



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

Data Qualified?

Yes / No

January 2018

WIN Station Name: Black Creek 1/4 mile Above Big Branch Date: 04/19/2018
(mm/dd/yyyy)

WIN/ Field ID: 20030437 WBID: 2386A Latitude: 30.1164
(Decimal Degrees)

County: CLAY ORG ID: 21FLA Longitude: -81.905845
(Decimal Degrees)

Receiving Body of Water: LSTR RQ-2018- 02-12-39

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
J Parrish						X	X		
P. O'Connor					X	X	X	X	X

Sampling Equipment		
☒ Sample Container	☐ Van Dorn	☐ Pole
☐ Carboy	☐ Syringe	
☐ Dipper	☐ Other	
Depth Measured with <u>YSF #3</u>		
Equipment ID <u>040674</u>		

Collection Method		
☒ Wading	☐ Canoe/Kayak	
☐ From Shore	☐ Electric Motor	
☐ Other	☐ Gasoline Motor	

Water Level: Dry/ Pooled/ Low / Normal / High / Flooded Meter ID# YSF #3 Matrix: Fresh / Marine / DI

Photos: Yes ☒ No ☐ Flow: No Flow / Interstitial / Flowing / NA Tide: Rising/ Falling/ Slack/ NA Tide Times: High NA Low NA

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	1035	0.6	0.3	0.65	8.45	88.9	7.2	0.03	86	17.8
CEN										

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

SBIO ID Numbers: SBIO-ID: HA-ID: RPS-ID: Macrophyte-ID: LIMS#:

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	SA7341020	12-07-18	☒ <2
Metals	☒ W-ICPMS ☒ W-ICP	☒ Ice ☒ HNO3	NA7261120	09-18-18	☒ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice	K7EA12511		
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-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-SUC-AA-R ☒ W-UHERB-AA ☒ W-AHERB-AA	☒ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-UHERB-AA ☐ W-AHERB-AA ☐ W-CARB-AA ☐ W-PCL-SQ-R ☐ W-PYR-AA-R ☐ W-GLYPH ☐ W-SUC-AA-R	☐ Ice ☐ Other			

Notes: WIN /Field ID:

20030437

Black Cr. North Prong 1/4Above Big Branch

Signature: B - P - Date: 4/19/18

Enter Field Parameters, Verify Station ID In LIMS DMT: JP 4/19/18 QC Station ID, Field Parameters In LIMS DMT: BD 4/19/18
(Initials/Date) (Initials/Date)

Scan/Save Field Sheets BD 4/19/18 Migrate Data to WIN: BD 4/19/18 Verify Data In WIN: BD 4/19/18
(Initials/Date) (Initials/Date) (Initials/Date)

SCI References

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

last revised Jan 25 2018

Customer: NE-DIST
Project ID: SMP

Requester: Jeremy M. Parrish
Collected By: ITP

Field Report Prepared By

Sampling Agency:

Severyn Parisi
Food ne

MIN /Field ID:



20030437

Black Cr. North Prong 1/4Above Big Branch

Loc#		WIN /Field ID:		Barcode		20030437		Sampling Agency:		FOE/NE											
Field#		Black Cr. North Prong 1/4 Above Big Branch		Matrix (Type, e.g., Salt, Fresh, etc)		Date 4/9/18		Time 1035		Eastern Central Date Time		Bottle Group(s)									
WIN		Latitude		Temp (C)		pH		Sample Depth		Diss. Oxygen		Total Res. Chlorine		(See pg 2)							
Location		☐ dd ☐ dms		Longitude		Salinity (ppt)		0.03		Comments		7.2		8.45		4.1B					
Field ID		Collection (comp begin or grab)		Matrix (Type, e.g., Salt, Fresh, etc)		Date		Time		Eastern Central Date Time		Composite end		Bottle Group(s)							
WIN/STORET #		Temp (C)		pH		Sample Depth		Diss. Oxygen		Total Res. Chlorine		Bottle Group(s)									
Latitude		☐ dd ☐ dms		Longitude		Salinity (ppt)		Comments		Temp (C)		pH		Sample Depth		Diss. Oxygen		Total Res. Chlorine		Bottle Group(s)	
Location		☐ dd ☐ dms		Longitude		Salinity (ppt)		Comments		Temp (C)		pH		Sample Depth		Diss. Oxygen		Total Res. Chlorine		Bottle Group(s)	
Field ID		Collection (comp begin or grab)		Matrix (Type, e.g., Salt, Fresh, etc)		Date		Time		Eastern Central Date Time		Composite end		Bottle Group(s)							
WIN/STORET #		Temp (C)		pH		Sample Depth		Diss. Oxygen		Total Res. Chlorine		Bottle Group(s)									
Latitude		☐ dd ☐ dms		Longitude		Salinity (ppt)		Comments		Temp (C)		pH		Sample Depth		Diss. Oxygen		Total Res. Chlorine		Bottle Group(s)	
Location		☐ dd ☐ dms		Longitude		Salinity (ppt)		Comments		Temp (C)		pH		Sample Depth		Diss. Oxygen		Total Res. Chlorine		Bottle Group(s)	
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Latitude		☐ dd ☐ dms		Longitude		Salinity (ppt)		Comments		Temp (C)		pH		Sample Depth		Diss. Oxygen		Total Res. Chlorine		Bottle Group(s)	
Location		☐ dd ☐ dms		Longitude		Salinity (ppt)		Comments		Temp (C)		pH		Sample Depth		Diss. Oxygen		Total Res. Chlorine		Bottle Group(s)	
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WIN/STORET #		Temp (C)		pH		Sample Depth		Diss. Oxygen		Total Res. Chlorine		Bottle Group(s)									
Latitude		☐ dd ☐ dms		Longitude		Salinity (ppt)		Comments		Temp (C)		pH		Sample Depth		Diss. Oxygen		Total Res. Chlorine		Bottle Group(s)	
Location		☐ dd ☐ dms		Longitude		Salinity (ppt)		Comments		Temp (C)		pH		Sample Depth		Diss. Oxygen		Total Res. Chlorine		Bottle Group(s)	
Field ID		Collection (comp begin or grab)		Matrix (Type, e.g., Salt, Fresh, etc)		Date		Time		Eastern Central Date Time		Composite end		Bottle Group(s)							
WIN/STORET #		Temp (C)		pH		Sample Depth		Diss. Oxygen		Total Res. Chlorine		Bottle Group(s)									
Latitude		☐ dd ☐ dms		Longitude		Salinity (ppt)		Comments		Temp (C)		pH		Sample Depth		Diss. Oxygen		Total Res. Chlorine		Bottle Group(s)	
Location		☐ dd ☐ dms		Longitude		Salinity (ppt)		Comments		Temp (C)		pH		Sample Depth		Diss. Oxygen		Total Res. Chlorine		Bottle Group(s)	
Field ID		Collection (comp begin or grab)		Matrix (Type, e.g., Salt, Fresh, etc)		Date		Time		Eastern Central Date Time		Composite end		Bottle Group(s)							
WIN/STORET #		Temp (C)		pH		Sample Depth		Diss. Oxygen		Total Res. Chlorine		Bottle Group(s)									
Latitude		☐ dd ☐ dms		Longitude		Salinity (ppt)		Comments		Temp (C)		pH		Sample Depth		Diss. Oxygen		Total Res. Chlorine		Bottle Group(s)	
Location		☐ dd ☐ dms		Longitude		Salinity (ppt)		Comments		Temp (C)		pH		Sample Depth		Diss. Oxygen		Total Res. Chlorine		Bottle Group(s)	
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WIN/STORET #		Temp (C)		pH		Sample Depth		Diss. Oxygen		Total Res. Chlorine		Bottle Group(s)									
Latitude		☐ dd ☐ dms		Longitude		Salinity (ppt)		Comments		Temp (C)		pH		Sample Depth		Diss. Oxygen		Total Res. Chlorine		Bottle Group(s)	
Location		☐ dd ☐ dms		Longitude		Salinity (ppt)		Comments		Temp (C)		pH		Sample Depth		Diss. Oxygen		Total Res. Chlorine		Bottle Group(s)	
Field ID		Collection (comp begin or grab)		Matrix (Type, e.g., Salt, Fresh, etc)		Date		Time		Eastern Central Date Time		Composite end		Bottle Group(s)							
WIN/STORET #		Temp (C)		pH		Sample Depth		Diss. Oxygen		Total Res. Chlorine		Bottle Group(s)									
Latitude		☐ dd ☐ dms		Longitude		Salinity (ppt)		Comments		Temp (C)		pH		Sample Depth		Diss. Oxygen		Total Res. Chlorine		Bottle Group(s)	
Location		☐ dd ☐ dms		Longitude		Salinity (ppt)		Comments		Temp (C)		pH		Sample Depth		Diss. Oxygen		Total Res. Chlorine		Bottle Group(s)	
Field ID		Collection (comp begin or grab)		Matrix (Type, e.g., Salt, Fresh, etc)		Date		Time		Eastern Central Date Time		Composite end		Bottle							

