



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
WATER QUALITY MONITORING PROGRAM FIELD SHEET

WIN / Field ID:



20030089

January 2018

Data Qualified?

Yes / No

BLUES CREEK AT NW 71ST STREET,
GAINESVILLE 2/28/2018

Date: 2/28/2018
(mm/dd/yyyy)

WBID: 3682

Latitude: 29.71804
(Decimal Degrees)

County:

Alachua

ORG ID: 21FLA

Longitude: 82.41834
(Decimal Degrees)

Receiving Body of Water:

RQ-2018-02-26-23

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment		
N. Frederick B. Davis					☒	☒	☒	☒	☒	☒ Sample Container	☐ Van Dorn	☐ Pole
										☐ Carboy	☐ Syringe	
										☐ Dipper	☐ Other	
Depth Measured with								Equipment ID			YSI #3 01411017	
Collection Method												
☒ Wading					☐ Canoe/Kayak							
☐ From Shore					☐ Electric Motor							
☐ Other					☐ Gasoline Motor							

Water Level: Dry/ Pooled/ Low / Normal / High / Flooded
Photos: Yes No Flow: No Flow / Intestinal / Flowing / NA
Meter ID# YSI #3 Matrix: Fresh Marine/ DI
Tide: Rising/ Falling/ Slack/ NA 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 (µmhos/cm)	Temp. (C°)
EST	1245	0.10	0.15	0.15	8.15	89.2	6.77	0.04	133	19.76
CEN				VOB						

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

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

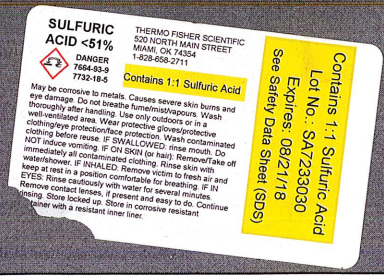
Parameter Suite	Parameter Methods	Preservation	Lot#	Expiration	pH Check
Preserved Nutrients	☒ W-NH3 / ☒ W-NO2NO3 / ☒ W-TKN / ☒ W-TOC / ☒ W-S-A-TP	☒ Ice ☒ H2SO4	SA7233080	8/21/15	<2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3			<2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice	R7EA12511		
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 NF	☒ 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			
W-E8321-DI W-E8321-MS					

Notes:

Place Label Here

Signature: [Signature] Date: 2/28/18

Enter Field Parameters, Verify Station ID In LIMS DMT: [Signature] QC Station ID, Field Parameters In LIMS DMT: [Signature]
Scan/Save Field Sheets [Signature] Migrate Data to WIN: [Signature] Verify Data In WIN: [Signature]



Florida Department of Environmental Protection

Central Laboratory Submittal Form

Customer: NE-DIST

Requester: Nicole Frederick

Field Report Prepared By:

Project ID: SMP

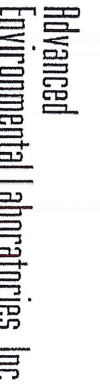
Collected By:

Sampling Agency:

L		WIN / Field ID		Collection (comp begin or grab)		Eastern		Composite end		Bottle	
F		G1NE0862		Date 2/28/18 Time 1100		Central		Date		(See pg 2)	
V		Calf Pond - center 2/28/2018		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 6.11		mg/L Total Res. Chlorine % sat (mg/L)			
Latitude 29.6282		Longitude 82.2862		Temp (C) 21.71		pH 7.51		Sample Depth 0.3		Sp. Conductance (umho/cm) 225	
WIN / Field ID		20020052		Collection (comp begin or grab)		Eastern		Composite end		Bottle	
LAKE ALICE CENTER 2/28/2018		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Date 2/28/18 Time 1400		Central		Date		A/E	
Latitude 29.6436		Longitude 82.3626		Temp (C) 24.13		pH 8.27		Sample Depth 0.3		Sp. Conductance (umho/cm) 282	
WIN / Field ID		G3NE0010		Collection (comp begin or grab)		Eastern		Composite end		Bottle	
LAKE ALICE Outlet @ Gale Lemeran rd. 2/28/2018		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Date 2/28/18 Time 1420		Central		Date		B/E	
Latitude 29.6416		Longitude 82.3574		Temp (C) 21.93		pH 7.03		Sample Depth 0.2		Sp. Conductance (umho/cm) 317	
Location		Matrix (type, e.g., Salt, Fresh, etc)		Collection (comp begin or grab)		Eastern		Composite end		Bottle	
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Date		Central		Date		Bottle	
WIN/STORET #		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		mg/L Total Res. Chlorine		% sat (mg/L)		Bottle	
Latitude		Longitude		Temp (C)		pH		Sample Depth		Sp. Conductance (umho/cm)	
Relinquished By:		Date/Time		Shipping Method		Number of Coolers Shipped:		Received By:		Date/Time	

