FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

April 2018

Data Qualified? Yes / No

WIN Station Name: Lewis Creek upstream of 157 **Date:** 6/21/2018 (mm/dd/yyyy)

WIN/ Field ID: G1WA0075 **WBID:** 440 **Latitude:** 30.60799 (Decimal Degrees)

County: Gadsden **ORG ID:** 21FLWQA **Longitude:** -84.36349 (Decimal Degrees)

Receiving Body of Water: Ochlockonee River **RQ-2018-** 05-14-19

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Ben Ralys		X			
Curtis Musson	X	X		X	X

Sampling Equipment
- [X] Sample Container [ ] Van Dorn [ ] Pole
- [ ] Carboy [X] Syringe
- [ ] Dipper [ ] Other
- Depth Measured with: Meter Stick
- Equipment ID:

Collection Method
- [X] Wading [ ] Canoe/Kayak
- [ ] From Shore [ ] Electric Motor
- [ ] Other [ ] Gasoline Motor

Water Level: Dry/ Pooled/ ~~Low~~/ ~~Normal~~ / High / Flooded

Meter ID# Biology #2 **Matrix:** ~~Fresh~~ / Marine / DI

Photos: ~~Yes~~ / No **Flow:** No Flow / Intestital / ~~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 (PPTh)	Sp COND (µmhos/cm)	Temp. (C°)
~~EST~~	1145	0.2	0.1	VoB	6.07	80.6	6.68	0.03	66	30.31
CEN										

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

SBIO ID Numbers: SBIO-ID: 78477 HA-ID: 15203 RPS-ID: 9044 Macrophyte-ID: LIMS#: 2002768

Parameter Suite	Parameter Methods	Preservation	Lot#	Expiration	pH Check
Preserved Nutrients	[X] W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	[X] Ice [X] H_2SO_4	80S170	3/26/19	[X] <2
Metals	[ ] W-ICPMS [ ] W-ICP	[ ] Ice [ ] HNO_3			[ ] <2
Filtered Nutrients	[X] W-PO4-F [X] Field Filtered 0.45 µm Filter	[X] Ice	10827054		
Chlorophyll	[X] CHLSUITE-W	[X] Ice			
Physical/Aggregate (Fresh)	[X] Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS	[X] Ice			
Physical/Aggregate (Marine)	[ ] Alkalinity / W-F / W-TSS / TURBIDITY	[ ] Ice			
Macroinvertebrates	[ ] MI-FW-QLDC	[ ] Formalin			
Periphyton	[ ] ALGAE-ID	[ ] Ice			
Microbiology	[X] E Coli [ ] F Coli [ ] Enterococci	[X] 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			

Place Preservati (If Av

Contains: 1:1 H2S04
Lot No.: SA8085170
Expires: 03/26/19
See Safety Data Sheet (SDS)

SULFURIC ACID <61%
DANGER
Contains: 1:1 H2S04
7732-18-5
THERMO FISHER SCIENTIFIC 320 NORTH MAIN STREET MIAMI, OK 74354 1-800-964-2111

May be corrosive to metals. Causes severe skin burns and eye damage. Do not breathe fume/mist/vapours. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Wash contaminated clothing before reuse. IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store locked up. Store in corrosive resistant container with a resistant inner liner.

Notes:

Kit-A, Bacteria
RPS, LVS and Pictures

Lewis Creek

FILED/WIN ID

G1WA0075

Signature: Ben Ralys **Date:** 6/21/18

Enter Field Parameters, Verify Station ID In LIMS DMT: BR 6/22/18 (Initials/Date) QC Station ID, Field Parameters In LIMS DMT: CM 6-25-18 (Initials/Date)

Scan/Save Field Sheets CM 6-25-18 (Initials/Date) Migrate Data to WIN: (Initials/Date) Verify Data In WIN: (Initials/Date)

