				
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.										3, 6, 9, 12				
SBIO ID 87134	1	4	7	10	Collect ed? (✓)	Macro ID 12483	1	4	7	10	Collect ed? (✓)			
SPECIES						SPECIES								
Acer rubrum						Habenaria repens								
Alternanthera philoxeroides						Hydrilla verticillata								
Andropogon sp.						Hydrocotyle sp.								
Azolla filiculoides (A. caroliniana)						Hygrophila polysperma								
Baccharis sp.						*Hypericum fasciculatum								
Bacopa caroliniana						*Hypericum hypericoides								
Bacopa monnieri						*Hypericum multiflorum <i>brachy</i>								
Bidens laevis						Ilex cassine								
Bidens mitis						Ipomoea aquatica								
Blechnum serrulatum						Ipomoea sagittata								
Boehmeria cylindrica						Itea virginica								
Brasenia schreberi						Juncus effusus								
Cabomba caroliniana						*Juncus marginatus								
Casuarina equisetifolia						*Juncus megacephalus								
Centella asiatica						Juncus repens								
Cephalanthus occidentalis						*Juncus scirpoides								
Ceratophyllum demersum						Lachnanthes caroliniana								
Chara sp.						Leersia hexandra								
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								
Cyrtilla racemiflora						*Ludwigia								
Decodon verticillatus						Luziola fluitans (H. carolinensis)								
Diodia virginiana						Lyonia lucida								
*Echinochloa crus-galli						Magnolia virginiana								
*Echinochloa muricatum						Mayaca fluviatilis								
Echinochloa walteri						Melaleuca quinquenervia								
Eclipta prostrata (E. alba)						Micranthemum glomeratum								
Egeria densa						Micranthemum umbrosum								
Eichhornia crassipes						Mikania scandens								
*Eleocharis baldwinii						Mimosa pigra								
*Eleocharis <i>swamp</i>						Myrica cerifera								
Eleocharis cellulosa						NOT PLANT								
Eleocharis equisetoides						<i>Lythrum</i>								
Eleocharis interstincta						<i>Lythrum benzoin</i>								
*Eriocaulon compressum						<i>Amorpha</i>								
*Eriocaulon decangulare						<i>Baccharis</i>								
Eupatorium capillifolium						<i>Lilaeopsis</i>								
*Fuirena														
Fuirena scirpoidea														
Gordonia lasianthus														
LIMS ID: 2420171														

Serly Sea Wall

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Waterbody: Center of Wright Basin		STORET: G4NW0028		Date: 6/27/23		SBIO ID 87134		Macro ID 12483			
SPECIES	1	4	7	10	Collect ed? (✓)	SPECIES	1	4	7	10	Collect ed? (✓)
Myriophyllum aquaticum						Salix caroliniana					
*Myriophyllum heterophyllum	1		1	0		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	1	1	1	1		*Sesbania					
Nymphoides aquatica	1					Solidago sp.					
Nyssa sylvatica var. biflora						Sparganium americanum					
Orontium aquaticum						Spartina bakeri					
Osmunda cinnamomea						Spirodela polyrhiza					
Osmunda regalis	1		1			Taxodium sp.	1	1	1	1	
Panicum hemitomon	1	1	1			Thalia geniculata					
Panicum repens	1	1				Thelypteris palustris					
Paspalidium geminatum						Triadenum virginicum					
*Paspalum repens						Typha sp.					
Paspalum urvillei			+			Urochloa mutica (Brachiaria mutica)					
Peltandra sp.			1			*Utricularia gibba (U. biflora)					
Persea sp.						*Utricularia floridana	1	1	1		
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	1	1	1	1		Woodwardia virginica					
*Potamogeton diversifolius						Xyris sp.					
*Potamogeton illinoensis						Zizania aquatica					
*Potamogeton pusillus						Zizaniopsis milacea					
*Potamogeton pectinatus (Stuck. pectinatus)						<i>Alve</i>	1	1	1	1	
Proserpinaca pectinata						<i>Rhynchospora</i>					
*Rhexia						<i>Guz</i>					
*Rhynchospora corniculata											
*Rhynchospora inundata											
Rhynchospora tracyi											
Ricciocarpus natans											
Sabal palmetto											
Sacciolepis striata											
*Sagittaria filiformis											
*Sagittaria graminea											
*Sagittaria isoetiformis											
Sagittaria lancifolia			1								
Sagittaria latifolia											
<i>Oxypolis filiformis</i>											
<i>Sclerolepis uniflora</i>	1	1	1	1	✓						
<i>Paspalum submont</i>											
						*Schoenoplectus tabernaemontani = Scirpus validus					

