



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

PH + DO
Data Qualified?
Yes / No

WIN Station Name: Little River 100 meters upstream of US 90

Date: 9/30/2019

WIN/ Field ID: G1WA0073

WBID: 424

Latitude: 30.554619

County: Gadsden

ORG ID: 21FLWQA

Longitude: -84.513191

Receiving Body of Water: Lake Talquin

RQ- 2019-09-30-58

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Blake Spencer					X	X			
Evelyn Becerra							X	X	X

Sampling Equipment			
☒ Sample Container	☐ Van Dorn	☐ Pole	
☐ Carboy	☒ Syringe		
☐ Dipper	☐ Other		
Depth Measured with YSI Pro DSS			
Equipment ID 18J104543			

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

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

Meter ID# 18J104543 Matrix: Fresh / Marine / DI

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

Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPT)	Sp COND (µmhos/cm)	Temp. (C°)
EST	9:34	1.0	0.3	0.4	7.78	93.1	6.71	0.04	870	24.4
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	5A9129100	05/09/20	☒ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3			☐ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice			
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-BR-IC / 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-BacR ☐ PCR-GULL2 ☐ PCR-HF183 ☐ PCR-DG3 ☐ 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			
Phytoplankton	☐ DTY-QN-C ☐ PKD-QN-C	☐ Ice			

Notes: 10/18/19-AGW
AGP Limited Nutrients
AGP

WIN ID / FILED ID → G1WA0073

Location Little River 100 meters upstream of US 90

Signature: *[Signature]* Date: 9/30/19

LIMS EVENT ID: WQAP-2019-09-30-02

WIN Import ID:

Enter Field Parameters, Verify Station ID In LIMS DMT: *10/7/19*

QC Station ID, Field Parameters In LIMS DMT: *AGW 10/18/19*

Scan/Save Field Sheets (Initials/Date)

Migrate Data to WIN: (Initials/Date)

Verify Data In WIN: (Initials/Date)

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Customer: WQAP

Project ID: SPPROJECTS

Requester: Julie K. Espy

Collected By: Blake Spencer & Evelyn Acosta

Field Report Prepared By: Blake Spencer

Sampling Agency: FDEP

Location		WIN ID / FILED ID →		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID		G1WA0073		Date 9/30/2019 Time 9:34		Date		(See pg 2)	
WIN/STORET #		Little River 100 meters upstream of US 90		Matrix (type, e.g., Salt, Fresh, etc)		mg/L Total Res. Chlorine		A	
Latitude		dd dms		Temp (C) 24.4		Diss. Oxygen 93.1			
Longitude		dd dms		pH 6.71		Sample Depth 0.3			
Location				Salinity (ppt) 0.04		Sp. Conductance (umho/cm) 87.0			
Field ID		WIN ID / FILED ID →		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
WIN/STORET #		G1WA0086		Date 9/30/2019 Time 12:01		Date		A	
Latitude		dd dms		Matrix (type, e.g., Salt, Fresh, etc)		mg/L Total Res. Chlorine			
Longitude		dd dms		Temp (C) 25.4		Diss. Oxygen 84.0			
Location		Little River at Highbridge Road		pH 6.47		Sample Depth 0.3			
Field ID		WIN ID / FILED ID →		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
WIN/STORET #		G1WA0094		Date 9/30/2019 Time 14:45		Date		A	
Latitude		dd dms		Matrix (type, e.g., Salt, Fresh, etc)		mg/L Total Res. Chlorine			
Longitude		dd dms		Temp (C) 27.9		Diss. Oxygen 79.5			
Location		Little River Near Budd Park		pH 6.30		Sample Depth 0.3			
Field ID		WIN ID / FILED ID →		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
WIN/STORET #		G1WA0093		Date 9/30/2019 Time 11:01		Date		A	
Latitude		dd dms		Matrix (type, e.g., Salt, Fresh, etc)		mg/L Total Res. Chlorine			
Longitude		dd dms		Temp (C) 22.8		Diss. Oxygen 100.6			
Location		Richlander Creek at CR 65B		pH 6.08		Sample Depth 0.1			
Field ID		WIN ID / FILED ID →		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
WIN/STORET #		G1WA0093		Date 9/30/2019 Time 11:01		Date		A	
Latitude		dd dms		Matrix (type, e.g., Salt, Fresh, etc)		mg/L Total Res. Chlorine			
Longitude		dd dms		Temp (C) 22.8		Diss. Oxygen 100.6			
Location		Richlander Creek at CR 65B		pH 6.08		Sample Depth 0.1			