Entered by: [illegible] 6/22/18
QC: CM 6-25-18

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

SBIO: 78477 HA: 15203

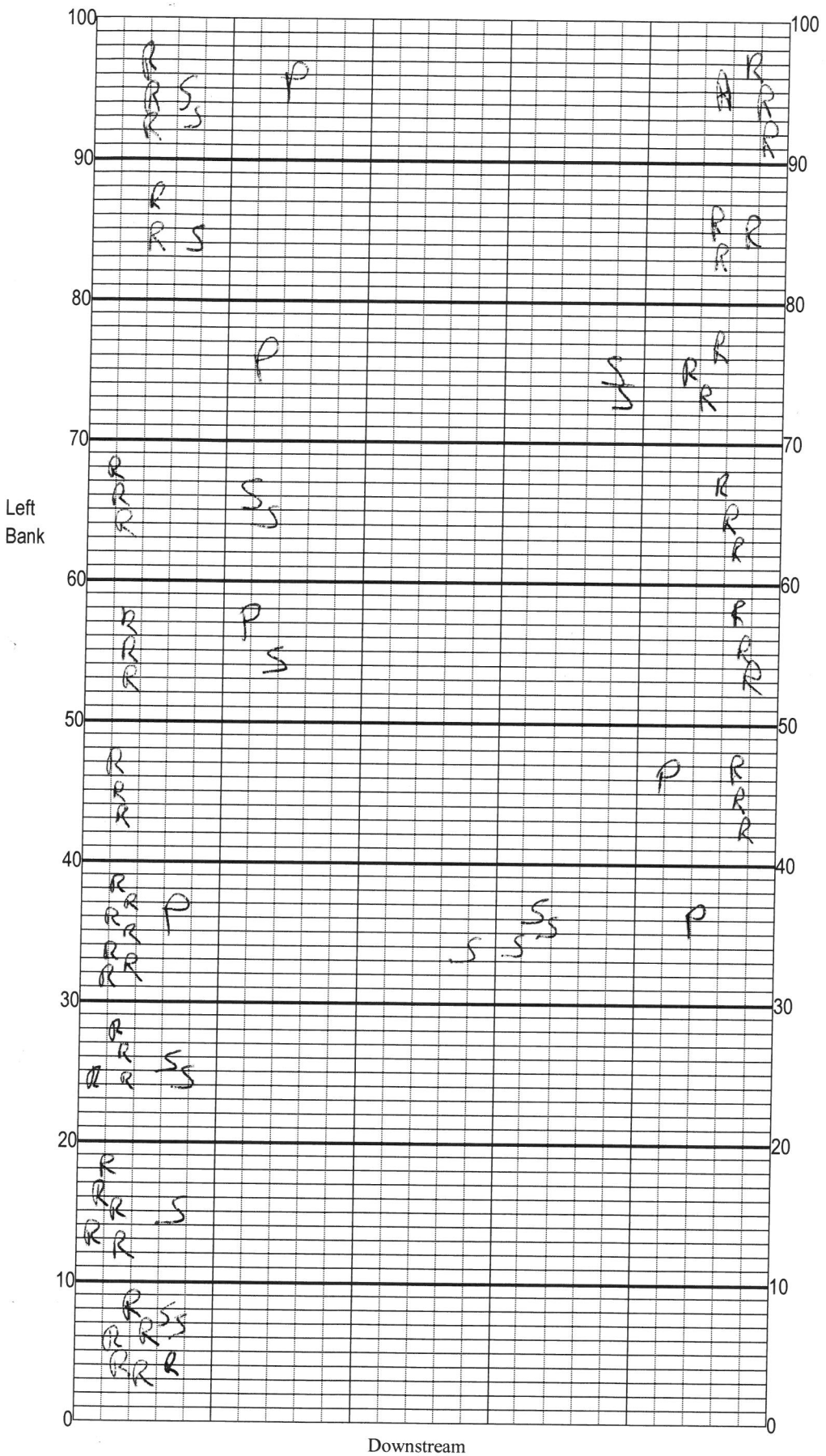
SAMPLING AGENCY: FDEP		STORET STATION NUMBER: GIWA007S	DATE (MM/DD/YY): 6/21/2018	RECEIVING BODY OF WATER: Ochlockonee River
REMARKS:	COUNTY: Gadsden	LOCATION: Lewis Creek		FIELD ID/NAME:

Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components **Substrate Diversity** 9	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 5	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	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 16 Primary Score 50	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** 6	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 3 Left Bank 3	Bankfull > 60% of bank height. Slope of bank ≤ 60° from bankful 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 10 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 52	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

102 **TOTAL SCORE**

Date: 6/21/18	Analyst: Ben Rabs, Curtis Mussch	Signature: [signature]

