



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

April 2018

Data Qualified?

Yes / No

WIN Station Name: Wakulla at CR 365 Bridge

Date: 07/17/2018

WIN/ Field ID: 34879

WBID: 1006

Latitude: 30.21373

(mm/dd/yyyy)

County: Wakulla

ORG ID: 21FLWQA

Longitude: -84.26163

(Decimal Degrees)

Receiving Body of Water: St. Marks River

RQ-2018- 07-16-16

(Decimal Degrees)

Sampling Team Members						WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment					
J. Burkett C. Green											☒ Sample Container	☒ Van Dorn	☐ Pole			
											☐ Carboy	☒ Syringe				
											☐ Dipper	☐ Other				
Depth Measured with						Equipment ID						Collection Method				
											☐ Wading	☐ Canoe/Kayak				
											☐ From Shore	☐ Electric Motor				
											☐ Other	☒ Gasoline Motor				
Water Level: Dry/ Pooled/ Low / <u>Normal</u> / High / Flooded						Meter ID# <u>Exo 3</u>				Matrix: <u>Fresh</u> / Marine / DI						
Photos: Yes ☐ No ☒		Flow: No Flow / Intestinal / <u>Flowing</u> / NA				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 (umhos/cm)	Temp. (C°)						
EST	10:35	2.4	0.3	2.45	48.3	4.28	7.70	0.02	318	21.5						
CEN	10:40		1.9		49.0	4.34	7.69	0.02	318	21.5						
Biological Samples Collected: None <u>HA</u> <u>SCI</u> <u>RPS</u> <u>Algae ID</u> <u>LVS</u> LVI Other: <u>711041</u>																
SBIO ID Numbers: SBIO-ID: <u>78619</u> HA-ID: <u>15289</u> RPS-ID: <u>9061</u> Macrophyte-ID: <u>10997</u> LIMS#: <u>2008226</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		SA8085170	3/26/19	☒ <2					
Metals		☒ W-ICPMS ☒ W-ICP					☒ Ice ☒ HNO3		NA7226050	8/14/18	☒ <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-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					☒ Ice									
Molecular		☐ PCR-FILTER ☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-GFD					☐ Ice									
Tracers		☒ W-E8321-DI ☒ W-E8321-MS					☐ Ice									
Pesticides		☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-E8321-DI					☐ Ice									
		☐ W-PCL-SQ-R ☐ WE8321-MS ☐ W-CARB-AA					☐ Other									

Notes:

Kit-C
FW BACT, TRACERS
SCI, RPS, LVS, HA

↓ Location ↓

WIN ID/Field ID



34879



Wakulla River at CR 365

Signature:

[Signature]

Date: 07/17/18

Enter Field Parameters, Verify Station ID In LIMS DMT:

QC Station ID, Field Parameters In LIMS DMT:

267-24-18

Scan/Save Field Sheets

(Initials/Date)

Migrate Data to WIN:

(Initials/Date)

Verify Data In WIN:

(Initials/Date)

(Initials/Date)

DEP Form FD 9000-5 Stream/River Habitat Assessment Field Sheet

SRID: 79619 HA: 15289

SAMPLING AGENCY: Florida Department of Environmental Protection		STORET STATION NUMBER: <u>34879</u>	DATE (MM/DD/YY): <u>7/17/18</u>	RECEIVING BODY OF WATER: <u>St. Marks River</u>
REMARKS:	COUNTY: <u>Wakulla</u>	LOCATION: <u>Wakulla @ CR 365 Bridge</u>	FIELD ID/NAME: <u>34879</u>	

Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components Snag Leaf Aquatic Vegetation Roots Rock Substrate Diversity <u>10</u>	Four or more major productive habitats present [snags, tree roots, aquatic vegetation, leaf packs (partially decayed), rock] 20 19 18 17 16	Three major productive habitats present. Adequate habitat. Some substrates may be new fall (fresh leaves or snags) 15 14 13 12 11	Two major productive habitats present. Less than desirable habitat, frequently disturbed or removed <u>10</u> 9 8 7 6	One or less major productive habitat. Lack of habitat is obvious, substrates unstable or smothered 5 4 3 2 1
Substrate Availability <u>20</u> %	Major productive habitat present at site (≥30% 27.2% 25.8% 24.4% 26.6%) <u>20</u> 19 18 17 16	Major productive habitat, by aerial extent (21.6% 20.2% 18.8% 17.4% 16%) 15 14 13 12 11	6% to 15% major productive habitat (15% 13% 11% 9% 6%) 10 9 8 7 6	Less than 5% major productive habitat 5 4 3 2 1
Water Velocity <u>20</u> <u>0.5</u> m/s	Max. observed at typical transect: > 0.25 m/sec. But < 1 m/sec ≥0.33 0.31 0.29 0.27 >0.25 <u>20</u> 19 18 17 16	Max. observed at typical transect: >0.1 to 0.25 m/sec 0.25 0.21 0.17 0.13 >0.1 15 14 13 12 11	Max. observed at typical transect: 0.05 to 0.1 m/sec 0.1 0.09 0.07 0.06 0.05 10 9 8 7 6	Max. observed at typical transect: <0.05 m/sec; or spate occurring: > 1 m/sec <0.05 0.04 0.03 0.01 <0.01 5 4 3 2 1
Habitat Smothering <u>18</u> Primary Score <u>68</u>	Adequate number of stable pools (1-2 per 12 times width) and <25% of habitats affected by sand, silt, or algae. 20 19 <u>18</u> 17 16	Adequate number of stable pools (1-2 per 12 times width) and >25% of habitats affected by sand, silt, or algae. 15 14 13 12 11	Does not have required number of stable pools (1-2 per 12 x width) and/or has shallow pools (<2 x prevailing depth). 10 9 8 7 6	Stable pools are absent. Most habitats affected by sand, silt, or algae accumulation. 5 4 3 2 1
Secondary Habitat Components Artificial Channelization <u>18</u>	Expected sinuosity given the stream width. No evidence of dredging or artificial straightening. No spoil banks. 20 19 <u>18</u> 17 16	Good sinuosity within old channelized area. Evidence of dredging in the past (>25 yrs) but mostly recovered. May have spoil banks. 15 14 13 12 11	Straightened with trapezoidal cross section, but has a small degree of sinuosity developed within channelized area. May have spoil banks. 10 9 8 7 6	Straightened or engineered by dredging, has trapezoidal or box cut cross section, lacks required pools. May have spoil banks. 5 4 3 2 1
Bank Stability Right Bank <u>10</u> Left Bank <u>10</u> If Banks are PipeClay, BedRock or Concrete at Bank full: Optimal	Bankfull > 60% of bank height. Slope of bank ≤ 60° from bankfull to top of bank. Bankfull is within or above the root zone with few raw, eroded areas. (+,+,+) 10 9	Only meets 2 of the 3 requirements for optimal bank stability. (+,+,-) 8 7 6	Only meets 1 of the 3 requirements for optimal bank stability. (+,-,-) 5 4	Bankfull < 60% of bank height. Slope of bank > 60°. Bankfull is below the root zone with raw, eroded areas. (-,-,-) 3 2 1
Riparian Buffer Zone Width Right Bank <u>9</u> Left Bank <u>5</u>	Width of vegetation greater than 18 m 10 9	Width of vegetation >12 to 18m 8 7 6 (18m 15m 12m)	Width of vegetation 6 to 12 m. human activities close to system 5 4 (9m)	Less than 6 m of buffer zone due to intensive human activities 3 2 1 (6-5m) (4-3m) (<2m)
Riparian Zone Vegetation Quality Right Bank <u>10</u> Left Bank <u>10</u> Secondary Score <u>70</u>	Over 80% of riparian surfaces consist of normal, expected plant community for given sunlight & habitat conditions (e.g., native plants; tree, shrub, and forbs represented, if appropriate). Minimal disturbance. 10 9	>50% to 80% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Some disruption in community observed. 8 7 6	25% to 50% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Disruption obvious. 5 4	Less than 25% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). 3 2 1