Relinquished By:	Date/Time: 9/30/19 16:12	Shipping Method: Hand Delivered	Number of Coolers Shipped:	Received By:	Date/Time:
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Group: A	Bottle Type: AA-AGP	OP-500ML	# of Bottles: 18	Preservative: ICE	Enter Number of Bottles Sent to Lab	8
Group: A	Bottle Type: AA-LIM-NUT	BP-1L	# of Bottles: 18	Preservative: ICE	Enter Number of Bottles Sent to Lab	8
Group: A	Bottle Type: CHLSUITE-W	BP-1L	# of Bottles: 9	Preservative: ICE	Enter Number of Bottles Sent to Lab	4
Group: A	Bottle Type: W-NH3 W-NO2NO3 W-S-A-TP W-TKN	P-500ML	# of Bottles: 9	Preservative: ICE And H2SO4 H2SO4 LOT# SA9129100 EXP: 05/09/2020	Enter Number of Bottles Sent to Lab	4
Group: A	Bottle Type: W-PO4-F	P-125ML	# of Bottles: 9	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab	4

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Meter ID: 18T104543

RQ: 2019-09-30-54

Project: AGM Stream

boldly "X" this box if there are qualified data on this page

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.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification _____

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp °C	Baro- meter mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	B. Spencer	9/30/19	0716	21.2	760.0	8.98	8.98	100	—	1.129	P F	L F
ICV		9/30/19	0717	21.2	760.0	8.98	8.89	100.2	—	—	P F	L F
CCV		9/30/19	1650	22.6	752.6	8.64	9.37	108.5	—	—	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 (Pro DSS 0.75 to 1.50); 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 μ mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	B. Spencer	9/30/19	0720	190619F	06/2020	1000	1000	P F	L F
ICV		9/30/19	0721	190619F	06/2020	1000	1000	P F	L F
CCV		9/30/19	1637	2904C81	08/2021	100	101.9	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	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	B. Spencer	9/30/19	0726	190619B	12/2020	7.01	22.3	7.01	-44.3	P F	L F
Calibr.		9/30/19	0729	190619A	12/2020	4.00	22.5	4.00	129.4	P F	L F
Calibr.		9/30/19	0731	190619C	12/2020	10.03	22.4	10.63	-214.0	P F	L F
ICV		9/30/19	0732	190619C	12/2020	10.03	22.4	10.02	-213.8	P F	L F
CCV		9/30/19	1646	190619A	12/2020	4.00	22.5	4.30	111.8	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)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification: _____

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: _____; Date of last 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	B. Spencer	9/30/19	0733	0.000	0.000	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:

Cooler Packing Worksheet for Request: RQ-2019-09-30-58

Streams AGP

Ship Cooler On: 9/26/2019

Customer/Project: WQAP/SPPROJECTS

Assigned To: SHAIK_A

Requester: Julie K. Espy

Priority: 3

850-245-8416
2600 Blair Stone Rd
MS #3560
Tallahassee, FL 32399-2400
Attn: Julie Espy

Comments:

1 - case of sulfuric acid

2 - sets of labels

Please note change in bottles for AGP/LIMNUT

Requested Analyses:

Bottle Group: A

of Sites: 9

Container ID: OP-500ML

Qty: 18 Preservation: ICE

Lot #

1197356

Description: Opaque Plastic Bottle 500mL -
Biology AGP Analysis

Analysis

AA-AGP

Description

Potential algal growth determination.

Container ID: BP-1L

Qty: 18 Preservation: ICE

Lot #

1259820

Description: Brown Plastic Bottle 1L

Analysis

AA-LIM-NUT

Description

Nutrient(s) limiting algal growth determination.