Group: A	Bottle Type: ALKALINITY TURBIDITY W-BR-IC 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	1
Group: A	Bottle Type: CHLSUITE-W	BP-1L	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
Group: A	Bottle Type: NE-ALS-ECQ	P-250ML-WI-THI	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1 to ALS JAX
Group: A	Bottle Type: PCR-BACR PCR-FILTER PCR-GFD PCR-HF183	QPCR-P-250ML	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
Group: A	Bottle Type: W-AHERB-AA W-SUC-AA-R W-UHERB-AA	BG-1L	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
Group: A	Bottle Type: W-ICP	P-500ML	# of Bottles: 2	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	1
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	1
Group: A	Bottle Type: W-PO4-F	P-125ML	# of Bottles: 2	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	1

Group: B

Bottle Type:
MI-FW-QLDC

PJ-2L

of Bottles: 4

Preservative:

Formalin

Enter Number of Bottles Sent to Lab

2

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

78315

SAMPLING AGENCY: NE ROC		STORET STATION NUMBER: 20030437	DATE (MM/DD/YY): 04-09-18	RECEIVING BODY OF WATER: LSJR
REMARKS:	COUNTY: CLAY	LOCATION: Black Creek 1/4 mile Above Bq Branch		FIELD ID/NAME:

Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components	Four or more major productive habitats present [snags, tree roots, aquatic vegetation, leaf packs (partially decayed), rock]	Three major productive habitats present. Adequate habitat. Some substrates may be new fall (fresh leaves or snags)	Two major productive habitats present. Less than desirable habitat, frequently disturbed or removed	One or less major productive habitat. Lack of habitat is obvious, substrates unstable or smothered
Substrate Diversity <u>10-11</u>	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Substrate Availability <u>5</u>	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 <u>1.920</u>	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 <u>15</u> Primary Score <u>51</u>	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 <u>20</u>	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 <u>5</u> Left Bank <u>5</u>	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>10</u> Left Bank <u>10</u>	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 <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