740 138 TOTAL SCORE

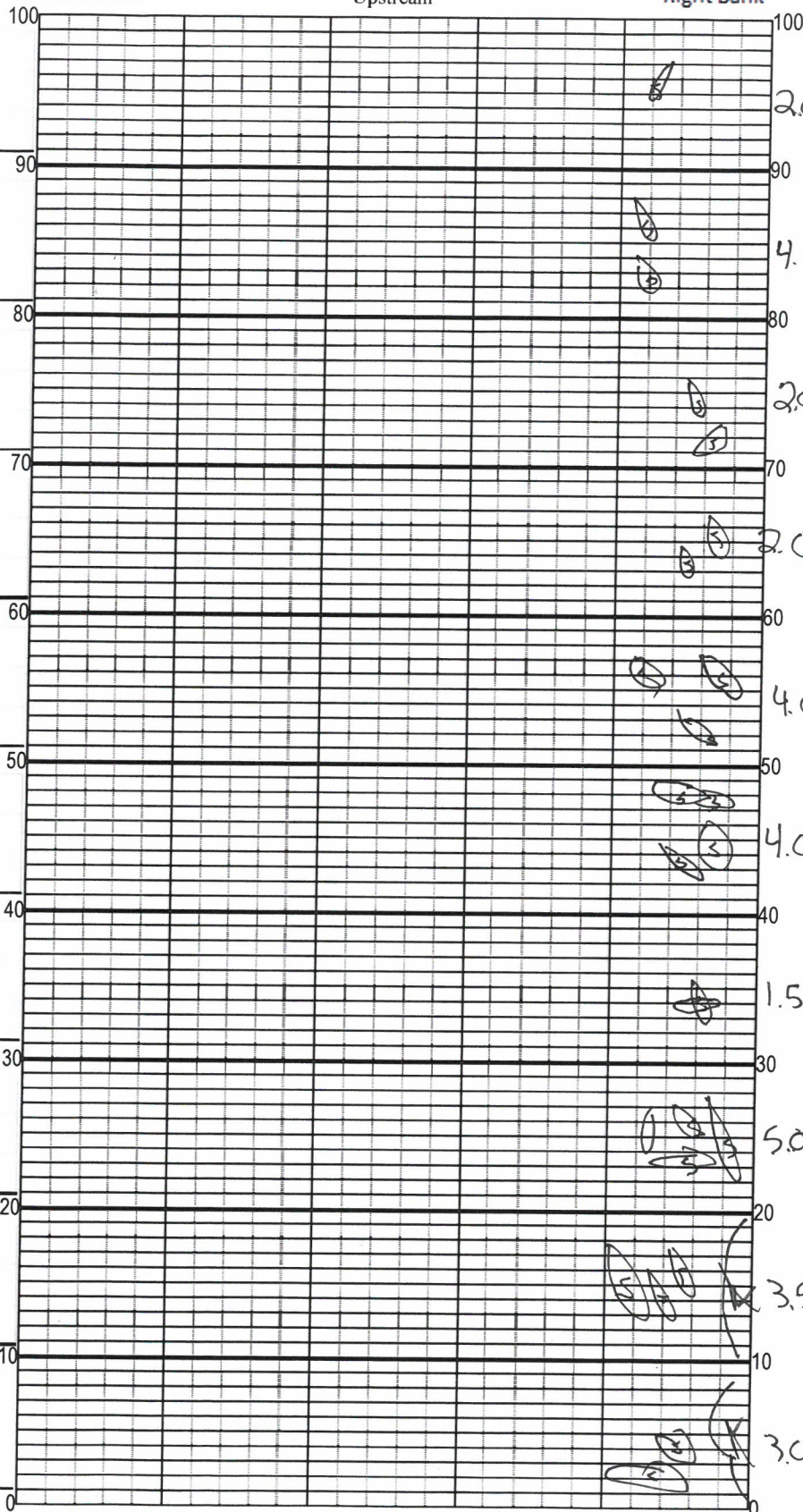
Date: <u>7/17/18</u>	Analyst: <u>J. Burtchett</u>	Signature: <u>Jude</u>
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DEP Form FD 9000-4 Stream/River Habitat Assessment Sketch Sheet

Left Bank

Upstream

Right Bank



Location: Wakulla @ CR 365 Bridge

Date: 7/12/19

Sampler:

100 m: Latitude	_____
Longitude	_____
0 m: Latitude	_____
Longitude	_____

Substrates: Code key, draw proportionate habitat abundance. %

S Snags	<u>4.13</u>
R Roots/undercut banks	_____
L Leaf Packs (or mats)	_____
M Aquatic Macrophytes	<u>80</u>
Rc Rock	_____
_____ sand	<u>15.87</u>
P Pools	total # observed = <u>2</u> # range expected = <u>1</u>

Average width	<u>75</u> m
Average depth	<u>2.4</u> m

Velocity measured at	<u>50</u> meter mark.
Velocity	<u>0.5</u> m/s

WQ & chemistry taken at 50 meter mark.