Group: A	Bottle Type: P-1L	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	4
	ALKALINITY					
	TURBIDITY					
	W-CL-IC					
	W-COLOR					
	W-F					
	W-SO4-IC					
	W-TDS					
	W-TSS					
Group: A	Bottle Type: BP-1L	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	4
	CHLSUITE-W					
Group: A	Bottle Type: P-500ML	# of Bottles: 4	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	4
	W-NH3					
	W-NO2NO3					
	W-S-A-TP					
	W-TKN					
	W-TOC					
Group: A	Bottle Type: P-125ML	# of Bottles: 4	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	4
	W-PO4-F					
Group: B	Bottle Type: P-1L	# of Bottles: 1	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: B	Bottle Type: BP-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	CHLSUITE-W					
Group: B	Bottle Type: BG-500ML	# of Bottles: 1	Preservative:	CH2CICOOH Pre-Preserved	Enter Number of Bottles Sent to Lab	1
	W-CARB-AA					
Group: B	Bottle Type: BG-500ML	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	4

Group: B	Bottle Type: W-CT-Cl-R W-PCL-SQ-R	BG-500ML	# of Bottles: 4	Preservative: ICE	Enter Number of Bottles Sent to Lab	4
Group: B	Bottle Type: W-E8321-DI W-E8321-MS	BG-500ML	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab	4
Group: B	Bottle Type: W-ICP W-ICPMS	P-500ML	# of Bottles: 1	Preservative: HNO3	Enter Number of Bottles Sent to Lab	2
Group: B	Bottle Type: W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC	P-500ML	# of Bottles: 1	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab	2
Group: B	Bottle Type: W-PO4-F	P-125ML	# of Bottles: 1	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab	4
Group: B	Bottle Type: W-PSNP-TQ	BG-1L	# of Bottles: 4	Preservative: ICE	Enter Number of Bottles Sent to Lab	4
Group: C	Bottle Type: W-E8321-DI W-E8321-MS	BG-500ML	# of Bottles: 4	Preservative: ICE	Enter Number of Bottles Sent to Lab	4
Group: D	Bottle Type: PCR-FILTER	QPCR-P-250ML	# of Bottles: 8	Preservative: ICE	Enter Number of Bottles Sent to Lab	8
Group: E	Bottle Type: NED-AEG-EC	P-120ML-WC-THI	# of Bottles: 7	Preservative: ICE	Enter Number of Bottles Sent to Lab	7 to AEL
Group: F	Bottle Type: PCR-FILTER PCR-HF183	QPCR-P-250ML	# of Bottles: 2	Preservative: ICE	Enter Number of Bottles Sent to Lab	2
Group: G	Bottle Type: MI-FW-QLDC	PJ-2L	# of Bottles: 2	Preservative: Formalin	Enter Number of Bottles Sent to Lab	NO Sample



☐	
☒	✓
<u>Altamonte Springs:</u>	380 Northlake Blvd., Suite 1048 • Altamonte Springs, FL 32701 • 407.937.1594 • Fax 407.937.1597
<u>Gainesville:</u>	4965 SW 41st Blvd. • Gainesville, FL 32608 • 352.377.2349 • Fax 352.385.6639
<u>Jacksonville:</u>	6661 Southpoint Pkwy. • Jacksonville, FL 32216 • 904.363.9350 • Fax 904.363.9354
<u>Miramar:</u>	10200 USA Today Way • Miramar, FL 33025 • 954.889.2288 • Fax 954.889.2281
<u>Tallahassee:</u>	2639 North Monroe Street, Suite D • Tallahassee, FL 32303 • 850.219.6274 • Fax 850.219.6275
<u>Tampa:</u>	9610 Princess Palm Ave. • Tampa, FL 33619 • 813.820.0516 • Fax 813.820.0520