Station: Center of Wright Basin
 GPS Dec. 30.63733 x -87.00781
 Storet: G4NW0028 WBID 24AD
 Sample ID: 87134 Vascular ID: 12483
 RQ-2023-06-26-13

Sampled : 06/27/2023
 Sampled By: F.Butera, H. Henning
 Location: Milton, Santa Rosa County
 Receiving Waters: Blackwater River
 LIMS ID: 2420171

	Taxa	1	4	7	10	Coll.	Verified
1	<i>Bacopa caroliniana</i>	C	1	1	1		
2	<i>Chamaecyparis thyoides</i>	1	1	1			
3	<i>Cladium jamaicense</i>	1	1	1	1		
4	<i>Cliftonia monophylla</i>	1		1	1		
5	<i>Colocasia esculenta</i>		1	1			
6	<i>Crinum americanum</i>			1			
7	<i>Cyrilla racemiflora</i>	1		1	1		
8	<i>Eleocharis baldwinii</i>	1	1	1	1		
9	<i>Eleocharis equisetoides</i>	1					
10	<i>Eleocharis vivipara</i> (submersed)	1	1	1	1		
11	<i>Erechtites hieraciifolius</i>	1			1		
12	<i>Eriocaulon decangulare</i>	1		1	1		
13	<i>Eupatorium capillifolium</i>			1	1		
14	<i>Hedychium coronarium</i>			1			
15	<i>Hypericum brachyphyllum</i>	1		1			
16	<i>Hypericum fasciculatum</i>	1		1	1		
17	<i>Lilaeopsis carolinensis</i>	1					
18	<i>Ludwigia repens</i>				1		
19	<i>Luziola fluitans</i> (Michx.)			1	C		
20	<i>Lycopus</i> sp.	1		1	1		
21	<i>Magnolia virginiana</i>	1	1	1	1		
22	<i>Mayaca fluviatilis</i>	1		1	1		
23	<i>Myrica cerifera</i>			1	1		
24	<i>Myriophyllum heterophyllum</i>	1		1	C	Y	FB
25	<i>Nymphaea odorata</i>	1	1	1	1		
26	<i>Nymphoides aquatica</i>	1					
27	<i>Nyssa sylvatica</i> var. <i>biflora</i>	1		1	1	Y	AO
28	<i>Orontium aquaticum</i>			1			
29	<i>Osmunda regalis</i>	1		1			
30	<i>Oxypolis filiformis</i>				1		
31	<i>Panicum hemitomon</i>	1	1	1			
32	<i>Panicum repens</i>	1	1				
33	<i>Peltandra virginica</i>			1			
34	<i>Polygala cymosa</i>	1		1	1	Y	AO
35	<i>Pontederia cordata</i>	1	1	1	1		
36	<i>Rhynchospora inundata</i>	1			1		
37	<i>Sagittaria lancifolia</i>			1			
38	<i>Sclerolepis uniflora</i>	1	1		1	Y	FB
39	<i>Sparganium americanum</i>	1			1		
40	<i>Taxodium</i> sp.	1	1	1	1		
41	<i>Utricularia floridana</i>	C	D	D	1		
	Taxa per section	30	13	30	26	Herb. Taxa	32
	Exotic Present	1	2	2	0	Woody Taxa	8
	Avg. taxa per section	25	Exotics per Section: 1.25			Ferns	1
	sections with exotics	3				Macro Algae	0
	Exotic Taxa	3				Total Taxa	41

Metric	Rep. 1	Rep. 2	Rep. 3	Rep. 4	LVI Average
LVI 2012	87	72	90	89	84
Native Percentage	96.55	84.62	96.67	100	94.46
FLEPPC Pct (Exotic)	3.45	15.38	3.33	0	5.54
Total Taxa	29	13	30	26	41
C of C over 7.0	37.93	30.77	43.33	30.77	35.70
Dominant Taxa	B. caroliniana, U. floridana	U. floridana	U. floridana	L. Fluitans, U. floridana	U. floridana, +
C of C Dominant	5.42	6.34	6.34	4.35	5.61

