



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

April 2018

Data Qualified?

Yes / No

WIN Station Name: Black Creek upstream of CR158

Date: 6/26/18

(mm/dd/yyyy)

WIN/ Field ID: G1WA0072

WBID: 628

Latitude: 30.472981

County: Leon

ORG ID: 21FLWQA

Longitude: -84.057057

(Decimal Degrees)

Receiving Body of Water: Wacissa Springs

RQ-2018- 05-14-18

(Decimal Degrees)

Sampling Team Members						WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment				
Blake Spencer											☒ Sample Container	☐ Van Dorn	☐ Pole		
Todd Risk											☐ Carboy	☒ Syringe			
											☐ Dipper	☐ Other			
											Depth Measured with <u>Meter Stick</u>				
											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# Biology #2				Matrix: <u>Fresh</u> / Marine / DI					
Photos: Yes / <u>No</u>						Flow: No Flow / Intestinal / <u>Flowing</u> / NA				Tide: Rising/ Falling/ Slack/ <u>NA</u>					
Tide Times: High <u>NA</u> Low <u>NA</u>															
Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPT)	Sp COND (µmhos/cm)	Temp. (C°)					
EST	0850		0.1		6.17	75.4	5.45	0.01	33	25.46					
CEN		0.2		VOB											
Biological Samples Collected: None <u>HA</u> <u>SCI</u> <u>RPS</u> Algae ID <u>LVS</u> LVI Other:															
SBIO ID Numbers: SBIO-ID: <u>78486</u> HA-ID: <u>15209</u> RPS-ID: <u>9048</u> Macrophyte-ID: <u>C2M</u> LIMS#: <u>2003262</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	<u>SA8085170</u>	<u>3/26/19</u>	☒ 2						
Metals	☒ W-ICPMS ☒ W-ICP					☒ Ice ☒ HNO3	<u>NA7261120</u>	<u>12/7/18</u>	☒ <2						
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter					☒ Ice	<u>10827054</u>								
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
Markers
SCI, LVS, RPS, HA

Black Creek
upstream of CR158

FILED/WIN ID



G1WA0072

Signature:

Date:

Enter Field Parameters, Verify Station ID In LIMS DMT: 6/26/18

QC Station ID, Field Parameters In LIMS DMT: CM 6-26-18

Scan/Save Field Sheets CM 6-26-18

Migrate Data to WIN:

Verify Data In WIN:

(Initials/Date)

SBIO: 78486 RPS: 9049 LIMS: 2003262

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: *Black Creek Upstream of CR158*
GIWA0072

County: *Leon*

Date: *6/26/18*

Investigators: *Blake Spencer + Todd Risk*

STORET Station Number:
GIWA0072

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	N	N		60	1	N	N	
	2	N	N			2	N	N	
	3	N	N			3	N	N	
	4	N	N			4	N	N	
	5	N	N	96		5	N	N	96
	6	N	N			6	N	N	
	7	N	N			7	N	N	
	8	N	N			8	N	N	
	9	N	N			9	N	N	
10	1	N	N		70	1	N	N	
	2	N	N			2	N	N	
	3	N	N			3	N	N	
	4	N	N			4	N	N	
	5	N	N	96		5	N	N	94
	6	N	N			6	N	N	
	7	N	N			7	N	N	
	8	N	N			8	N	N	
	9	N	N			9	N	N	
20	1	N	N		80	1	N	N	
	2	N	N			2	N	N	
	3	N	N			3	N	N	
	4	N	N			4	N	N	
	5	N	N	92		5	N	N	96
	6	N	N			6	N	N	
	7	N	N			7	N	N	
	8	N	N			8	N	N	
	9	N	N			9	N	N	
30	1	N	N		90	1	N	N	
	2	N	N			2	N	N	
	3	N	N			3	N	N	
	4	N	N			4	N	N	
	5	N	N	96		5	N	N	95
	6	N	N			6	N	N	
	7	N	N			7	N	N	
	8	N	N			8	N	N	
	9	N	N			9	N	N	
40	1	N	N		100	1	N	N	
	2	N	N			2	N	N	
	3	N	N			3	N	N	
	4	N	N			4	N	N	
	5	N	N	96		5	N	N	94
	6	N	N			6	N	N	
	7	N	N			7	N	N	
	8	N	N			8	N	N	
	9	N	N			9	N	N	
50	1	N	N			1	N	N	
	2	N	N			2	N	N	
	3	N	N			3	N	N	
	4	N	N			4	N	N	
	5	N	N	91		5	N	N	
	6	N	N			6	N	N	
	7	N	N			7	N	N	
	8	N	N			8	N	N	
	9	N	N			9	N	N	