[illegible]

Matrix Code: WW = wastewater SW = surface water GW = ground water DW = drinking water O = oil A = air SO = soil SL = sludge Preservation Code: I = ice H=(HCl) S = (H₂SO₄) N = (HNO₃) T = (Sodium Thiosulfate)

Received on ice ☒ Yes ☐ No ☒ Temp taken from sample ☐ Temp from blank ☐ Where required, pH checked

Temperature when received 4.4 (in degrees celsius)

DCN: AD-051 Form last revised 04/30/2015

Date Time

Device used for measuring Temp by unique identifier (circle IR temp gun used)

☐ Where required, pH checked

Temperature when received	(in degrees Celsius)
4.1	

FOR DRINKING WATER USE:

PWS ID:

Contact Person:

Phone:

Supplier of Water:

Site-Address:

Cooler Packing Worksheet for Request: RQ-2018-02-26-23

Gville_2018

Ship Cooler On: 2/23/2018

Customer/Project: NE-DIST/SMP

Assigned To: SEARSON_C
Requester: Nicole Frederick

Priority: 3

Comments:

No preservatives needed.

- Group A: Freshwater Kit, No Metals
- Group B: Freshwater Kit With Metals W/Pest
- Group C: Tracers
- Group D: PCR-Filter
- Group E: E.Coli-Overflow
- Group F: PCR-Filter/PCR-HF183
- Group G: SCI

Requested Analyses:

Bottle Group: A

of Sites: 4

Container ID: P-1L

Description: Plastic Bottle 1L

Qty: 4 Preservation: ICE

Lot # 00070298

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

Container ID: BP-1L

Qty: 4

Preservation: ICE

Description: Brown Plastic Bottle 1L

Lot #

1214297

Analysis
CHLSUITE-W

Description

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

Analysis
CHLSUITE-W

Description

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

Description: Brown Plastic Bottle 1L

Container ID: BP-1L

Qty: 1

Preservation: ICE

Lot # 1214297

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

Description: Plastic Bottle 1L

Container ID: P-1L

Qty: 1

Preservation: ICE

Lot # 00070298

Bottle Group: B

of Sites: 1

Analysis
W-PO4-F

Description

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

Description: Plastic Bottle 125 mL

Container ID: P-125ML

Qty: 4

Preservation: FILTER-ICE

Lot # 00069732

Analysis

Description

W-NH3
W-NO2NO3
W-S-A-TP
W-TKN
W-TOC
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

Description: Plastic Bottle 500 mL

Container ID: P-500ML

Qty: 4

Preservation: ICE And H2SO4

Lot # 00070302

Affix YELLOW sulfuric acid dot to container.

Container ID: BG-500ML	Description: Brown Glass Bottle 500ML	Affix BLUE dot to container.
Qty: 1	Preservation: CH2ClCOOH Pre-Preserved	Lot # 00068622
<u>Analysis</u> W-CARB-AA	<u>Description</u> Carbamates in water matrices by HPLC/MS/MS	
Container ID: BG-500ML	Description: Brown Glass Bottle 500ML	Affix BLUE dot to container.
Qty: 4	Preservation: ICE	Lot # 00068622
<u>Analysis</u> W-CT-CL-R W-PCL-SQ-R	<u>Description</u> Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization Organochlorine pesticides in water matrices by GC/MS-SIM	
Container ID: BG-500ML	Description: Brown Glass Bottle 500ML	Affix BLUE dot to container.
Qty: 1	Preservation: ICE	Lot # 00068622
<u>Analysis</u> W-E8321-DI W-E8321-MS	<u>Description</u> 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	Description: Plastic Bottle 500 mL	Affix RED nitric acid dot to container.
Qty: 1	Preservation: HNO3	Lot # 00070302
<u>Analysis</u> W-ICP W-ICPMS	<u>Description</u> 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	Description: Plastic Bottle 500 mL	Affix YELLOW sulfuric acid dot to container.
Qty: 1	Preservation: ICE And H2SO4	Lot # 00070302
<u>Analysis</u> W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC	<u>Description</u> 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	

Analysis
NED-AEG-EC

Description

Escherichia coli by membrane filter method using modified mTEC by Advanced Environmental
Gainesville Overflow Laboratories for NED