TOTAL SCORE

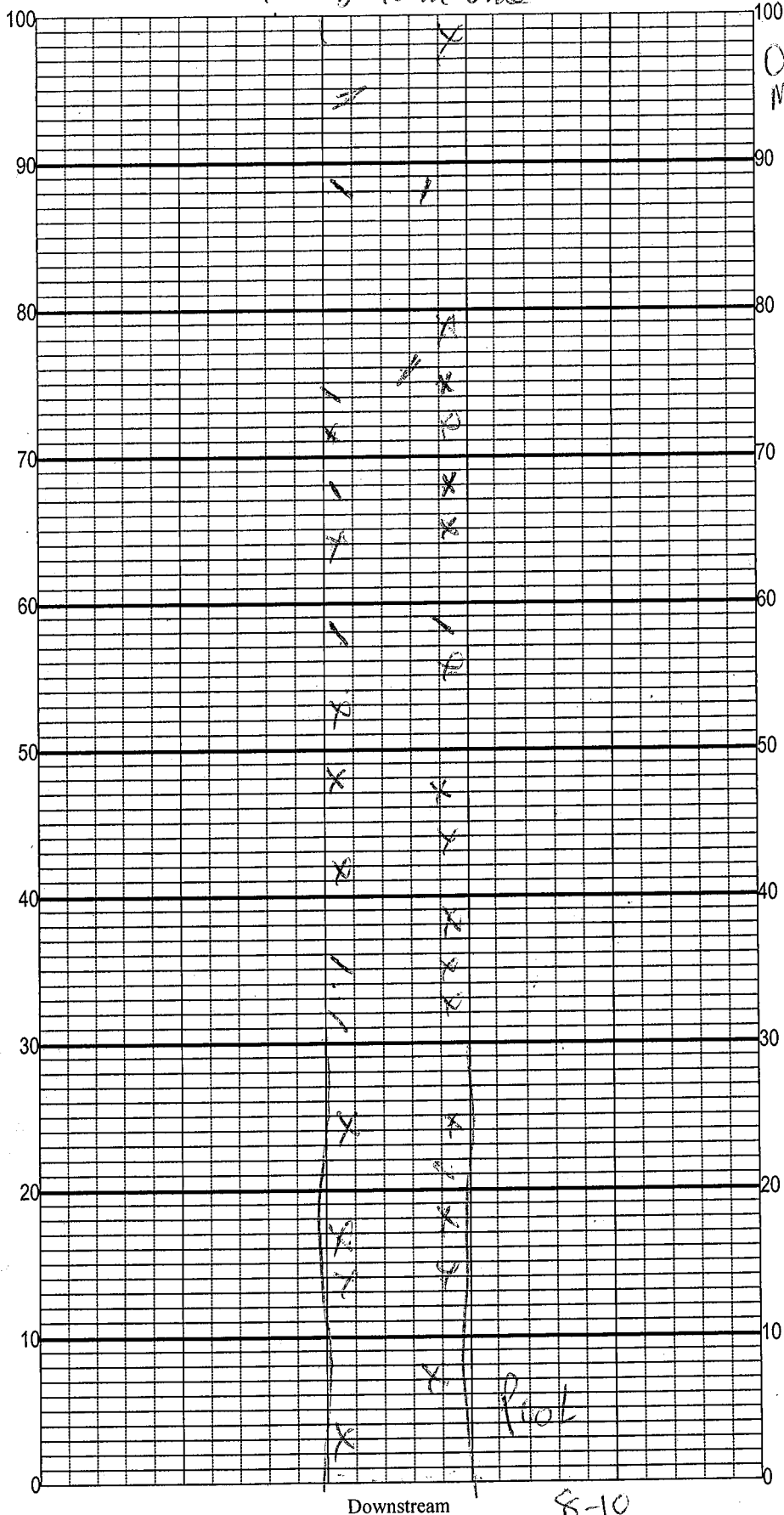
121

Date: 04-09-18	Analyst: PD Connor	Signature: [Signature]
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DEP Form FD 9000-4 Stream/River Habitat Assessment Sketch Sheet

8-10 m V.D.C.

Left Bank



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

Black Creek

Location: 1/4 mile Above Big Br.

Date: 04-09-18

Sampler: O'Connor

100 m: Latitude _____
Longitude _____

0 m: Latitude _____
Longitude _____

Substrates: Code key, draw proportionate habitat abundance. %

☒	Snags	_____
☒	Roots/undercut banks	_____
☐	Leaf Packs (or mats)	_____
☐	Aquatic Macrophytes	_____
☐		_____
☐		_____
☐	Pools	total # observed = _____ # range expected = _____

Average width _____ m

Average depth _____ m

Velocity measured at _____ meter mark.

WQ & chemistry taken at _____ 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:

<2 M of Macrophytes was observed while doing the LVS? YES or NO

16 20% Root
14 20% SNAGS
11% Roc

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

78315

SAMPLE ID _____ ORG ID 21FLA LATITUDE _____
 COUNTY _____ STORET # 20030437 LONGITUDE _____
 DATE 4/9/18 TIME 1035 SAMPLING AGENCY FDegree ROC
 SITE NAME W. Bl. Cr. abv. Big Branch
 FIELD ID/NAME _____ RECEIVING BODY OF WATER Black creek

RIPARIAN ZONE / STREAM FEATURES

Meter ID: Quanta YSP-43

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category): Forest/Natural <u>100</u> Silviculture _____ Field/Pasture _____ Agricultural _____ Residential _____ Commercial _____ Industry _____ Other (Specify) _____								Landscape Development Intensity Index (LDI) _____
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 _____ m wide _____ m/s _____ m/s _____ m/s _____ m deep _____ m deep _____ m deep				
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank: <u>>18m</u> Right Bank: <u>>18m</u>				Hydrologic Modification Score (per FT 3101) _____				
High Water Mark: <u>3</u> + <u>0.6</u> = <u>3.6</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 ☐
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SUBSTRATE TYPE