Secchi depth *0.2* VOB
 Estimated? *N*

points ranked 4-6 *0*
 total points assessed *99*
 % points ranked 4-6 *0*

Check accompanying data collected at same site/date.

Algal mat sample ☐
 Linear Veg Survey ☒
 Habitat Assessment ☒
 SCI/Biorecon ☒
 Water sample ☒

RQ- *2018-05-14-18*

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

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%.

SRTIO: 78496 Macrophyte: 10982 LIMS #: 2003262

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

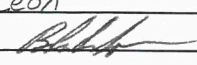
Waterbody: Black Creek Upstream of CR158

Date: 6/26/19

County: Leon

Storet Number: G1WA0072

Analyst: Blake Spencer

Signature: 

Comments:

< 2m²

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

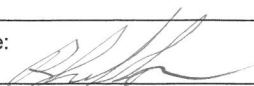
DEP Form FD 9000-5 Stream/River Habitat Assessment Field Sheet

SRIO: 78486 HA: 15209

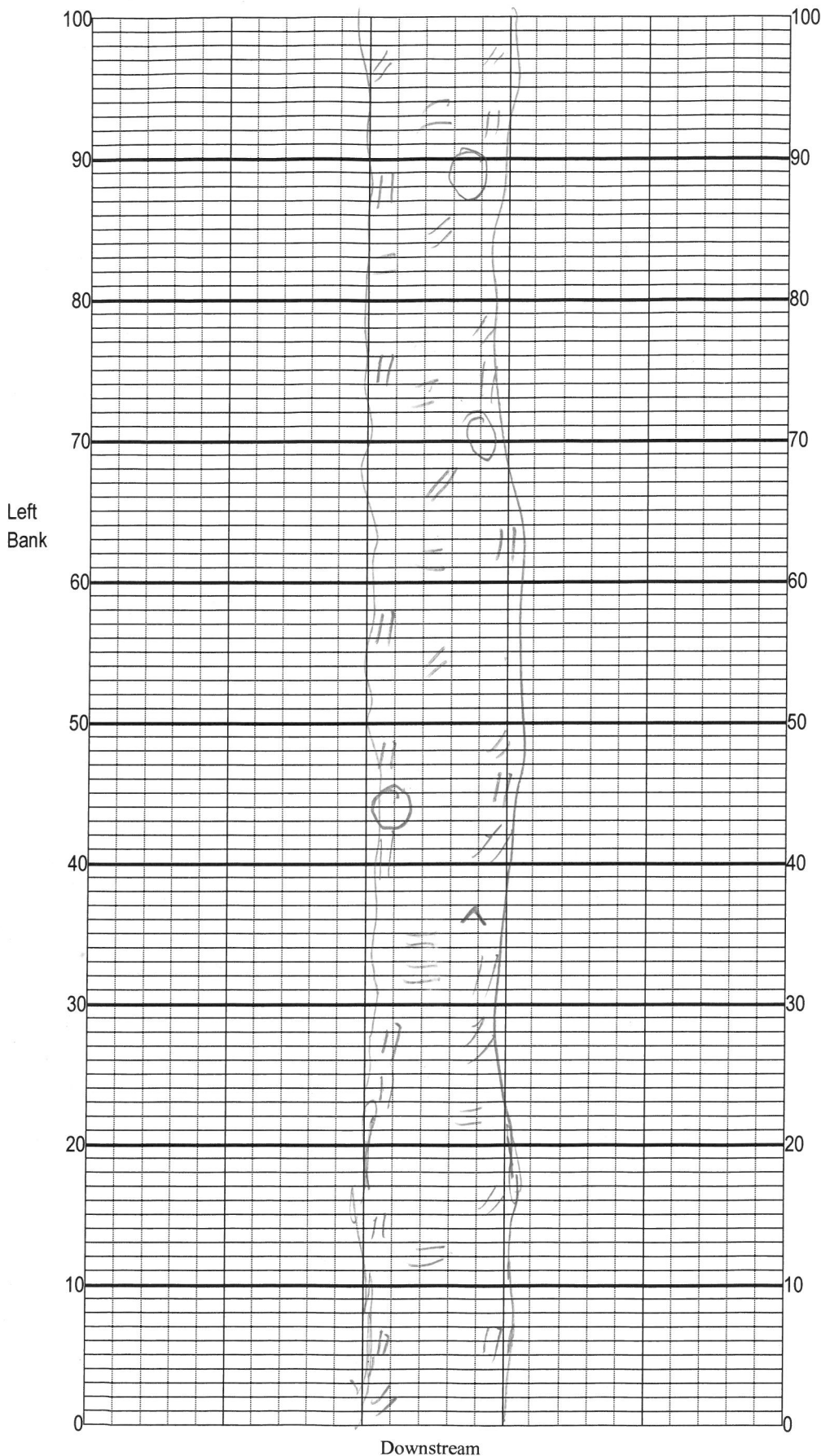
SAMPLING AGENCY: FDEP Tallahassee / 21FLWQA		STORET STATION NUMBER: G/WA0072	DATE (MM/DD/YY): 6/26/18	RECEIVING BODY OF WATER: Waccissa Springs
REMARKS:	COUNTY: Leon	LOCATION: Black Creek Upstream of CR158	FIELD ID/NAME: G/WA0072	

Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components Substrate Diversity 13	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 10 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 15	Greater than 30% major productive habitat present at site 20 19 18 17 16	16% to 30% major productive habitat, by aerial extent 15 14 13 12 11	6% to 15% major productive habitat 10 9 8 7 6	Less than 5% major productive habitat 5 4 3 2 1
Water Velocity 18 0.29 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 20 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 18 ----- Primary Score 64	Adequate number of stable pools (1-2 per 12 times width) and <25% of habitats affected by sand, silt, or algae. 20 19 18 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 20	Expected sinuosity given the stream width. No evidence of dredging or artificial straightening. No spoil banks. 20 19 18 17 16	Good sinuosity within old channelized area. Evidence of dredging in the past (>25 yrs) but mostly recovered. 15 14 13 12 11	Straightened with trapezoidal cross section, but has a small degree of sinuosity developed within channelized area. 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 10 Left Bank 10	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 5 Left Bank 10	Width of vegetation greater than 18 m 10 9	Width of vegetation >12 to 18m 8 7 6	Width of vegetation 6 to 12 m. human activities close to system 5 4	Less than 6 m of buffer zone due to intensive human activities 3 2 1
Riparian Zone Vegetation Quality Right Bank 10 Left Bank 10 ----- Secondary Score 75	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

TOTAL SCORE

Date: 6/26/18	Analyst: Blake Spencer	Signature: 
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DEP Form FD 9000-4 Stream/River Habitat Assessment Sketch Sheet



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

Location: Black Creek Upstream of CRISG

Date: 6/26/18

Sampler: Blake Spencer

100 m: Latitude 30.4733
Longitude -84.0553

0 m: Latitude 30.4739
Longitude -84.0544

Substrates: Code key, draw proportionate habitat abundance. %

	Snags	<u>6%</u>
	Roots/undercut banks	<u>6%</u>
	Leaf Packs (or mats)	<u>4%</u>
	Aquatic Macrophytes	<u>1%</u>
	Pools	total # observed = <u>3</u> # range expected = <u>3</u>

Average width 2.5 m

Average depth 0.2 m

Velocity measured at 30 meter mark.

WQ & chemistry taken at 10 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.