Description:

Container ID: P-120ML-WC-THI

Qty: 7 Preservation: ICE

Lot #

6H02-1

Bottle Group: E

of Sites: 7

Analysis
PCR-FILTER

Description

Preparation of Samples by Filtration and held for qPCR Analysis

Description: 250ml Sterile Nalgene (2)

Container ID: QPCR-P-250ML

Qty: 8 Preservation: ICE

Lot #

00069545

Bottle Group: D

of Sites: 4

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

Description: Brown Glass Bottle 500ML

Container ID: BG-500ML

Qty: 4 Preservation: ICE

Lot #

00068622

Bottle Group: C

of Sites: 4

Analysis
W-PSNP-TQ

Description

Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS

Description: Brown Glass Bottle 1L

Container ID: BG-1L

Qty: 4 Preservation: ICE

Lot #

00069911

Analysis
W-PO4-F

Description

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

Description: Plastic Bottle 125 mL

Container ID: P-125ML

Qty: 1 Preservation: FILTER-ICE

Lot #

00069732

Bottle Group: F

of Sites: 1

Container ID: QPCR-P-250ML

Qty: 2

Preservation: ICE

Lot #

00069545

Description: 250ml Sterile Nalgene (2)

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: G

of Sites: 1

Container ID: PJ-2L

Qty: 2

Preservation: Formalin

Lot #

B10W95H

Description: Plastic Jar 2 L

Analysis

MI-FW-QLDC

Description

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

Cooler Packed By: CS

Number of Coolers: 4

Date:

2/23/18

Kit must also include:
Field Sheets
Temperature Control Bottle
FedEx Bills, if applicable
Plastic Bags
Zip Ties

If Preservation Included:
ID # MCAA Buffer
Exp 01/10/19
ID #
Exp
ID #
Exp
ID #
Exp
ID #
Exp

Lot # 88817
Lot #
Lot #
Lot #
Lot #

PLEASE RETURN ALL COOLERS FOR RQ-2018-02-26-23

DEP Form FD 9000-4 Stream/River Habitat Assessment Sket

WIN / Field ID:



20030089

BLUES CREEK AT NW 71ST STREET,
GAINESVILLE 2/28/18

Date: 2/28/18
Sampler: N. Fredenich

100 m: Latitude 29.71806
Longitude 82.41836
0 m: Latitude 29.71848
Longitude 82.41878

Substrates: Code key, draw proportionate habitat abundance.

	Snags	<u>4.0</u>
	Roots/undercut banks	<u>2</u>
	Leaf Packs (or mats)	<u>3</u>
	Aquatic Macrophytes	<u>0</u>
	Pebbles	<u><1</u>
	Pools	<u>1/1/1</u>

total # observed = 11/11
range expected =

Average width 2.5 m

Average depth 0.25 m

Velocity measured at 20 meter mark.

WQ & chemistry taken at 100 meter mark.

