



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

April 2018

Data Qualified?

Yes / No

WIN Station Name: Burnt Mill Creek Upstream of US 27

Date: 6/21/2018

WIN/ Field ID: G1WA0067

WBID: 918

Latitude: 30.409052

(mm/dd/yyyy)

County: Jefferson

ORG ID: 21FLWQA

Longitude: -84.063343

(Decimal Degrees)

Receiving Body of Water: St. Marks River

RQ-2018- 05-14-19

(Decimal Degrees)

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment				
Ben Ralys					☒	☒	☒	☒	☒	☒ Sample Container	☐ Van Dorn	☐ Pole		
Curtis Musson					☐	☒	☒	☒	☒	☐ Carboy	☒ Syringe			
					☐	☐	☐	☐	☐	☐ Dipper	☐ Other			
										Depth Measured with <u>YST</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# <u>Biology #2</u>					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 (umhos/cm)	Temp. (C°)				
<u>EST</u>	<u>800</u>	<u>0.4</u>	<u>0.3</u>	<u>VOB</u>	<u>6.95</u>	<u>83.7</u>	<u>6.96</u>	<u>0.03</u>	<u>62</u>	<u>24.76</u>				
CEN														
Biological Samples Collected: None <u>HA</u> SCI <u>RPS</u> Algae ID <u>LVS</u> LVI Other:														
SBIO ID Numbers: SBIO-ID: <u>78476</u> HA-ID: <u>15202</u> RPS-ID: <u>9043</u> Macrophyte-ID: LIMS#: <u>2002767</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				☐ <2			
Filtered Nutrients		☒ W-PO4-F ☒ Field Filtered 0.45 um 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 ☐ W-PCL-SQ-R ☐ WE8321-MS ☐ W-CARB-AA					☐ Ice ☐ Other							

Notes:

Kit-A, Bacteria
RPS, LVS and Pictures

Burnt Mill Creek
Upstream of US 27

FILED/WIN ID



G1WA0067

Signature:

Date:

Enter Field Parameters, Verify Station ID in LIMS DMT:

QC Station ID, Field Parameters in LIMS DMT:

Scan/Save Field Sheets

Migrate Data to WIN:

Verify Data in WIN:

(Initials/Date)

(Initials/Date)

Entered by: ~~6/22/18~~
QC: CM 6-25-18

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

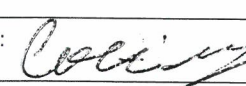
SBI0: 78476 HA: 15202

SAMPLING AGENCY: FD EP		STORET STATION NUMBER: G1WA0067	DATE (MM/DD/YY): 6/21/2018	RECEIVING BODY OF WATER: St Marks R.
REMARKS:	COUNTY: Can. Leon Jefferson	LOCATION: Burnt Mill Creek U.S. or 27	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 14	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Substrate Availability 8	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 20 0.4 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 13 ----- Primary Score 55 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
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 20	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 4 Left Bank 4	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 10 Left Bank 10	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 10 Left Bank 10 ----- Secondary Score 68	10 9	8 7 6	5 4	3 2 1

123

TOTAL SCORE

Date: 6/21/18	Analyst: Ben Ralys, Cortis Mason	Signature: 
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Born-Mill Creek
up stream of US 27

Date: 6-21-18

Sampler: Bay Rays

100 m: Latitude _____

Longitude _____

0 m: Latitude _____

Longitude _____

Substrates: Code key, draw proportionate habitat abundance.	%
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Snags

☐ Roots/undercut banks

Leaf Packs (or mats)

☐ Aquatic Macrophytes

☐ _____

☐ _____

P Pools total # observed = 5
range expected = 2-4

Average width 4 m

Average depth .4 m

Velocity measured at 30 meter mark.

WQ & chemistry taken at 10 meter mark.

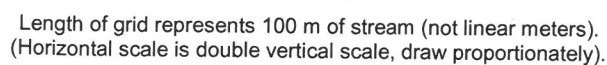
Habitat Smothering:
Note areas (on map) where sand or silt is smothering substrates, limiting habitability.

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:

flow = 2.5 sec.