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: Lewis

Date: 6-21-2018

Sampler: Ben, Rally

100 m: Latitude	
Longitude	
0 m: Latitude	
Longitude	

Substrates: Code key, draw proportionate habitat abundance.	%
☐ Snags	>1
☐ Roots/undercut banks	4
☐ Leaf Packs (or mats)	>1
☐ Aquatic Macrophytes	0
☐ _____	_____
☐ _____	_____

☒ 6 Pools — total # observed = 2; # range expected = 3

Average width 5.5 m

Average depth 0.2 m

Velocity measured at 40 meter mark.

WQ & chemistry taken at 0 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: ~~KH~~ 6/22/18
CM, QC, 6-25-18

SBIO: 78477 RPS: 9044 LIMS#: 2002768

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: Lewis Creek | County: Gadsden | Date: 6/21/18 | Investigators: Curtis Mosson

STORET Station Number: 21FLA00775

Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover
0	1	N	N	
	2	N		
	3	N		
	4	N		
	5	N		95
	6	N		
	7	4		
	8	N		
	9	N		
10	1	N		
	2	N		
	3	4		
	4	N		
	5	N		96
	6	4		
	7	N		
	8	N		
	9	N		
20	1	4		
	2	N		
	3	N		
	4	N		
	5	N		96
	6	4		
	7	N		
	8	N		
	9	N		
30	1	N		
	2	N		
	3	4		
	4	N		
	5	N		96
	6	N		
	7	N		
	8	N		
	9	N		
40	1	4		
	2	N		
	3	4		
	4	N		
	5	N		96
	6	N		
	7	N		
	8	N		
	9	N		
50	1	N		
	2	N		
	3			
	4			
	5			96
	6			
	7			
	8		↓	
	9		N	

Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover
60	1	N	N	
	2	N		
	3			
	4			
	5			91
	6			
	7			
	8			
	9	N		
70	1	N		
	2			
	3			
	4			
	5			96
	6			
	7			
	8			
	9	✓		
80	1	N		
	2			
	3			
	4			
	5			96
	6			
	7			
	8			
	9	✓		
90	1	N		
	2			
	3			
	4			
	5			96
	6			
	7			
	8			
	9	✓		
100	1	N		
	2			
	3			
	4			
	5			96
	6			
	7			
	8	✓	↓	
	9	✓	N	

Secchi depth	Vab
Estimated?	NO

# points ranked 4-6	7
total points assessed	99
% points ranked 4-6	7%

Check accompanying data collected at same site/date.	
Algal mat sample	X
Linear Veg Survey	X
Habitat Assessment	X
SCI/Biorecon	NO
Water sample	X

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%.