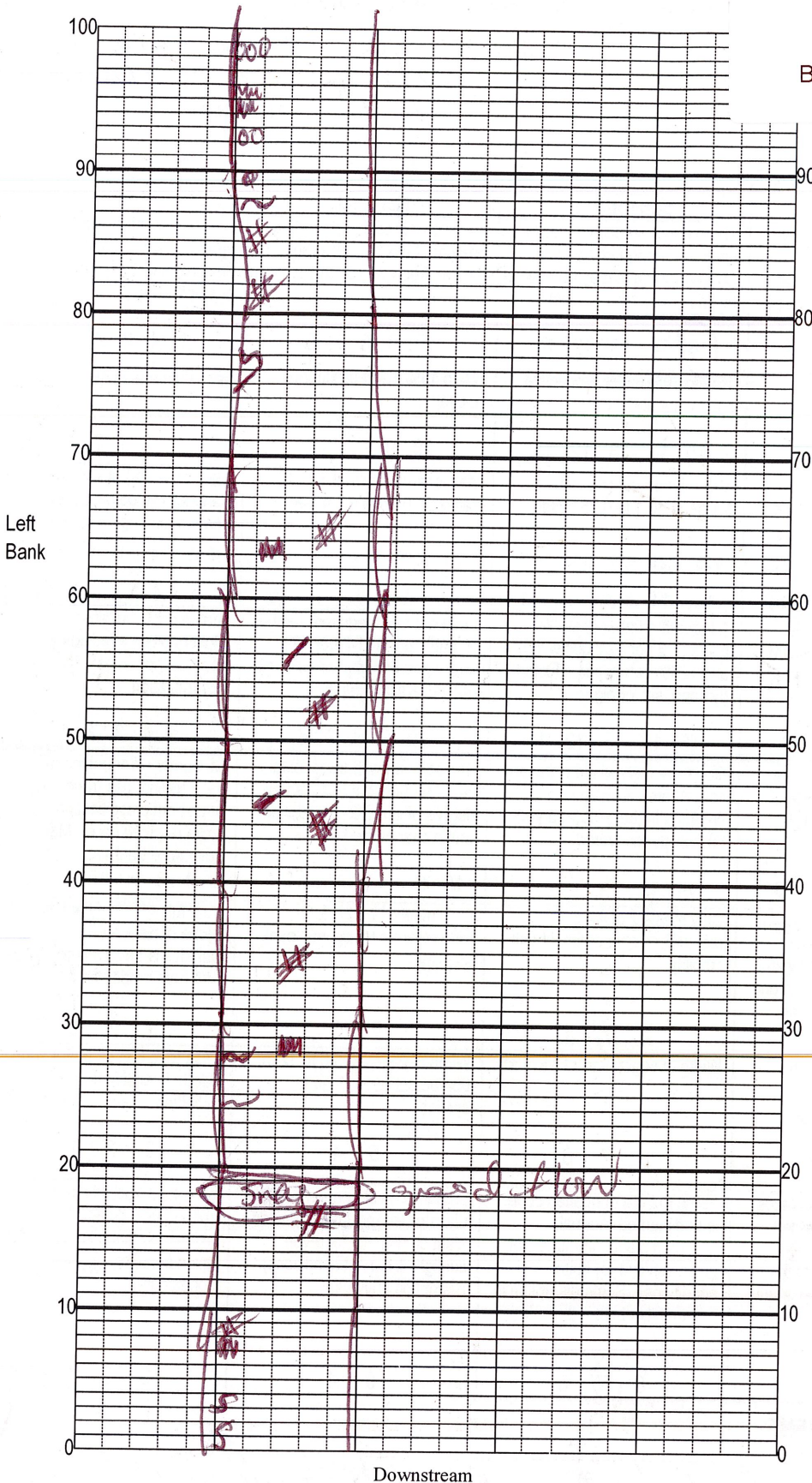
Habitat Smothering: Some Sand
Note areas (on map) where sand or silt is smothering substrates, limiting habitability. Smother

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

Riparian Buffer Width: >20m
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 NO



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



20030089

stream/River Habitat Assessment Field Sheet

BLUES CREEK AT NW 71ST STREET,
GAINESVILLE 2/28/18

REMARKS: <i>N. Frederick / B. Davis - NEROC</i>		COUNTY: <i>Alachua</i>	STORET STATION NUMBER:	DATE (MM/DD/YY): <i>2/28/18</i>	RECEIVING BODY OF WATER: <i>San Felipe</i>
		LOCATION:	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 <i>15</i>	20 19 18 17 16	<i>15</i> 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Substrate Availability <i>8</i>	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 <i>8</i> 7 6	Less than 5% major productive habitat 5 4 3 2 1
Water Velocity <i>20</i>	Max. observed at typical transect: > 0.25 m/sec. But < 1 m/sec ≥ 0.33 0.31 0.29 0.27 > 0.25 <i>20</i> 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 <i>18</i> ----- Primary Score <i>61</i>	Adequate number of stable pools (1-2 per 12 times width) and < 25% of habitats affected by sand, silt, or algae. 20 19 <i>18</i> 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	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 <i>20</i>	<i>20</i> 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Bank Stability Right Bank <i>7</i> Left Bank <i>7</i>	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 <i>7</i> 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 <i>10</i> Left Bank <i>10</i>	Width of vegetation greater than 18 m <i>10</i> 9	Width of vegetation > 12 to 18 m 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 <i>7</i> Left Bank <i>7</i> ----- Secondary Score <i>68</i>	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 <i>7</i> 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