Habitat Smothering:
Note areas (on map) where sand or silt is smothering substrates, limiting habitability.

Bank Stability:
Note areas (on map) with unstable, eroding banks.

Riparian Buffer Width:
Note areas (on map) where natural vegetation is altered or eliminated.

Notes/Plants Observed:
2m² = 13.2 Sweeps

31 = 5

# of Sweeps	Conversion	m ²	%
Snag	÷ 8	m ²	
Root	÷ 8	m ²	
Leaf	÷ 8	m ²	
Macrophyte	÷ 8	m ²	
Rock	÷ 8	m ²	
Total Available Habitat		m ²	
Total Area		m ²	
Total Unavailable Habitat		m ²	

Meter Mark	Depth (m)	Width (m)	Velocity Measurement (Sec)
Avg.			

Length of grid represents 100 m of stream (not linear meters). (Horizontal scale is double vertical scale, draw proportionately).

Expected Number of Pools

$$\left(\frac{100}{12 \times W} \right) \times 1 =$$

$$\left(\frac{100}{12 \times W} \right) \times 2 =$$

SBIO: 79619 RPS: 9061

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: Wakulla @ CR 365 Bridge County: Wakulla Date: 7/17/18 Investigators: J. Burkett, J. Woods

Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover	Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover
0	1	4			60	1	3		
	2	6				2	4		
	3	4				3	4		
	4	4				4	3		
	5	3				5			
	6	5				6			
	7	3				7			
	8	4				8			
	9	N				9			
10	1	N			70	1	3		
	2	3				2	1		
	3	6				3			
	4	5				4			
	5	6				5			
	6	5				6			
	7	5				7			
	8	4				8	4		
	9	3				9	3		
20	1	3			80	1	5		
	2	3				2	5		
	3	4				3	4		
	4	6				4	3		
	5	6				5	4		
	6	5				6	3		
	7	5				7			
	8	3				8			
	9	4				9	4		
30	1	4			90	1	4		
	2	3				2	5		
	3	N				3	4		
	4	3				4	4		
	5	3				5			
	6	5				6			
	7	3				7			
	8	3				8	5		
	9	4				9	4		
40	1	4			100	1	4		
	2	N				2	4		
	3	3				3	N		
	4	3				4			
	5	4				5			
	6	4				6			
	7	5				7			
	8	3				8	3		
	9	3				9	3		
50	1	3			Record "N" and check "Estimated" for points deeper than the Secchi depth; algae are presumed absent. Check "Estimated" if thickness estimated for deep points which can be seen but not reached. Record "X" for points shallower than Secchi depth for which substrate cannot be seen or reached with the hand. No estimated rank. Record canopy cover as the number of small densiometer quadrants (out of 96) that HAVE canopy cover. Measure facing upstream at point 4, 5, or 6. Collect algal mat sample following DEP SOP FS 7240 if the percentage of total sampled points with a thickness rank of 4, 5, or 6 is >20%.				
	2	5							
	3	3							
	4	4							
	5								
	6								
	7								
	8	3							
	9	3							

STORET Station Number:

Secchi depth 100
Estimated? N

points ranked 4-6 99
total points assessed 99
% points ranked 4-6 99

(Exclude X's)

Check accompanying data collected at same site/date.

Algal mat sample ☐

Linear Veg Survey ☐

Habitat Assessment ☐

SCI/Biorecon ☐

Water sample ☐

RQ- ☐

Algal Thickness Rank	
N	rough, no algae, slimy, algae up to 1mm
3	>1mm - 6mm
4	>6mm - 20mm
5	>20mm - 10 cm
6	>10 cm

(> 3 considered smothered)

(N to 1 mm)

(3) 6mm

(4) 20mm

(5) 10cm

(6)

SBIO: 78619 Macrophyte: 11041 LIMS: 2008226

DEP FORM FD 9000-32: LINEAR VEGETATION SURVEY FIELD SHEET

Waterbody: Wakulla River @ CR 365 Bridge	Date: 7/17/2018	County: Wakulla	Storet Number: 34879
Analyst: J. Burchett		Signature: <i>[Signature]</i>	
Comments: SMP Sampling			

Instructions: Note taxa growing in the water with a checkmark if present, "D" if dominant, and "C" if codominant (dominance only if 1 m² of taxa present). Note in the boxes below if no dominant are selected, and note total macrophyte abundance rank for each section. Only the most common taxa are listed, so use blank spaces for additional taxa names.