G4NW0028. Wright's Basin

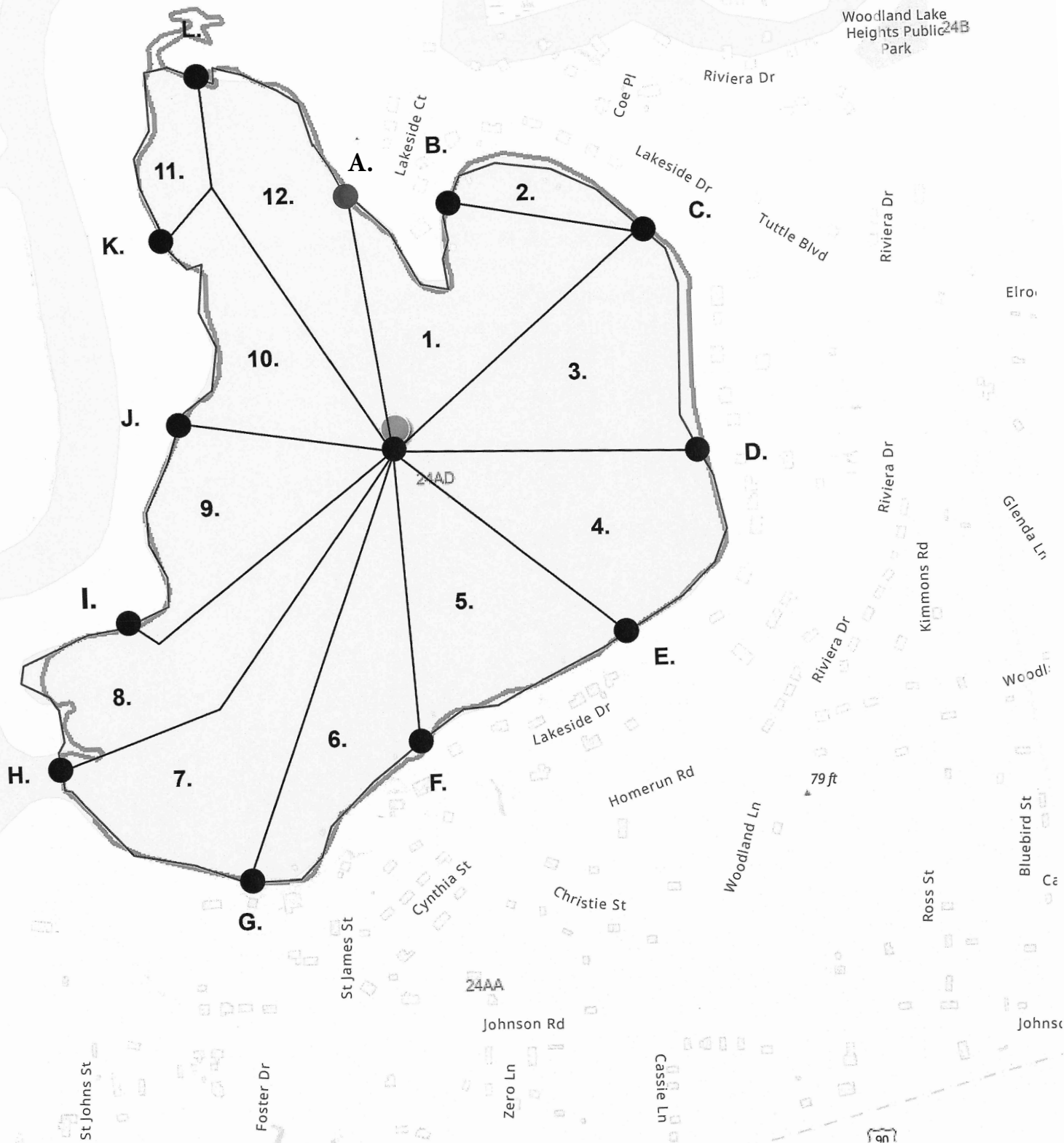
G4NW0028 WBID 24AD

30.63733, -87.00781

161 Acres

Milton, Santa Rosa County

Receiving Water. Blackwater River



Wright's Basin

WIN ID G4NW0028
Receiving Water Blackwater River
Basin / WBID Blackwater River / 24AD
City, County Milton, Santa Rosa
Lake Acreage 161
Circumference (M) 4020
Seg. Length (M) 335

	Location	Dec. Latt.	Dec. Long.
Quadrant	Storet	30.63733	-87.00781
	A	30.64076	-87.00845
	B	30.64057	-87.00690
3	C	30.64017	-87.00404
	D	30.63735	-87.00335
	E	30.63507	-87.00450
6	F	30.63375	-87.00759
	G	30.63204	-87.01015
	H	30.63352	-87.01292
9	I	30.63535	-87.01184
	J	30.63785	-87.01099
	K	30.64019	-87.01115
12	L	30.64227	-87.01055
	A	30.64076	-87.00845