Assessment Tool: ☒ SCI ☐ RPS ☐ LVS
☐ LCI ☐ BioRecon

	% Coverage	INVERT # Times Sampled	PERI # Times Sampled
Woody Debris (Snags)	<u>2</u>	<u>5</u>	
Undercut Banks / Roots	<u>2</u>	<u>5</u>	
Leaf Packs or Mat			
Aquatic Vegetation			
Rock or Shell Rubble..	<u>4</u>	<u>5</u>	
Sand.....	<u>50</u>	<u>3</u>	
Mud / Muck / Silt			
Other <u>limestone</u>	<u>45</u>	<u>2</u>	
Other			

WATER QUALITY

	Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat (%)	Cond. (UMHO/CM)	Salinity (PPT)	SECCHI (M)
Top:								
Mid:	<u>0.3</u>	<u>17.8</u>	<u>7.2</u>	<u>8.45</u>	<u>88.9</u>	<u>86</u>	<u>0.03</u>	<u>0.65</u>
Bottom								<u>0.6</u>

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

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

Water Sample Taken? ☒ Yes ☐ No
 Sample Preserved? ☒ Yes ☐ No

Lot Number: SA1341020 Exp: 12-01-18

Algae Sample Taken? ☐ Yes ☒ No
 Sample Preserved? ☐ Yes ☐ No

Lot Number: _____ Exp: _____

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

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

Clarity Clear ☐ Slightly Turbid ☒
 Turbid ☐ Opaque ☐

ABUNDANCE

	Not Obs.	Rare	Common	Abundant
Periphyton:	☐	☐	☒	☐
Fish:	☐	☐	☒	☐
Aquatic Plants:	☒	☐	☐	☐
Iron/Sulfur Bacteria:	☐	☒	☐	☐

AMBIENT FIELD CONDITIONS / NOTES:

Hydrologic Disturbance Scoring ☒ 1-2 ☐ 3-4 ☐ 5-6 ☐ 7-8 ☐ 9-10

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

SAMPLING TEAM

Jo Parrish, R. O'Conor

SIGNATURE

John O'Conor

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: Black cc. 1/4 mi. Big Branch County: Clay Date: 4/9/18 Investigators: 20030437 J. Parnish

STORET Station Number: 20030437

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	60	1	4	N	96
	2	N	N			2	N	N	
	3	X	X			3	N	N	
	4	X				4	X	N	
	5	X				5	↓	N	
	6	X				6	↓	N	
	7	X				7	N	N	
	8	N	N			8	N	N	
	9	N	N			9	N	N	
10	1	N	N	70	70	1	N	N	40
	2	N	N			2	4	N	
	3	X	X			3	4	N	
	4	X				4	4	N	
	5	X				5	N	N	
	6	X				6			
	7	N	N			7			
	8	N	N			8			
	9	N	N			9			
20	1	N	N	80	80	1	N	N	8
	2					2	N	N	
	3					3	N	N	
	4					4	4	N	
	5					5	N	N	
	6					6	4	N	
	7	4	N			7	N	N	
	8	4	N			8	N	N	
	9	N	N			9	N	N	
30	1	N	N	90	90	1	N	N	25
	2	N	N			2	N	N	
	3	N	N			3	X	X	
	4	5				4			
	5	4				5			
	6	N	N			6			
	7	4	N			7	↓	N	
	8	4	N			8	N	N	
	9	4	N			9	N	N	
40	1	N	N	100	100	1	N	N	23
	2	N	N			2	N	N	
	3					3	X	X	
	4					4			
	5					5			
	6					6			
	7	N	N			7			
	8	N	N			8	N	N	
	9	N	N			9	N	N	
50	1	N	N	80	80	1	N	N	
	2	N	N			2	N	N	
	3	X	X			3			
	4					4			
	5					5			
	6					6			
	7	X	X			7			
	8	N	N			8	N	N	
	9	4	N			9	N	N	

Secchi depth
Estimated?

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

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

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%.

Waterbody: Black Cr. 1/4 mi. S of Birch	Date: 4/9/18	County: Clay	Storet Number: 20030437
Analyst: J. Parnish	Signature: J. Parnish		

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.

Revision Date: March 1, 2014 .