HERBACEOUS SPECIES	Meter Mark										Specimen collected (check)	HERBACEOUS SPECIES	Meter Mark										Specimen collected (check)	
	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100			0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100		
Alternanthera philoxeroides												Myriophyllum heterophyllum	✓	✓	✓									
Bacopa caroliniana												Najas guadelupensis												
Bacopa monnieri												Nuphar luteum												
Bidens mitis		✓	✓									Orontium aquaticum												
Boehmeria cylindrica	✓	✓	✓			✓	✓	✓				Panicum hemitomon												
Centella asiatica	✓	✓	✓									Panicum repens												
Ceratophyllum demersum	✓	✓	✓									Panicum rigidulum												
Chara		✓	✓									Peltandra virginica												
Cicuta maculata	✓	✓	✓			✓	✓	✓	✓	✓		Pistia stratioides												
Cladium jamaicense												Polygonum glabra					✓	✓	✓	✓				
Colocasia esculenta												Polygonum hydropiperoides							✓	✓				
Commelina diffusa												Polygonum punctatum												
Commelina virginica												Pontedaria cordata	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Crinum americanum						✓						Potamogeton illinoensis												
Diodia virginiana												Rhynchospora inundata												
Eichhornia crassipes		✓	✓									Rosa palustris												
Eleocharis (wispy viviparous)	✓	✓	✓									Ruellia simplex												
Hydrilla verticillata			✓									Rumex verticillatus												
Hydrocotyle												Sacciolepis striata												
Hygrophila polysperma												Sagittaria kurziana	✓	✓	✓	✓	✓							
Hymenocallis												Sagittaria lancifolia	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Lachnanthes caroliniana												Sagittaria latifolia												
Landoltia punctata												Salvinia minima												
Lemna												Samolus parviflora												
Limnophila sessiflora												Saururus cernuus												
Ludwigia leptocarpa												Scirpus (schenoplectus) californicus				✓	✓	✓		✓	✓	✓		
Ludwigia palustris												Sparganium americanum	✓	✓	✓									
Ludwigia peruviana												Typha	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Ludwigia repens												Vallisneria americana	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Luziola fluitans												Zizania aquatica												
Micranthemum glomeratum												Schoenoplectus				✓	✓	✓	✓	✓	✓	✓		
Micranthemum umbrosum												Sagittaria												
Mikania scandens																								
Myriophyllum aquaticum																								
If no Dominant or Co-Dominant were selected, indicate with "X"																								
Indicate % cover macrophytes per section																								
0-5% Macrophyte Coverage																								
>5 and ≤10% Macrophyte Coverage																								
>10 and ≤25% Macrophyte Coverage																								
>25 and ≤50% Macrophyte Coverage																								
> 50% Macrophyte Coverage	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓													

Notes: 2 plant live (30-40) sed. □ < 2m2

DEP Form FD 9000-3 Physical/Chemical Characterization Field Sheet

SAMPLE ID 79619 ORG ID 21FLWQA LATITUDE 30.21373
COUNTY Wakulla STORET # 34879 LONGITUDE -84.26163
DATE 7/17/18 TIME 1035 SAMPLING AGENCY FDEP
SITE NAME Wakulla @ CR 365 Bridge
FIELD ID/NAME Wakulla @ CR 365 Bridge RECEIVING BODY OF WATER St. Marks River