Entered by: ~~SPR~~ 6/22/18
 QC: CM 6-25-18

Burnt Mill UPstream of US 27

SBI0: 79476 RPS10: 9043 LIMS: 2002767

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: G1 WA 0067 County: Jefferson Date: 6/21/18 Investigators: Ben Ralston / Chris McJannet

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	N	
	3					3	5		
	4					4	3		
	5			96		5	2		93
	6					6	2		
	7					7	2		
	8					8	2		
	9					9	3		
10	1	4			70	1	4	N	
	2	4				2	X	X	
	3	2				3	N	N	
	4	2				4	N		
	5	2		92		5	N		95
	6	2				6	N		
	7	2				7	N		
	8	2				8	N		
	9	2				9	N		
20	1	2			80	1	2	N	
	2	2				2	X	X	
	3	2				3	2	N	
	4	2				4	N		
	5	2		93		5	N		96
	6	2				6	N		
	7	2				7	N		
	8	2				8	N		
	9	2				9	N		
30	1	2			90	1	2	N	
	2	2				2	N		
	3	2				3	N		
	4	2				4	N		
	5	2		92		5	4		95
	6	2				6	N		
	7	2				7	N		
	8	2				8	N		
	9	2				9	N		
40	1	2			100	1	4		
	2	2				2	4		
	3	2				3	N		
	4	2				4	N		
	5	2		96		5	4		96
	6	2				6	N		
	7	2				7	N		
	8	2				8	N		
	9	2				9	3		
50	1	2			50	1	2		
	2	2				2	2		
	3	2				3	2		
	4	2				4	2		
	5	2		96		5	2		
	6	2				6	2		
	7	2				7	2		
	8	2				8	2		
	9	2				9	2		

STORET Station Number:
G1 WA 0067

Secchi depth 165
 Estimated? NO

points ranked 4-6 17
 total points assessed 96
 % points ranked 4-6 20

Check accompanying data collected at same site/date.
 Algal mat sample ☐
 Linear Veg Survey ☐
 Habitat Assessment ☐
 SCI/Biorecon ☐
 Water sample ☐
 RQ-2018-05-14-19

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%.

GIWA0067

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.

QC : CM 6-25-18

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: BIO #2

RQ: 2018-05-14-19

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 _____

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.	Ben Ralys	6/21/18	7:05	21.36	8.86	8.85	100.0	60.4	-	(P) F	(L) F
ICV	Ben Ralys	6/21/18	7:06	21.37	8.86	8.85	100.0	61.4	-	(P) F	(L) F
CCV	Curtis Mussen	6/21/18	1339	24.49	8.430	8.39	100.4	62.5	-	(P) F	(L) F
CCV										P / F	L / F

DO Acceptance criteria from Table ± 0.3 mg/L.

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

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

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.	Ben Ralys	6/21/18	7:07	17100SD	10/2018	1,000	1,000	(P) F	(L) F
ICV	Ben Ralys	6/21/18	7:08	17100SD	10/2018	1,000	1,000	(P) F	(L) F
CCV	Curtis Mussen	6/21/18	1343	180326A	04/2019	100	103	(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.	Ben Ralys	6/21/18	7:10	180326D	10/2019	7.0	7.0	18.1	(P) F	(L) F
Calibr.	Ben Ralys	6/21/18	7:13	180326C	4/2019	4.01	4.0	129.7	(P) F	(L) F
Calibr.	Ben Ralys	6/21/18	7:15	171005C	4/2019	10.0	10.0	-149.0	(P) F	(L) F
ICV	Ben Ralys	6/21/18	7:17	171005C	4/2019	10.0	9.99	-148.6	(P) F	(L) F
CCV	Curtis Mussen	6/21/18	1347	180326C	4/2019	4.01	4.09	185	(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 $+180 \pm 50$;

mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 _____, slope from 4 to 7 _____ (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 _____

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						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:

Request Number: RQ-2018-05-14-19

Ocklocknee, Burnt Mill, Lewis

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Customer: WAS-SECT

Project ID: SMP

Requester: Curtis Musson

Collected By:

Curtis Musson, Ben Ralys

Field Report Prepared By:

Curtis Musson

Sampling Agency:

FDEP

last revised Jan 25, 2018

Location		FILED/WIN ID		FIELD/WIN ID		Bottle Group(s)	
Field ID	Burnt Mill Creek	Upstream of US 27		G1WA0067		A,C	
WIN/STORET #							
Latitude	dd dms	Longitude	dd dms	Temp (C)	24.76	pH	6.96
Salinity (ppt)	dd dms	0.03	Comments RPS/LVS				
Location		FILED/WIN ID		FIELD/WIN ID		Bottle Group(s)	
Field ID	Lew s Creek	Upstream of US 27		G1WA0075		A,C	
WIN/STORET #							
Latitude	dd dms	Longitude	dd dms	Temp (C)	30.31	pH	6.68
Salinity (ppt)	dd dms	0.2	Comments				
Location		FILED/WIN ID		FIELD/WIN ID		Bottle Group(s)	
Field ID							
WIN/STORET #							
Latitude	dd dms	Longitude	dd dms	Temp (C)		pH	
Salinity (ppt)	dd dms		Comments				
Location		FILED/WIN ID		FIELD/WIN ID		Bottle Group(s)	
Field ID							
WIN/STORET #							
Latitude	dd dms	Longitude	dd dms	Temp (C)		pH	
Salinity (ppt)	dd dms		Comments				

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
<u>Curtis Musson</u>	<u>6/21/18 1:17</u>	<u>Drop off</u>	<u>2</u>	<u>[Signature]</u>	<u>6/21/18 1326</u>

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Customer: WAS-SECT

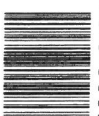
Project ID: SMP

Requester: Curtis Musson

Collected By:

Field Report Prepared By:

Sampling Agency:

Location		WIN ID / FIELD ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID	Ochlocknee River			Comp	Date	Time	Date	Time	
WIN/STORET #	Downstream of Tower Rd	G1WA00070		Grab	6-21-18	10:40			
Latitude	dd dms	Longitude	dd dms	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen		Total Res. Chlorine		
				Fresh	70.8		mg/L		
				Temp (C)	26.85		ft	Sp. Conductance	72
				Salinity (ppt)	0.03		m	(umho/cm)	
Location		WIN ID / FIELD ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID	Ochlocknee River			Comp	Date	Time	Date	Time	
WIN/STORET #	Upstream of Tower Rd	G1WA00069		Grab	6-21-18	11:00			
Latitude	dd dms	Longitude	dd dms	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen		Total Res. Chlorine		
				Fresh	69.9		mg/L		
				Temp (C)	26.83		ft	Sp. Conductance	72
				Salinity (ppt)	0.03		m	(umho/cm)	
Location		WIN ID / FIELD ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID	Ochlocknee River			Comp	Date	Time	Date	Time	
WIN/STORET #	Upstream of Old Brainbridge	G1WA00071		Grab					
Latitude	dd dms	Longitude	dd dms	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen		Total Res. Chlorine		
				NOT Collected			mg/L		
				Temp (C)			ft	Sp. Conductance	
				Salinity (ppt)			m	(umho/cm)	
Location		WIN ID / FIELD ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID	Ochlocknee River			Comp	Date	Time	Date	Time	
WIN/STORET #	Upstream of US 90	G1WA00068		Grab	6-21-18	950			
Latitude	dd dms	Longitude	dd dms	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen		Total Res. Chlorine		
				Fresh	70.1		mg/L		
				Temp (C)	27.13		ft	Sp. Conductance	80
				Salinity (ppt)	0.04		m	(umho/cm)	

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Curtis Musson	6/21/18 1:17	Drop off	2		6/21/18 1320

Group:	A	Bottle Type:	P-1L	# of Bottles:	6	Preservative:	ICE	Enter Number of Bottles Sent to Lab
		ALKALINITY						5
		TURBIDITY						
		W-CL-IC						
		W-COLOR						
		W-F						
		W-SO4-IC						
		W-TDS						
		W-TSS						
Group:	A	Bottle Type:	BP-1L	# of Bottles:	6	Preservative:	ICE	Enter Number of Bottles Sent to Lab
		CHLSUITE-W						5
Group:	A	Bottle Type:	P-250ML-WO-THI	# of Bottles:	6	Preservative:	ICE	Enter Number of Bottles Sent to Lab
		ECOLI-18QT						5
Group:	A	Bottle Type:	P-500ML	# of Bottles:	6	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab
		W-NH3						5
		W-NO2NO3						
		W-S-A-TP						
		W-TKN						
		W-TOC						
								H2SO4 LOT# SA0085170 EXP: 03/26/19
Group:	A	Bottle Type:	P-125ML	# of Bottles:	6	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab
		W-PO4-F						5
Group:	B	Bottle Type:	P-500ML	# of Bottles:	4	Preservative:	HNO3	Enter Number of Bottles Sent to Lab
		W-ICP						3
		W-ICPMS						
Group:	C	Bottle Type:	PT-50ML	# of Bottles:	3	Preservative:	ICE	Enter Number of Bottles Sent to Lab
		ALGAL ID						2