Container ID: BP-1L

Qty: 9 Preservation: ICE

Lot #

1259820

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: P-500ML

Qty: 9 Preservation: ICE And H2SO4

Lot # 8857385a

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

Analysis

W-NH3

W-NO2NO3

W-S-A-TP

W-TKN

Description

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

Container ID: P-125ML

Qty: 9 Preservation: FILTER-ICE

Lot # 88075427

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

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

Cooler Packed By: ABJ

Number of Coolers: 5

Date: 9-25-19

Kit must also include:

- ☒ Field Sheets
- ☒ Temperature Control Bottle
- ☒ FedEx Bills, if applicable
- ☒ Plastic Bags/Zip Ties
- ☒ Acid Labels (sets of 24)

If Preservation Included:

ID -	H2SO4	Exp	_____	Lot #	_____
ID -	LOT# SA9129100	Exp	_____	Lot #	_____
ID -	EXP: 05/09/2020	Exp	_____	Lot #	_____
ID	_____	Exp	_____	Lot #	_____
ID	_____	Exp	_____	Lot #	_____

PLEASE RETURN ALL COOLERS FOR RQ-2019-09-30-58

Shaik, Amzad

From: Watts, John
Sent: Tuesday, September 24, 2019 10:08
To: Tintle, Andrew; Shaik, Amzad; Wood-McGrath, Avril
Cc: Spencer, Blake; Ayres, Joshua
Subject: RE: RQ-2019-09-30-58

Andy/Amzad/Avril:

I'm going to modify the RQ to have different bottles for AGP and Limiting nutrients.

It WAS setup for BOTH tests to SHARE 2-2L plastic bottles for each sample. But these bottles are not always new, sometimes they have just been rinsed out. And this is not a test we perform on a regular basis.

SO, I'm going to use:

- 2-500ml opaque for each AGP sample (total 18)
- 2-1L opaque for each LIMNUT sample (total 18), same bottle as we use for chlorophyll
- We need 3-L of sample for each site

John Watts
FDEP Laboratories
Environmental Administrator
245-8077

From: Tintle, Andrew <Andrew.Tintle@FloridaDEP.gov>
Sent: Monday, September 23, 2019 3:36 PM
To: Watts, John <John.Watts@FloridaDEP.gov>
Subject: RQ-2019-09-30-58

John –

Asking about the AGP and Limiting Nutrients. I know the RQ says 18 2L bottles are being shipped but just want to confirm because that is what I need. Asking because a 2L bottle is not typical for AGP's but in this case where the limiting nutrients are being done I need 2, 2L bottles for each sample for the AGP and limiting nutrients.

Thanks

Andy



Andrew R. Tintle
Florida Department of Environmental Protection
FDEP Labs-Biology Program
Andrew.Tintle@FloridaDEP.gov
Office: 850.245.8165

Wood-McGrath, Avril

From: Gottfreid, Lauren
Sent: Thursday, October 3, 2019 11:26 AM
To: Wood-McGrath, Avril
Cc: Tintle, Andrew; Espy, Julie
Subject: RE: AGP/Llm Nut Samples

Avril,

Alright, thank you for getting back to me. Again, sorry for the inconvenience.

Lauren

From: Wood-McGrath, Avril <Avril.Wood-McGrath@FloridaDEP.gov>
Sent: Thursday, October 3, 2019 9:33 AM
To: Gottfreid, Lauren <Lauren.Gottfreid@FloridaDEP.gov>
Cc: Tintle, Andrew <Andrew.Tintle@FloridaDEP.gov>; Espy, Julie <Julie.Espy@dep.state.fl.us>
Subject: RE: AGP/Llm Nut Samples

Hi Lauren,

I'm ccing Julie Espy on this email. Please DO NOT continue the analysis. We will resample and get these back to you asap. Ill let you know more when we figure it out on our end.

Thanks for the heads up!

-Avril

From: Gottfreid, Lauren <Lauren.Gottfreid@FloridaDEP.gov>
Sent: Wednesday, October 2, 2019 10:56 AM
To: Wood-McGrath, Avril <Avril.Wood-McGrath@FloridaDEP.gov>
Cc: Tintle, Andrew <Andrew.Tintle@FloridaDEP.gov>
Subject: AGP/Llm Nut Samples

Good afternoon Avril,

We had a couple issues with the samples yesterday. An analyst left the samples out overnight and they were not refrigerated. They also accidentally dumped one sample down the drain while filtering. We should have enough of the lost sample left to run an AGP and a limiting nutrient without EDTA spikes.

If it is ok with you, we can move forward with the tests and add a Y qualifier on the data and run a Lim Nut without EDTA for the lost sample.

Sorry for this inconvenience.

Lauren Gottfreid
Environmental Specialist II
Toxicology Analyst
FDEP Labs-Biology Program