



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2018

Data Qualified?

Yes / No

WIN Station Name:

Mill Cr 1000ft N of SR 209 off CR 209A

Date: 6/21/2018

WIN/ Field ID:

20030573

WBID:

2423

Latitude:

30.06594

County:

clay

ORG ID:

21FLA

Longitude:

81.76694

Receiving Body of Water:

Black Cr

RQ-2018-

Sampling Team Members						WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Plamsh P. O'Connor										

Sampling Equipment			
☒ Sample Container	☐ Van Dorn	☐ Pole	
☐ Carboy	☐ Syringe		
☐ Dipper	☐ Other		
Depth Measured with <u>YSI 71</u>			
Equipment ID <u>Ortho 49</u>			

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

Water Level: Dry / Pooled / Low / Normal / High / Flooded				Meter ID#	Matrix: Fresh / Marine / DI
Low				YSI 71	Fresh

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

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	9:10	0.6	0.3	0.65	6.14	74.6	6.87	0.07	147	25.2
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	7341020	12/7/18	☒ <2
Metals	☒ W-ICPMS ☒ W-ICP	☒ Ice ☒ HNO3			☐ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice	127HA24559		
Chlorophyll	☒ CHLSUITE-W	☒ Ice			
Physical/Aggregate (Fresh)	☒ Alkalinity / ☒ W-F / ☒ W-TSS / ☒ TURBIDITY / ☒ W-CHC / ☒ 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:

Field ID:

Win ID:

20030573

Mill Log Cr Approx 1000ft N of SR 209 off CR 209A

Signature:

B. P.

Date:

7/12/18

Enter Field Parameters, Verify Station ID in LIMS DMT:

7/12/18

QC Station ID, Field Parameters in LIMS DMT:

BT 7/12/18

Scan/Save Field Sheets

BT 7/12/18

Migrate Data to WIN:

Verify Data in WIN:

(Initials/Date)

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

78473

SAMPLING AGENCY: NE ROC		STORET STATION NUMBER: 20030573	DATE (MM/DD/YY): 06-21-18	RECEIVING BODY OF WATER: Black Cr
REMARKS:	COUNTY: CIA9	LOCATION: mill Cr 1000 ft N. of 209A		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 9	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Substrate Availability 9	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 13	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 13	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
Primary Score 44	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Secondary Habitat Components	Expected sinuosity given the stream width. No evidence of dredging or artificial straightening. No spoil banks.	Good sinuosity within old channelized area. Evidence of dredging in the past (>25 yrs) but mostly recovered.	Straightened with trapezoidal cross section, but has a small degree of sinuosity developed within channelized area.	Straightened or engineered by dredging, has trapezoidal or box cut cross section, lacks required pools. May have spoil banks.
Artificial Channelization 18	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Bank Stability	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.	Only meets 2 of the 3 requirements for optimal bank stability.	Only meets 1 of the 3 requirements for optimal bank stability.	Bankfull < 60% of bank height. Slope of bank > 60°. Bankfull is below the root zone with raw, eroded areas.
Right Bank 8 Left Bank 7	10 9	8 7 6	5 4	3 2 1
Riparian Buffer Zone Width	Width of vegetation greater than 18 m	Width of vegetation >12 to 18m	Width of vegetation 6 to 12 m. human activities close to system	Less than 6 m of buffer zone due to intensive human activities
Right Bank 9 Left Bank 6	10 9	8 7 6	5 4	3 2 1
Riparian Zone Vegetation Quality	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.	>50% to 80% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Some disruption in community observed.	25% to 50% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Disruption obvious.	Less than 25% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions).
Right Bank 8 Left Bank 6	10 9	8 7 6	5 4	3 2 1
Secondary Score 62	10 9	8 7 6	5 4	3 2 1
TOTAL SCORE 106				

Date: 6/21/18	Analyst: Jerry Pomeroy	Signature: Jerry Pomeroy
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209A

Plants observed / other notes:

<2 M of Macrophytes was observed while doing the LVS? YES or NO ~15m

$$\text{snag} = 4 + 2 + 1.5 + 1 + 1 \quad 10.5\%$$

Roof = $0.75 \times 0.5 + 0.5 \times 2.5 = 1.625 \text{ m}$

0.15

2m wide

Revision Date: March 1, 2014

4 = 2%
6 = 3%

62-160.800, F.A.C

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

Waterbody: Mill Cr 1000 ft. N of SR200 Date: _____
Analyst: _____

Storet Number: 20030573

Signature: _____

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.