Wright Basin (Center) LVI	WBID	Kit	Qty	Bottle Group	Bottles
Center of Wright Basin G4NW0028	24AD	Nutrientsw/ PO4	1	A	3
		Ortho-Phosphate			1
		Metals			1
		Tracers: E8321-MS/DI			1
		PNSP-TQ-R, TR-SQ-R			4
		HA	1	B	-
		LVI	1		-
RQ-2023-06-26-13					
NEED PICS					

Field ID	WBID	WIN Description	County	Lat Long
G4NW0028	24AD	Center of Wright Basin	Santa Rosa	30.63733, -87.00781

Test	Lot #	Expiration date:
Sulfuric Acid	SA3013020	1/25/2024
Nitric Acid	NA2230040	9/1/2023
Syringe	1363514	-
PO4 Filter	17460495	-

Notes (access, boat ramp, etc.)	
G4NW0028	Needs Pics. Russel Harbor Landing Park. Approximately 2.0 miles downstream of sampling point. 60165 Old Harbor Road. Milton,FL 32750. 30.63074 x -87.029515

Wright Basin (Center) LVI				
Field ID	TIME	Conductivity	pH	DO mg-L / Temp.
G4NW0028				
RQ-2023-06-26-13				

Station: Center of Wright Basin
 GPS Dec. 30.63733 x -87.00781
 Storet: G4NW02028 WBID 24AD
 Sample ID: 84637 Macro ID: 12194
 RQ-2022-05-23-27

2022

Sampled : 05/24/2022
 Sampled By: F. Butera, L. McNally
 Location: Milton, Santa Rosa
 Receiving Waters: Blackwater River
 LIMS ID: 2329784

	Taxa	2	5	8	11	Coll.	Verified
1	<i>Acer rubrum</i>	1					
2	<i>Bacopa caroliniana</i>			1	1		
3	<i>Boehmeria cylindrica</i>		1				
4	<i>Chamaecyparis thyoides</i>	1			1		
5	<i>Cladium jamaicense</i>	1		1	1		
6	<i>Cliftonia monophylla</i>		1	1	1		
7	<i>Colocasia esculenta</i>	1	1		1		
8	<i>Cyrilla racemiflora</i>	1	1	1	1		
9	<i>Eclipta prostrata</i> (E. alba syn.)	1	1				
10	<i>Eleocharis baldwinii</i>	1					
11	<i>Eleocharis vivipara</i> (submersed)			1			
12	<i>Erechtites hieraciifolius</i>	1					
13	<i>Eriocaulon decangulare</i>	1	1	1	1		
14	<i>Hydrocotyle</i> sp.	1	1	1			
15	<i>Hypericum brachyphyllum</i>			1	1		
16	<i>Hypericum fasciculatum</i>	1	1	1			
17	<i>Juncus effusus</i>			1			
18	<i>Juncus polycephalus</i>		1		1		
19	<i>Juncus trigonocarpus</i>	1					
20	<i>Ludwigia</i> (Unknown Nativity)*	1					
21	<i>Ludwigia repens</i>	1					
22	<i>Lycopus</i> sp.	1					
23	<i>Magnolia virginiana</i>	1	1		1		
24	<i>Mayaca fluviatilis</i>			1	1		
25	<i>Myrica cerifera</i>	1	1				
26	<i>Myriophyllum heterophyllum</i>	1	1	C		Y	FB
27	<i>Nuphar</i> sp.			1			
28	<i>Nymphaea odorata</i>	1	1	1	1		
29	<i>Nymphoides aquatica</i>	1	1	1	1		
30	<i>Nyssa sylvatica</i> var. <i>biflora</i>			1	1		
31	<i>Osmunda regalis</i>		1				
32	<i>Panicum repens</i>	C	1				
33	<i>Paspalum urvillei</i>	1					
34	<i>Peltandra</i> sp.	1		1	1		
35	<i>Phragmites australis</i>		1		1		
36	<i>Pontederia cordata</i>			1	1		
37	<i>Potamogeton diversifolius</i>		1		1		
38	<i>Rhynchospora inundata</i>	1		1		Y	FB
39	<i>Rhynchospora</i> sp.	1					
40	<i>Sagittaria lancifolia</i>	1	1	1	1		
41	<i>Sapium sebiferum</i>	1					
42	<i>Solidago</i> sp.	1		1	1		
43	<i>Taxodium</i> sp.	1	1		1		
44	<i>Triadenum virginicum</i>	1					
45	<i>Typha</i> sp.	1	1		1		
46	<i>Utricularia floridana</i>	C	D	C	1		
47	<i>Vitis</i> sp.	1					
48	<i>Woodwardia areolata</i>				1		

2022