Plants observed / other notes:

Entered by: ~~6/26/18~~
QC by CM 6-26-18

FDEP FORM FD 9000-3: PHYSICAL/CHEMICAL CHARACTERIZATION FIELD SHEET

SAMPLE ID 78486 ORG ID 21FLWQA LATITUDE 30.472981
COUNTY Leon STORET # GIWA0072 LONGITUDE -84.057057
DATE 6/26/18 TIME 8:50 SAMPLING AGENCY FDEP Tallahassee
SITE NAME Black Creek Upstream of CR158
FIELD ID/NAME GIWA0072 RECEIVING BODY OF WATER Wacissa Springs

RIPARIAN ZONE / STREAM FEATURES 51,095,527 M², 12,625 Acres

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category):								Water		Landscape Development Intensity Index (LDI)	
Forest/Natural	Silviculture	Field/Pasture	Agricultural	Residential	Commercial	Industry	Other (Specify)				
<u>62</u>	<u>8</u>	<u>7</u>	<u>2</u>	<u>17</u>	<u>0.1</u>	<u>1</u>	<u>1</u>			<u>2.6</u>	
Local Watershed Erosion (select one): ☐ None ☒ Slight ☐ Moderate ☐ Heavy								Typical Width (m) Depth (m)/Velocity (m/sec) Transect			
Local Watershed NPS Pollution: ☒ No evidence ☐ Slight ☐ Moderate ☐ Heavy											
Width of Riparian Vegetation (m) on Each Buffer Side						Hydrologic Modification Score (per FT 3101)					
Left Bank: <u>>18m</u> Right Bank: <u>>18m</u>						<u>3-4</u>					
High Water Mark: <u>0.5</u> + <u>0.2</u> = <u>0.7</u>						Artificially Impounded					
(m) (above present water level) (present depth) (above bed)						☐ Yes ☒ No					
Artificially ☒ No ☐ Mostly recovered, more sinuous						Canopy Cover %					
Channelized: ☐ Some recovery ☐ Recent, severe						☐ 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 ☐
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SUBSTRATE TYPE

Assessment Tool: ☒ SCI ☒ RPS ☒ LVS

	☐ LCI	☐ BioRecon		INVERT	PERI
			% Coverage	# Times Sampled	# Times Sampled
Woody Debris (Snags)	<u>6</u>	<u>III</u>			
Undercut Banks / Roots	<u>6</u>	<u>III</u>			
Leaf Packs or Mat	<u>4</u>	<u>III</u>			
Aquatic Vegetation	<u>0.1</u>	<u>I</u>			
Rock or Shell Rubble..					
Sand.....	<u>83.9</u>	<u>IIII</u>			
Mud / Muck / Silt					
Other					
Other					

WATER QUALITY

Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat (%)	Cond. (UMHO/CM)	Salinity (PPT)	SECCHI (M)
Top: <u>0.1</u>	<u>25.46</u>	<u>5.85</u>	<u>6.17</u>	<u>75.4</u>	<u>33</u>	<u>0.01</u>	<u>0.2</u>
Mid:							☒ VOB
Bottom:							
Meter ID: <u>B10 #2</u>							<u>0.2</u>

Water Odors Normal ☒ Petroleum ☐
Sewage ☐ Chemical ☐ Other ☐

Water Sample Taken? ☒ Yes ☐ No
Sample Preserved? ☒ Yes ☐ No
Lot Number: 548085170 Exp: 3/26/19

Algae Sample Taken? ☐ Yes ☒ No
Sample Preserved? ☐ Yes ☐ No
Lot Number: NA Exp: NA

Water Surface Oils Normal ☒ Sheen ☐
Globs ☐ Slick ☐ Other ☐

Color Tannic ☒ Green (Algae) ☐
Clear ☐ Other (Specify) ☐

Clarity Clear ☒ Slightly Turbid ☐
Turbid ☐ Opaque ☐

System Type: Stream ☒ Lake ☐ Wetland ☐ Estuary ☐ Other(Specify) ☐

AMBIENT FIELD CONDITIONS / NOTES:

☒ The antecedent hydrologic conditions have been met to my best knowledge.

SAMPLING TEAM

Blake Spencer, Todd Risk

SIGNATURE:

[Signature]

DATE:

6/26/18

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Boldly "X" this box if there is qualified data on this name.

Meter ID: Biology #2

RQ: 05-14-18

Project: SMP

Notes: (1) Always wait for meter to stabilize before recording any readings.

(2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).