Date of Request: 09-APR-2018
 Created By: MUSSON_C On: 09-APR-2018
 Modified By: MUSSON_C On: 09-APR-2018
 Customer: WAS-SECT
 Project: SMP
 Division: Division of Environmental Assessment and Restoration
 District:
 Sampling Event: Ocklocknee, Burnt Mill, Lewis

Send Coolers To:

Phone: 850-245-8453
 2600 Blair Stone Rd
 Tallahassee, FL 32399
 Attn: Curtis Musson

Program Module Number:

Priority: 3
 Event Status: P
 Criminal Investigation: NO

Chemistry Request Reviewed By:**Biology Request Reviewed By:**

Sampling Kit Required: NO Ship on:

Sampling Kit Shipped:

Sampling Kit Packed By:

Preservatives Needed: NO

Date to Receive Samples: 17-MAY-2018

Received By:

Send Final Report To:

2600 Blair Stone Rd
 Tallahassee, FL 32399
 Attn: Curtis Musson

Report Type: Final Only

FTP Data: NO

QC Report: YES

Date Log: NO

Authorization Log: NO

Comments: Group A: Freshwater Kit, E.coli
 Group B: Metals
 Group C: Algal ID

Labels ONLY, We have the bottles.

Bottle Group A (Water) With 6 Samples:

Bottle Type:	Number of Bottles:	Preserved With:
ALKALINITY Total Alkalinity	Template: DEFAULT	(SM 2320 B-97) Alkalinity in aqueous matrices as mg CaCO ₃ /L
CHLSUITE-W Chlorophyll-a, Corrected Chlorophyll-a, Uncorrected Phaeophytin-a	Template: DEFAULT	(SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry
ECOLI-18QT Escherichia Coli-Quanti-Tray	Template: DEFAULT	(SM 9223 Quanti-Tray) Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems
TURBIDITY Turbidity	Template: DEFAULT	(EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices
W-CL-IC Chloride	Template: DEFAULT	(EPA 300.0 Rev. 2.1) Chloride in aqueous matrices
W-COLOR Color (true)	Template: DEFAULT	(SM 2120 B) True Color measured at 450 nm
W-F Fluoride	Template: DEFAULT	(SM 4500 F-C-97) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
W-NH3 Ammonia-N	Template: DEFAULT	(EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L
W-NO2NO3 NO2NO3-N	Template: DEFAULT	(EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L
W-PO4-F	Template: DEFAULT	(EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Bottle Group A (Water) With 6 Samples:

Bottle Type: ECOLI-18QT Number of Bottles: 6 Preserved With: ICE
 Template: DEFAULT (SM 9223 Quanti-Tray) Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems
 Escherichia Coli-Quanti-Tray

Bottle Type: P-500ML Number of Bottles: 6 Preserved With: ICE And H2SO4
 W-NH3 Template: DEFAULT (EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L
 Ammonia-N
 W-NO2NO3 Template: DEFAULT (EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L
 NO2NO3-N
 W-S-A-TP Template: DEFAULT (EPA 365.1 Rev. 2.0) Total Phosphorus in aqueous matrices as mg P/L
 Total-P
 W-TKN Template: DEFAULT (EPA 351.2 Rev. 2.0) Total Kjeldahl Nitrogen in aqueous matrices
 Kjeldahl Nitrogen
 W-TOC Template: DEFAULT (SM 5310 B-00) Nonpurgeable Organic Carbon in aqueous matrices
 Organic Carbon

Bottle Type: P-125ML Number of Bottles: 6 Preserved With: FILTER-ICE
 W-PO4-F Template: DEFAULT (EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L
 O-Phosphate-P

Bottle Group B (Water) With 4 Samples:

Bottle Type: P-500ML Number of Bottles: 4 Preserved With: HNO3
 W-ICP Template: (EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects
 Calcium
 Chromium
 Iron
 Magnesium
 Nickel
 Potassium
 Sodium
 Zinc

W-ICPMS Template: (EPA 200.8 Rev. 5.4) Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects
 Arsenic
 Cadmium
 Copper
 Lead
 Silver

Bottle Group C (Biological) With 3 Samples:

Bottle Type: PT-50ML Number of Bottles: 3 Preserved With: ICE
 ALGAL_ID Template: DEFAULT (SOP-AB05) Qualitative assessment of algal taxa present without counts
 *Dominant sample taxon

* - The laboratory is not NELAP certified for this analyte/method, or certification is not applicable.