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

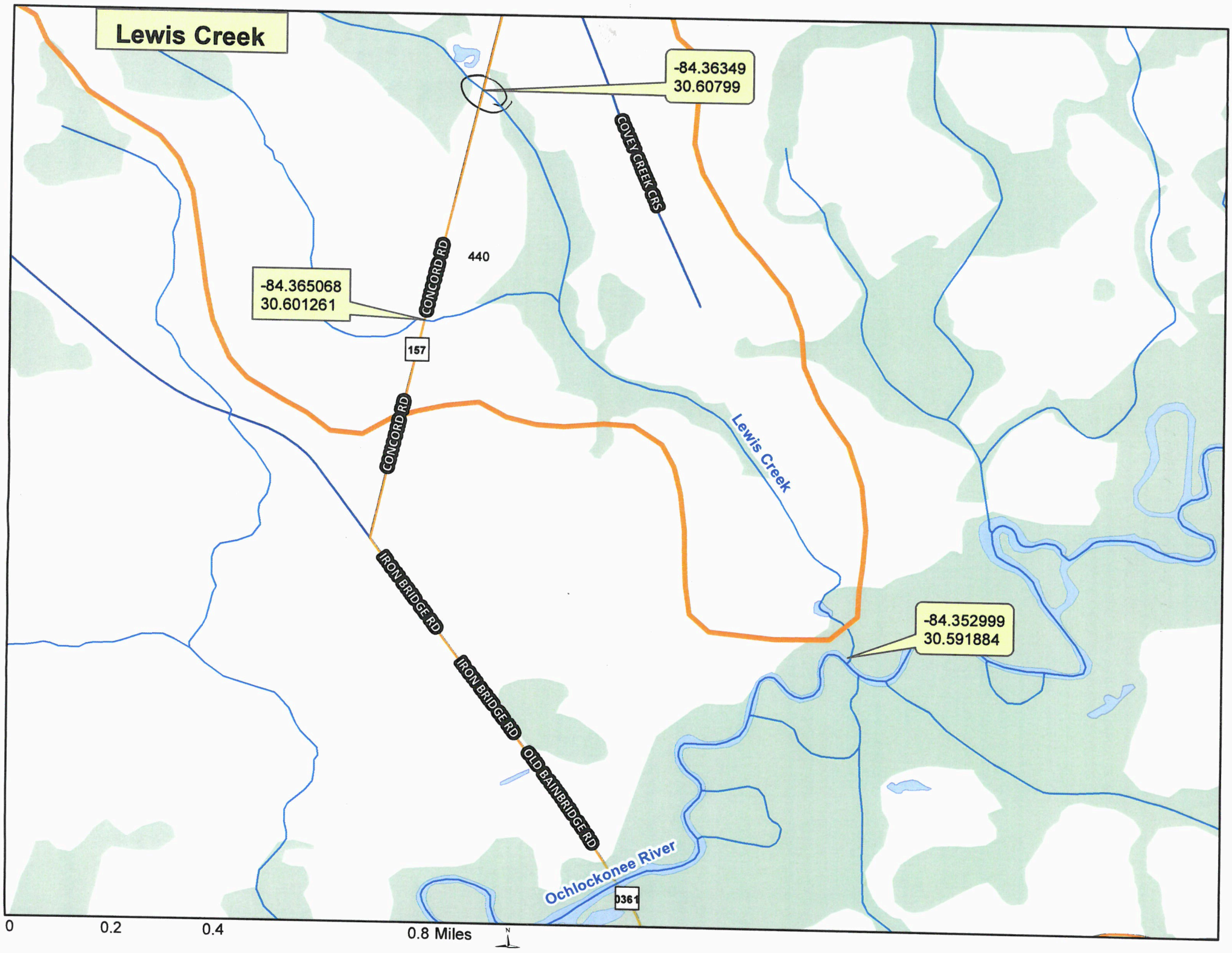
Waterbody: Lewis Creek	Date: 6/21/18	County: Gadsden	Storet Number: 21FLA007[illegible]
Analyst: Curtis Mosser		Signature: [signature]	
Comments: No Major Physical		72 m2	

Instructions: Note taxa growing in the water with a checkmark if present, "D" if dominant, and "C" if codominant (dominance only if 1 m^2 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 0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	Specimen collected (check)
Alternanthera philoxeroides											
Bacopa caroliniana											
Bacopa monneri											
Bidens mitis											
Boehmeria cylindrica											
Centella asiatica											
Ceratophyllum demersum											
Chara											
Cicuta maculata											
Cladium jamaicense											
Colocasia esculenta											
Commelina diffusa											
Commelina virginica											
Crinum americanum											
Diodia virginiana											
Eichhornia crassipes											
Eleocharis (wispy viviparous)											
Hydrilla verticillata											
Hydrocotle											
Hygrophila polysperma											
Hymenocallis											
Lachnanthes caroliniana											
Landoltia punctata											
Lemna											
Limnophila sessiflora											
Ludwigia leptocarpa											
Ludwigia palustris											
Ludwigia peruviana											
Ludwigia repens											
Luziola fluitans											
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		
>5 and ≤10% Macrophyte Coverage											
>10 and ≤25% Macrophyte Coverage											
>25 and ≤50% Macrophyte Coverage											
> 50% Macrophyte Coverage											

HERBACEOUS SPECIES	Meter Mark 0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	Specimen collected (check)
Micranthemum glomeratum											
Micranthemum umbrosum											
Myriophyllum aquaticum											
Najas guadelupensis											
Nuphar luteum											
Orontium aquaticum											
Panicum hemitomon											
Panicum repens											
Panicum rigidulum											
Pistia stratioides											
Polygonum glabra											
Polygonum hydropiperoides											
Polygonum punctatum											
Pontedaria cordata											
Potamogeton illinoensis											
Ruellia simplex											
Sacciolepis striata											
Sagittaria kurziana											
Sagittaria lancifolia											
Sagittaria latifolia											
Salvinia minima											
Samolus parviflora											
Saururus cernuus											
Sparganium americanum											
Typha											
Vallisneria americana											
Zizania aquatica											