RIPARIAN ZONE / STREAM FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category): Forest/Natural <u>25</u> Silviculture <u>0</u> Field/Pasture <u>35</u> Agricultural <u>0</u> Residential <u>40</u> Commercial <u>0</u> Industry <u>0</u> Other (Specify) <u>0</u>								Landscape Development Intensity Index (LDI) <u>0</u>
Local Watershed Erosion (select one): ☒ None ☐ Slight ☐ Moderate ☐ Heavy Local Watershed NPS Pollution: ☒ No evidence ☐ Slight ☐ Moderate ☐ Heavy								Typical Width (m) Depth (m)/Velocity (m/sec) Transect <u>75</u> m wide <u>0.3</u> m/s <u>0.5</u> m/s <u>0.4</u> m/s <u>1.8</u> m deep <u>2.4</u> m deep <u>1.7</u> m deep
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank: <u>6-12</u> Right Bank: <u>718</u>				Hydrologic Modification Score (per FT 3101) <u>0</u>				
High Water Mark: <u>0</u> + <u>2.4</u> = <u>2.4</u> (m) (above present water level) (present depth) (above bed)				Artificially Impounded ☐ Yes ☒ No				
Artificially ☒ No ☒ Mostly recovered, more sinuous Channelized: ☐ Some recovery ☐ Recent, severe				Canopy Cover % ☒ Open ☐ Lightly Shaded (11-45%) ☐ Heavily Shaded ☐ Moderate Shaded (46-80%)				

SEDIMENT / SUBSTRATE

Sediment Oils ☒ Absent ☐ Slight ☐ Moderate ☐ Profuse			Sediment Odors ☐ Normal ☐ Sewage ☐ Petroleum ☐ Chemical ☐ Anaerobic ☐ Other (Specify):			Smothering of Substrates Sand Smothering: None ☒ Slight ☐ Moderate ☐ Severe ☐ Silt Smothering: None ☒ Slight ☐ Moderate ☐ Severe ☐ Algae Smothering: None ☐ Slight ☐ Moderate ☒ Severe ☐		
SUBSTRATE TYPE Assessment Tool: ☒ SCI ☒ RPS ☒ LVS ☐ LCI ☐ BioRecon			WATER QUALITY Depth (M) Temp. (°C) pH (SU) D.O. (MG/L) D.O. Sat (%) Cond. (UMHO/CM) Salinity (PPT) SECCHI (M) Top: <u>0.3</u> <u>21.5</u> <u>7.70</u> <u>4.28</u> <u>44.3</u> <u>318</u> <u>0.02</u> <u>24</u> Mid: <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> Bottom: <u>1.9</u> <u>21.5</u> <u>7.69</u> <u>4.34</u> <u>49.0</u> <u>314</u> <u>0.02</u> <u>2.4</u> Meter ID: <u>Exo3</u>					
Woody Debris (Snags) <u>413</u> <u>5</u> <u>0</u> Undercut Banks / Roots <u>0</u> <u>0</u> <u>0</u> Leaf Packs or Mat <u>0</u> <u>0</u> <u>0</u> Aquatic Vegetation <u>80</u> <u>10</u> <u>0</u> Rock or Shell Rubble <u>0</u> <u>0</u> <u>0</u> Sand <u>15.87</u> <u>5</u> <u>0</u> Mud / Muck / Silt <u>0</u> <u>0</u> <u>0</u> Other <u>0</u> <u>0</u> <u>0</u> Other <u>0</u> <u>0</u> <u>0</u>			Water Odors Normal ☒ Petroleum ☐ Sewage ☐ Chemical ☐ Other ☐			Water Surface Oils Normal ☒ Sheen ☐ Globs ☐ Slick ☐ Other ☐		
Abundance Periphyton: ☐ Not Obs. ☐ Rare ☐ Common ☒ Abundant Fish: ☐ Not Obs. ☒ Rare ☐ Common ☐ Abundant Aquatic Plants: ☐ Not Obs. ☐ Rare ☐ Common ☒ Abundant Iron/Sulfur Bacteria: ☒ Not Obs. ☐ Rare ☐ Common ☐ Abundant			Water Sample Taken? ☒ Yes ☐ No Sample Preserved? ☒ Yes ☐ No Lot Number: Exp:			Color Tannic ☐ Green (Algae) ☐ Clear ☒ Other (Specify)		
System Type: Stream ☒ Lake ☐ Wetland ☐ Estuary ☐ Other (Specify)			Clarity Clear ☒ Slightly Turbid ☐ Turbid ☐ Opaque ☐					
AMBIENT FIELD CONDITIONS / NOTES: ☒ The antecedent hydrologic conditions have been met to my best knowledge.								
SAMPLING TEAM <u>J. Burtchett, C. Green</u>				SIGNATURE: <u>Jade R</u>		DATE: <u>7/17/18</u>		