129 TOTAL SCORE

Date: <i>2/28/18</i>	Analyst: <i>Nicole Frederick</i>	Signature: <i>Nicole Frederick</i>
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20030089

Physical/Chemical Characterization Field Sheet

 BLUES CREEK AT NW 71ST STREET,
 GAINESVILLE 2/28/18

 LATITUDE 29.71806
 LONGITUDE 82.41834
 SAMPLING AGENCY NJ ROC

 DATE 2/28/18 TIME 1245

SITE NAME

FIELD ID/NAME

RECEIVING BODY OF WATER

San Felipeco-Sink

RIPARIAN ZONE / STREAM FEATURES

Meter ID:

YSI # 3

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category): Forest/Natural ☐ 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 <u>2.5</u> m wide <u>.33</u> m/s <u>.33</u> m/s <u>.33</u> m/s <u>.90</u> m deep <u>.30</u> m deep <u>.30</u> m deep
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank: <u>220m</u> Right Bank: <u>720m</u>				Hydrologic Modification Score (per FT 3101) ☐				
High Water Mark: <u>1.50</u> + <u>1.25</u> = <u>1.75</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 INVERT PERI % Coverage # Times Sampled # Times Sampled Woody Debris (Snags) <u>4.0</u> <u>250m</u> Undercut Banks / Roots <u>2.0</u> Leaf Packs or Mat <u>3.0</u> Aquatic Vegetation <u>0</u> Rock or Shell Rubble.. <u>21</u> Sand..... <u>90%</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: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ Mid: <u>0.30</u> <u>19.76</u> <u>4.77</u> <u>8.15</u> <u>89.2</u> <u>133</u> <u>0.06</u> <u>N0B3</u> Bottom: ☐ ☐ ☐ ☐ ☐ ☐ ☐ <u>0.30</u> System Type: Stream ☒ Lake ☐ Wetland ☐ Estuary ☐ Other(Specify) ☐			
ABUNDANCE Not Obs. Rare Common Abundant Periphyton: ☐ ☒ ☐ ☐ Fish: ☐ ☒ ☐ ☐ Aquatic Plants: ☒ ☐ ☐ ☐ Iron/Sulfur Bacteria: ☒ ☐ ☐ ☐		Water Odors Normal ☒ Petroleum ☐ Sewage ☐ Chemical ☐ Other ☐ Water Sample Taken? ☒ Yes ☐ No Sample Preserved? ☒ Yes ☐ No Lot Number: <u>SAT233030</u> Exp: <u>3/2/18</u> 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 ☐			
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 <u>Nicole Fredon</u> SIGNATURE: <u>Nicole</u> <u>Brian Davis</u> <u>2/28/18</u>					



20030089

BLUES CREEK AT NW 71ST STREET,
GAINESVILLE 2/28/18

Rapid Periphyton Survey Field Sheet

Site:					County:		Date:		Investigators:	
					Alachua		2/28/2018		B.D., N.E.	
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	STORET Station Number:
0	1	N			60	1	N			96
	2					2				
	3					3				
	4					4				
	5					5				
	6					6				
	7					7				
	8					8				
	9					9				
10	1	N			70	1	N			96
	2					2				
	3					3				
	4					4				
	5					5				
	6					6				
	7					7				
	8					8				
	9					9				
20	1	N			80	1	N			85
	2					2				
	3					3				
	4					4				
	5					5				
	6					6				
	7					7				
	8					8				
	9					9				
30	1	N			90	1	N			96
	2					2				
	3					3				
	4					4				
	5					5				
	6					6				
	7					7				
	8					8				
	9					9				
40	1	N			100	1	N			96
	2					2				
	3					3				
	4					4				
	5					5				
	6					6				
	7					7				
	8					8				
	9					9				
50	1	N	X		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		X							
	3		X							
	4		X							
	5	N								
	6									
	7									
	8									
	9									

Secchi depth ☒ VOR
Estimated? ☒

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-

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

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Storet Number:

Signature: *[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.

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												Micranthemum glomeratum													
Bacopa caroliniana												Micranthemum umbrosum													
Bacopa monneri												Myriophyllum aquaticum													
Bidens mitis												Najas guadelupensis													
Boehmeria cylindrica												Nuphar luteum													
Centella asiatica												Orontium aquaticum													
Ceratophyllum demersum												Panicum hemitomon													
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)												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																									