QC CM 6-25-18


Lewis Creek
-84.36349
30.60799
COVEY CREEK CRS
440
CONCORD RD
-84.365068
30.601261
157
CONCORD RD
Lewis Creek
IRON BRIDGE RD
-84.352999
30.591884
IRON BRIDGE RD
OLD BAINBRIDGE RD
Ochlockonee River
0361
0
0.2
0.4
0.8 Miles
N

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 page.

Meter ID: BIO #2 RQ- 2018-05-1419 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 Musson	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. **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 µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	Ben Ralys	6/21/18	7:07	171005D	10/2018	1,000	1,000	(P) / F	(L) / F
ICV	Ben Ralys	6/21/18	7:08	171005D	10/2018	1,000	1,000	(P) / F	(L) / F
CCV	Curtis Musson	6/21/18	1343	180326A	04/2019	100	103	(P) / F	(L) / F
CCV								P / F	L / F

Conductivity Acceptance criteria ± 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	189.7	(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 Musson	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 ± 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 ± 5 % or ± 0.05m, whichever is greater.

COMMENTS:

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

Ocklocknee, Burnt Mill, Lewis

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: WAS-SECT

Project ID: SMP

Requester: Curtis Musson

Collected By: Curtis Musson, Ben Ralys

Field Report Prepared By: Curtis Musson

Sampling Agency: FDEP

Location: Burnt Mill Creek Upstream of US 27

FILED/WIN ID: G1WA0067

Field ID:

WIN/STORET #:

Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 8:00 6/21/18 Time 8:00 | Eastern / ~~Central~~

Composite end Date / Time /

Bottle Group(s) (See pg 2): A, C

Matrix (~~type, e.g., Salt~~, Fresh, ~~etc~~): Fresh

Diss. Oxygen 83.7 ☐ mg/L ☒ % sat

Total Res. Chlorine (mg/L) —

Temp (C) 24.76

pH 6.96

Sample Depth 0.3 ☐ ft ☒ ~~m~~

Sp. Conductance (umho/cm) 62

Salinity (ppt) 0.03

Comments: RPS / LVS

Location: Lew s Creek

FILED/WIN ID: G1WA0075

Field ID:

WIN/STORET #:

Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 6-21-18 Time 1145 | Eastern / ~~Central~~

Composite end Date / Time /

Bottle Group(s): A, C

Matrix (~~type, e.g., Salt~~, Fresh, ~~etc~~): Fresh

Diss. Oxygen 80.6 ☐ mg/L ☒ % sat

Total Res. Chlorine (mg/L) —

Temp (C) 30.31

pH 6.68

Sample Depth 0.1 ☐ ft ☒ ~~m~~

Sp. Conductance (umho/cm) 66

Salinity (ppt) 0.2

Comments:

Location:

Field ID:

WIN/STORET #:

Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms

☐ Comp ☐ Grab | Collection (comp begin or grab) Date Time | Eastern / Central

Composite end Date Time

Bottle Group(s):

Matrix (type, e.g., Salt, Fresh, etc):

Diss. Oxygen ☐ mg/L ☐ % sat

Total Res. Chlorine (mg/L)

Temp (C)

pH

Sample Depth ☐ ft ☐ m

Sp. Conductance (umho/cm)

Salinity (ppt)

Comments:

Location:

Field ID:

WIN/STORET #:

Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms

☐ Comp ☐ Grab | Collection (comp begin or grab) Date Time | Eastern / Central

Composite end Date Time

Bottle Group(s):

Matrix (type, e.g., Salt, Fresh, etc):

Diss. Oxygen ☐ mg/L ☐ % sat

Total Res. Chlorine (mg/L)

Temp (C)

pH

Sample Depth ☐ ft ☐ m

Sp. Conductance (umho/cm)

Salinity (ppt)

Comments:

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

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

Ocklocknee, Burnt Mill, Lewis

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: WAS-SECT

Project ID: SMP

Requester: Curtis Musson

Collected By: Curtis Musson, Ben Ralys

Field Report Prepared By: Curtis Musson

Sampling Agency: FDEP

Location

WIN ID / FIELD ID

Field ID: Ochlockonee River Downstream of Tower Rd

WIN/STORET #: G1WA0070

Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms

☐ Comp ☑ Grab | Collection (comp begin or grab) Date 6-21-18 Time 10:40 Eastern ~~Central~~ | Composite end Date / Time /

Matrix (~~type, e.g., Salt~~, Fresh, ~~etc~~): Fresh

Diss. Oxygen 70.8 ☐ mg/L ☒ % sat | Total Res. Chlorine (mg/L) /

Temp (C) 26.85 | pH 6.34 | Sample Depth 0.3 ☐ ft ☒ m | Sp. Conductance (umho/cm) 72

Salinity (ppt) 0.03 | Comments

Bottle Group(s) (See pg 2): A, B

Location

WIN ID / FIELD ID

Field ID: Ochlockonee River Upstream of Tower Rd

WIN/STORET #: G1WA0069

Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms

☐ Comp ☑ Grab | Collection (comp begin or grab) Date 6-21-18 Time 11:00 cm Eastern ~~Central~~ | Composite end Date / Time /

Matrix (~~type, e.g., Salt~~, Fresh, ~~etc~~): Fresh

Diss. Oxygen 69.9 ☐ mg/L ☒ % sat | Total Res. Chlorine (mg/L) /

Temp (C) 26.83 | pH 6.31 | Sample Depth 0.3 ☐ ft ☒ m | Sp. Conductance (umho/cm) 72

Salinity (ppt) 0.03 | Comments

Bottle Group(s): A, B

Location

WIN ID / FIELD ID

Field ID: ~~Ochlockonee River~~ ~~Upstream of~~ cm ~~Old Brainbridge~~

WIN/STORET #: [redacted] G1WA0071

Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms

☐ Comp ☐ Grab | Collection (comp begin or grab) Date Time Eastern Central | Composite end Date Time

Matrix (type, e.g., Salt, Fresh, etc) | Diss. Oxygen ☐ mg/L ☐ % sat | Total Res. Chlorine (mg/L)

Temp (C) | pH | Sample Depth ☐ ft ☐ m | Sp. Conductance (umho/cm)

Salinity (ppt) | Comments

Bottle Group(s): Not collected

NOT Collected

Location

WIN ID / FIELD ID

Field ID: Ochlockonee River Upstream of US 90

WIN/STORET #: G1WA0068

Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms

☑ Comp ☐ Grab | Collection (comp begin or grab) Date 6-21-2018 Time 950 Eastern ~~Central~~ | Composite end Date / Time /

Matrix (~~type, e.g., Salt~~, Fresh, ~~etc~~): Fresh

Diss. Oxygen 70.1 ☐ mg/L ☒ % sat | Total Res. Chlorine (mg/L) /

Temp (C) 27.13 | pH 6.73 | Sample Depth 0.3 ☐ ft ☒ m | Sp. Conductance (umho/cm) 80

Salinity (ppt) 0.04 | Comments

Bottle Group(s): A, B

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Curtis Musson	6/21/18 1:17	Drop off	3 2 1 Cm		6/21/18 1320

Group: A	Bottle Type: P-1L	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	5
	ALKALINITY 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	5
	CHLSUITE-W					
Group: A	Bottle Type: P-250ML-WO-THI	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	5
	ECOLI-18QT					
Group: A	Bottle Type: P-500ML	# of Bottles: 6	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	5
	W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC			H2SO4 LOT# SA8085170 EXP: 03/26/19		
Group: A	Bottle Type: P-125ML	# of Bottles: 6	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	5
	W-PO4-F		Lot# 10827054			
Group: B	Bottle Type: P-500ML	# of Bottles: 4	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	3
	W-ICP W-ICPMS			L LOT# NA-726120 Exp Date 9/18/18		
Group: C	Bottle Type: PT-50ML	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
	ALGAL_ID					

RQ-2018-05-14-19

Printed: 4/9/2018 12:01:03 PM

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 CaCO3/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: Number of Bottles: 6 Preserved With: ICE

ECOLI-18QT 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.