Florida Department of Environmental Protection

Central Laboratory Submittal Form

Customer: WAS-SECT

Project ID: BMAP

Requester: Curtis MussonCollected By: J. Butcher HField Report Prepared By: J. Butcher H, C. GreenSampling Agency: 8034

Location		↓ Location ↓		☐ Comp	Collection (comp begin or grab)		☒ Grab	Date <u>7/17/18</u>	Time <u>1035</u>	☒ Eastern	Composite end	Bottle Group(s) (See pg 2)
Field ID	WIN ID/Field ID			Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	☒ mg/L	Total Res. Chlorine (mg/L)		Date	Time	
WIN/STORET #	<u>34879</u>	<u>Wakulla River at CR 365</u>		Temp (C) <u>21.5</u>		pH <u>7.70</u>	Sample Depth <u>0.3</u>	☒ ft	Sp. Conductance (umho/cm) <u>3K</u>			<u>A, B</u>
Latitude	☐ dd	Longitude	☐ dms	☐ dd	Salinity (ppt) <u>0.02</u>	Comments						
Location		<u>Wakulla River @ CR 365</u>		☒ Comp	Collection (comp begin or grab)		☐ Grab	Date <u>7/17/18</u>	Time <u>1035</u>	☒ Eastern	Composite end	Bottle Group(s)
Field ID	<u>34879</u>			Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	☐ mg/L	Total Res. Chlorine (mg/L)		Date	Time	
WIN/STORET #				Temp (C)		pH	Sample Depth	☐ ft	Sp. Conductance (umho/cm)			<u>B</u>
Latitude	☐ dd	Longitude	☐ dms	☐ dd	Salinity (ppt)	Comments <u>SCI DONE</u>						
Location				☐ Comp	Collection (comp begin or grab)		☐ Grab	Date	Time	☐ Eastern	Composite end	Bottle Group(s)
Field ID				Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	☐ mg/L	Total Res. Chlorine (mg/L)		Date	Time	
WIN/STORET #				Temp (C)		pH	Sample Depth	☐ ft	Sp. Conductance (umho/cm)			
Latitude	☐ dd	Longitude	☐ dms	☐ dd	Salinity (ppt)	Comments						
Location				☐ Comp	Collection (comp begin or grab)		☐ Grab	Date	Time	☐ Eastern	Composite end	Bottle Group(s)
Field ID				Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	☐ mg/L	Total Res. Chlorine (mg/L)		Date	Time	
WIN/STORET #				Temp (C)		pH	Sample Depth	☐ ft	Sp. Conductance (umho/cm)			
Latitude	☐ dd	Longitude	☐ dms	☐ dd	Salinity (ppt)	Comments						

Relinquished By: <u>JB, CG</u>	Date/Time <u>7/18/18: 818</u>	Shipping Method <u>HD</u>	Number of Coolers Shipped: <u>1</u>	Received By: <u>JB</u>	Date/Time <u>7-18-18 / 108:18</u>
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* Correction by sampler 7/20/18

Group: A	Bottle Type:	P-1L	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	ALKALINITY						
	TURBIDITY						
	W-CL-IC						
	W-COLOR						
	W-F						
	W-SO4-IC						
	W-TDS						
	W-TSS						
Group: A	Bottle Type:	BP-1L	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	CHLSUITE-W						
Group: A	Bottle Type:	P-250ML-WO-THI	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	ECOLI-18QT						
Group: A	Bottle Type:	BG-500ML	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	W-E8321-DI						
	W-E8321-MS						
Group: A	Bottle Type:	P-500ML	# of Bottles: 2	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	1
	W-ICP						
	W-ICPMS						
Group: A	Bottle Type:	P-500ML	# of Bottles: 2	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	1
	W-NH3						
	W-NO2NO3						
	W-S-A-TP						
	W-TKN						
	W-TOC						
Group: A	Bottle Type:	P-125ML	# of Bottles: 2	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	1
	W-PO4-F						
Group: B	Bottle Type:	PT-50ML	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	ALGAL_ID						
Group: B	Bottle Type:	PJ-2L	# of Bottles: 4	Preservative:	Formalin	Enter Number of Bottles Sent to Lab	2
	MI-FW-QLDC						