[illegible]

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

SAMPLE ID _____ ORG ID 21FLA LATITUDE _____
 COUNTY CLAY STORET # 20030573 LONGITUDE _____
 DATE 06-21-18 TIME _____ SAMPLING AGENCY DEAR NED ROC
 SITE NAME Mill Cr 1000 ft. N. of 209A
 FIELD ID/NAME _____ RECEIVING BODY OF WATER Black Creek

RIPARIAN ZONE / STREAM FEATURES

Meter ID: _____

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category):								Landscape Development Intensity Index (LDI)
Forest/Natural	Silviculture	Field/Pasture	Agricultural	Residential	Commercial	Industry	Other (Specify)	
<u>40</u>				<u>10</u>		<u>10</u>	<u>40</u>	
Local Watershed Erosion (select one): ☐ None ☐ Slight ☒ Moderate ☐ Heavy								Typical Width (m) Depth (m)/Velocity (m/sec) Transect 2.1 m wide
Local Watershed NPS Pollution: ☐ No evidence ☐ Slight ☒ Moderate ☐ Heavy								
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank: <u>12</u> Right Bank: <u>18</u>				Hydrologic Modification Score (per FT 3101) <u>2.9</u>				
High Water Mark: <u>1.4</u> + <u>0.6</u> = <u>2.0</u> Artificially Impounded (m) (above present water level) (present depth) (above bed) ☐ 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 <table border="1"> <thead> <tr> <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> <th>SECCHI (M)</th> </tr> </thead> <tbody> <tr> <td>Top:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.65</td> </tr> <tr> <td>Mid:</td> <td>0.3</td> <td>25.2</td> <td>6.87</td> <td>6.14</td> <td>74.6</td> <td>147</td> <td>0.07</td> </tr> <tr> <td>Bottom:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.6</td> </tr> </tbody> </table>						Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat (%)	Cond. (UMHO/CM)	Salinity (PPT)	SECCHI (M)	Top:							0.65	Mid:	0.3	25.2	6.87	6.14	74.6	147	0.07	Bottom:							0.6
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Mid:	0.3	25.2	6.87	6.14	74.6	147	0.07																																	
Bottom:							0.6																																	
Woody Debris (Snags) <u>6.5</u> <u>7</u> <u></u> Undercut Banks / Roots <u>3.5</u> <u>7</u> <u></u> Leaf Packs or Mat <u></u> <u></u> <u></u> Aquatic Vegetation <u></u> <u></u> <u></u> Rock or Shell Rubble <u></u> <u></u> <u></u> Sand <u>7.8</u> <u>6</u> <u></u> Mud / Muck / Silt <u></u> <u></u> <u></u> Other <u></u> <u></u> <u></u> Other <u></u> <u></u> <u></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: _____ Exp: _____			Water Surface Oils Normal ☒ Sheen ☐ Globbs ☐ Slick ☐ Other ☐																																		
			Algae Sample Taken? ☐ Yes ☒ No Sample Preserved? ☐ Yes ☐ No Lot Number: _____ Exp: _____			Color Tannic ☒ Green (Algae) ☐ Clear ☐ Other (Specify) ☐																																		
ABUNDANCE <table border="1"> <thead> <tr> <th></th> <th>Not Obs.</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>Fish:</td> <td>☐</td> <td>☐</td> <td>☒</td> <td>☐</td> </tr> <tr> <td>Aquatic Plants:</td> <td>☐</td> <td>☒</td> <td>☐</td> <td>☐</td> </tr> <tr> <td>Iron/Sulfur Bacteria:</td> <td>☐</td> <td>☐</td> <td>☐</td> <td>☒</td> </tr> </tbody> </table>				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.												
	Not Obs.	Rare	Common	Abundant																																				
Periphyton:	☒	☐	☐	☐																																				
Fish:	☐	☐	☒	☐																																				
Aquatic Plants:	☐	☒	☐	☐																																				
Iron/Sulfur Bacteria:	☐	☐	☐	☒																																				
SAMPLING TEAM <u>J. Parrish, P O'Connor</u>			SIGNATURE: _____																																					

N

74473

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: Mill Creek 1000 ft N. of
209A

County: CLAY

Date: 06-21-18

Investigators: J. Yarnish, P. O'Brien

STORET Station Number:

2003 0573

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					2	N			
	3					3	N			
	4					4				
	5			96		5				96
	6					6				
	7					7				
	8					8				
	9					9				
10	1	N	N		70	1	N	N		
	2					2				
	3					3				
	4					4				96
	5			96		5				
	6					6				
	7					7				
	8					8				
	9					9				
20	1	N	N		80	1	N	N		
	2	N	N			2	N	N		
	3	N	N			3	X	X		
	4			96		4	X	X		
	5			42-90		5	X	X		96
	6					6	X	X		
	7					7	N	N		
	8					8	N	N		
	9					9	N	N		
30	1	N	N		90	1	N	N		
	2					2				
	3					3				
	4					4				96
	5			96		5				
	6					6				
	7					7				
	8					8				
	9					9				
40	1	N	N		100	1	N	N		
	2	N	N			2				
	3	N	N			3				
	4					4				96
	5			96		5				
	6					6				
	7					7				
	8					8				
	9					9				
50	1	N	N			1				
	2	N	N			2				
	3	N	N			3				
	4					4				
	5			96		5				
	6					6				
	7					7				
	8					8				
	9					9				

Secchi depth 0.69
Estimated?

points ranked 4-6 0
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%.

last revised Jan 25 2018

P. O'Connor

DEAR WED BO

Location		Field ID:	Barcode		
		Win ID:	20030573		
WIN/STORE:		Mill Log Cr Approx 1000ft N of SR 209 off CR 209A			
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms		
Field ID:	Black Cr Down New Fla Inc				
Win ID:	20030304				
WIN/ST:					
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms		
Location					
Field ID					
WIN/STORE #					
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms		
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Field ID					
WIN/STORE #					
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Location					
Field ID					
WIN/STORE #					
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐		

Group: A	Bottle Type:	P-1L	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
	ALKALINITY						
	TURBIDITY						
	W-CL-IC						
	W-COLOR						
	W-F						
	W-SO4-IC						
	W-TDS						
	W-TSS						
Group: A	Bottle Type:	BP-1L	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
	CHLSUITE-W						
Group: A	Bottle Type:	P-250ML-WO-THI	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2 to 4 L's JAY
	NE-ALS-ECQ						
Group: A	Bottle Type:	P-500ML	# of Bottles: 3	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	2
	W-ICP						
	W-ICPMS						
Group: A	Bottle Type:	P-500ML	# of Bottles: 3	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	2
	W-NH3						
	W-NO2NO3						
	W-S-A-TP						
	W-TKN						
	W-TOC						
Group: A	Bottle Type:	P-125ML	# of Bottles: 3	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	2
	W-PO4-F						
Group: B	Bottle Type:	PJ-2L	# of Bottles: 6	Preservative:	Formalin	Enter Number of Bottles Sent to Lab	No 245
	MI-FW-QLDC						

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

SIR#

9143 Phillips Highway, Ste 200 • Jacksonville, FL 32256 (904) 739-2277 • 800-695-7222 x06 • FAX (904) 739-2011

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CAS Contract

Project Name Solite		Project Number RA-2018-06-18-38		ANALYSIS REQUESTED (Include Method Number and Container Preservative)									
Project Manager J. Parrish		Email Address		PRESERVATIVE									
Company/Address DEAR NED ROC 8800 BAYMEADOWS WAY West JAX FL 32256													
Phone #		FAX #											
Sampler's Signature Jeramy Parrish		Sampler's Printed Name Jeramy Parrish											
CLIENT SAMPLE ID		LAB ID		DATE		SAMPLING TIME		MATRIX					
20030573				06-21-18		9:10		SW					
20030572						9:40							
20030304						12:45							
SPECIAL INSTRUCTIONS/COMMENTS													
TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) _____ STANDARD _____ REQUESTED FAX DATE _____ REQUESTED REPORT DATE _____													
REPORT REQUIREMENTS I. Results Only _____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required) _____ III. Results + QC and Calibration Summaries _____ IV. Data Validation Report with Raw Data _____ V. Specialized Forms / Custom Report _____ Extra Yes _____ No _____													
INVOICE INFORMATION													
PO # _____ BILL TO: _____ RECEIVED BY _____													
SAMPLE RECEIPT: CONDITION/COOLER TEMP:				CUSTODY SEALS: Y N				RECEIVED BY					
RELINQUISHED BY Patrick O'Brien				RECEIVED BY Benjamin Brax				RELINQUISHED BY					
Printed Name DEAR NED ROC				Printed Name				Printed Name					
Firm ALS				Firm				Firm					
Date/Time 06-21-18 15:10				Date/Time 06/21/18 3:12				Date/Time					