(3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Circle/Fill In: Lab Calibration or Calibration/Verification on Site _____

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification 6/25/18

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Blake Spencer	6/26/18	0730	23.16	8.546	8.55	100	57.4	—	P/F	L/F
ICV	Blake Spencer	6/26/18	0731	23.16	8.546	8.55	99.9	57.4	—	P/F	L/F
CCV	Blake Spencer	6/26/18	1117	27.35	7.912	7.92	99.9	59.4	—	P/F	L/F
CCV										P/F	L/F

DO Acceptance criteria from Table ± 0.3 mg/L.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

Optical: DO gain range 0.85 to 1.15; DO charge N/A.

Steady-state & Galvanic Sensors: DO Gain & Charge N/A.

Spec. Cond. FT 1200	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard μ hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	Blake Spencer	6/26/18	0734	171005A	10/2018	1000	1000	P/F	L/F
ICV	Blake Spencer	6/26/18	0735	171005B	10/2018	1000	1001	P/F	L/F
CCV	Blake Spencer	6/26/18	1117	180326A	04/2019	100	105	P/F	L/F
CCV								P/F	L/F

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Blake Spencer	6/26/18	0743	180326A	10/2019	7.0	7.00	31.7	P/F	L/F
Calibr.	Blake Spencer	6/26/18	0750	180326C	04/2019	4.0	4.00	203.2	P/F	L/F
Calibr.	Blake Spencer	6/26/18	0756	171005C	04/2019	10.0	9.99	-133.4	P/F	L/F
ICV	Blake Spencer	6/26/18	0759	171005C	04/2019	10.0	9.98	-133.4	P/F	L/F
CCV	Blake Spencer	6/26/18	1120	180326C	04/2019	4.0	3.99	204.5	P/F	L/F
CCV									P/F	L/F

pH Acceptance criteria ± 0.2 SU;

mV pH 7 Range 0 ± 50 ;

mV pH 4 Range +180 ± 50 ;

mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 101.7, slope from 4 to 7 171.5 (both must be between 165 and 180 mV)

Is meter equipped with depth sensor? Yes / No If yes, list date of last quarterly depth verification 6/26/18

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value meters	Pass / Fail	Lab / Field
Pressure mode in air	Blake Spencer	6/26/18	0800	0.00	0.00	P/F	L/F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS:

**Florida Department of Environmental Protection
Central Laboratory Submittal Form**

Customer: WAS-SECT

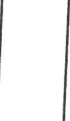
Project ID: SMP

Requester: Curtis Musson

Collected By:

Field Report Prepared By:

Sampling Agency:

Location		Black Creek		FILED/WIN ID		Sampling Agency: <u>FWP</u>	
Field ID		upsream of CR158				Bottle Group(s) (See pg 2)	
WIN/STORET #				GTWA00672		A, B	
Latitude		30.472861		Longitude		D	
Location		84.057057					
Field ID							
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Relinquished By:

Date/Time

Shipping Method

Number of Coolers Shipped:

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	/
Group: A	Bottle Type: CHLSUITE-W	BP-1L	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	/
Group: A	Bottle Type: ECOLI-18QT	P-250ML-WO-THI	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	/
Group: A	Bottle Type: W-E8321-DI W-E8321-MS	BG-500ML	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	/
Group: A	Bottle Type: W-ICP W-ICPMS	P-500ML	# of Bottles: 2	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	/
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	/
Group: A	Bottle Type: W-PO4-F	P-125ML	# of Bottles: 2	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	/
Group: B	Bottle Type: PCR-FILTER	QPCR-P-500ML	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	/
Group: C	Bottle Type: PCR-FILTER PCR-HF183	QPCR-P-500ML	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	0

Lot #: NA 7261120 Exp. 12/9/18

Lot #: 548085170 Exp. 3/26/19

Fillet Lot # 10827054

Group: D	Bottle Type: ALGAL_ID	PT-50ML	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab
Group: D	Bottle Type: MI-FW-QLDC	PJ-2L	# of Bottles: 4	Preservative:	Formalin	Enter Number of Bottles Sent to Lab

Cooler Packing Worksheet for Request: RQ-2018-05-14-18

Black And Quincy Creek SCI

Ship Cooler On: 5/10/2018

Customer/Project: WAS-SECT/SMP

Assigned To: SHAIK_A

Requester: Curtis Musson

Priority: 3

850-245-8453

2600 Blair Stone Rd

Tallahassee, FL 32399

Attn: Curtis Musson

Comments:

No preservatives needed.

Group A: Freshwater Kit, Metals, Tracers, E.coli x2

Group B: PCR-FILTER x1

Group C: PCR-FILTER, PCR-HF183 x1

Group D: SCI, Algal_ID x2

Packing Notes:

No FedEx labels

No Trash Bags

Requested Analyses:

Bottle Group: A

of Sites: 2

Container ID: P-1L

Qty: 2

Preservation: ICE

Lot # 00071006

Description: Plastic Bottle 1L

Analysis

ALKALINITY

TURBIDITY

W-CL-IC

W-COLOR

W-F

W-SO4-IC

W-TDS

W-TSS

Description

Alkalinity in aqueous matrices as mg CaCO3/L

Turbidity in aqueous matrices

Chloride in aqueous matrices

True Color measured at 450 nm

Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)

Sulfate in aqueous matrices

Total Dissolved Solids in aqueous matrices

Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample

Container ID: BP-1L

Qty: 2

Preservation: ICE

Lot # 1223623

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry

Container ID: P-250ML-WO-THI

Qty: 2 Preservation: ICE

Lot # L18005

Description:

Analysis

ECOLI-18QT

Description

Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems

Container ID: BG-500ML

Qty: 2 Preservation: ICE

Lot # 0068622

Description: Brown Glass Bottle 500ML

Affix BLUE dot to container.

Analysis

W-E8321-DI

W-E8321-MS

Description

Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

Container ID: P-500ML

Qty: 2 Preservation: HNO3

Lot # 0067598

Description: Plastic Bottle 500 mL

Affix RED nitric acid dot to container.

Analysis

W-ICP

W-ICPMS

Description

Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects

Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects

Container ID: P-500ML

Qty: 2 Preservation: ICE And H2SO4

Lot # 0067590

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

Analysis

W-NH3

W-NO2NO3

W-S-A-TP

W-TKN

W-TOC

Description

Ammonia in aqueous matrices as mg N/L

Nitrite/Nitrate in aqueous matrices as mg N/L

Total Phosphorus in aqueous matrices as mg P/L

Total Kjeldahl Nitrogen in aqueous matrices

Nonpurgeable Organic Carbon in aqueous matrices

Container ID: P-125ML

Qty: 2 Preservation: FILTER-ICE

Lot # 0070886

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Bottle Group: B

of Sites: 1

Container ID: QPCR-P-500ML
Description: 500ml Sterile Nalgene

Qty: 1 Preservation: ICE

Lot # 580 70172

Analysis
PCR-FILTER

Description
Preparation of Samples by Filtration and held for qPCR Analysis

Bottle Group: C

of Sites: 1

Container ID: QPCR-P-500ML
Description: 500ml Sterile Nalgene

Qty: 1 Preservation: ICE

Lot # 580 70172

Analysis
PCR-FILTER
PCR-HF183

Description
Preparation of Samples by Filtration and held for qPCR Analysis
Detection and quantification of human-specific HF183 Bacteroides genetic marker with
quantitative polymerase chain reaction

Bottle Group: D

of Sites: 2

Container ID: PT-50ML
Description: Plastic Tube 50 mL

Qty: 2 Preservation: ICE

Lot # 63 775003

Analysis
ALGAL_ID

Description
Qualitative assessment of algal taxa present without counts

Container ID: PJ-2L
Description: Plastic Jar 2 L

Qty: 4 Preservation: Formalin

Lot # B14408 hsp

Analysis
MI-FW-QLDC

Description
No. Taxa of FW macroinverts, qual samp, 20 dipnets.

Cooler Packed By:

HP

Number of Coolers:

2

Date:

5-8-18

Kit must also include:

- ☒ Field Sheets
- ☒ Temperature Control Bottle
- ☒ FedEx Bills, if applicable
- ☒ Plastic Bags/Zip Ties
- ☒ Acid Labels (sets of 24)

If Preservation Included:

ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____

PLEASE RETURN ALL COOLERS FOR RQ-2018-05-14-18