



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

WIN Station Name: G1WA0090 ✓

Date: 09/30/2019 ✓
(mm/dd/yyyy)

WIN/ Field ID: Ochlockonee River Upstream of 27 WBID: 1297E

Latitude: 30.5543

County: Gadsden

ORG ID: 21FLWQA

Longitude: -84.3832

Receiving Body of Water: Lake Talquin

RQ- 2019-09-30-58

Sampling Team Members

Avril Wood-McGrath

Mike Eckles J. Burtner

WQ Measurements
Sample Collection
Documentation
Preservation
Preservation Check

Sampling Equipment

☒ Sample Container ☐ Van Dorn ☐ Pole
☐ Carboy ☒ Syringe
☐ Dipper ☐ Other
Depth Measured with PRODS
Equipment ID 153489

Collection Method

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

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

Meter ID# 153489

Matrix: Fresh / Marine / DI

Photo: ☒ Yes ☐ No

Flow: No Flow / Intertidal 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	<u>1210</u> ✓	<u>0.4</u> ✓	<u>0.2</u> ✓	<u>0.4</u>	<u>7.59</u> ✓	<u>95.8</u> ✓	<u>7.28</u> ✓	<u>0.09</u> ✓	<u>195.7</u> ✓	<u>27.3</u> ✓
CEN				<u>(5)</u>					<u>195.7</u> <u>(2B)</u>	

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	<u>9129100</u>	<u>5/9/20</u>	☒ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3			☐ <2
Filtered Nutrients ✓	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice			
Chlorophyll ✓	☒ CHLSUTE-W	☒ Ice			
Physical/Aggregate (Fresh)	☐ Alkalinity / W-F / W-TSS / TURBIDITY / W-CI-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:

AGP & Lim NOT

10/18/19-AGP
AGP Lim NOT cancelled

WIN ID / FILED ID →

G1WA0090

Location

Ochlockonee River Upstream of 27

Signature: [Signature]

Date: 9/30/19

LIMS EVENT ID: WQAP-2019-09-30-01

WIN Import ID:

Enter Field Parameters, Verify Station ID in LIMS DMT: 888 10/4/19

QC Station ID, Field Parameters in LIMS DMT: AGP 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

Field Report Prepared By:

Collected By:

Sampling Agency:

Arrival Wood - McSwain

J. Burtchett, A. Wood-McSwain

FDEP

Location	Ochlockonee River Upstream of US 90										
Field ID	WIN ID / FILED ID	G1WA0068	Collection (comp begin or grab)	Date	9/30/19	Time	9:52	Eastern Central	Composite end Date	Time	Bottle Group(s)
WIN/STORE			Matrix (type, e.g., Salt, Fresh, etc)	Fresh							
Latitude			Temp (C)	27.5	pH	7.11	Diss. Oxygen	84.9	Total Res. Chlorine		
			Salinity (ppt)	0.08	Sample Depth	0.3	Sp. Conductance (umho/cm)	162.2			A
Location	Ochlockonee River Upstream of US 90										
Field ID	WIN ID / FILED ID	G1WA0091	Collection (comp begin or grab)	Date	9/30/19	Time	10:35	Eastern Central	Composite end Date	Time	Bottle Group(s)
WIN/STORE			Matrix (type, e.g., Salt, Fresh, etc)	Fresh							
Latitude			Temp (C)	24.5	pH	5.78	Diss. Oxygen	19.4	Total Res. Chlorine		
			Salinity (ppt)	0.03	Sample Depth	0.4	Sp. Conductance (umho/cm)	56.9			A
Location	Lewi's Creek Upstream of 157										
Field ID	WIN ID / FILED ID	G1WA0075	Collection (comp begin or grab)	Date	9/30/19	Time	11:20	Eastern Central	Composite end Date	Time	Bottle Group(s)
WIN/STORE			Matrix (type, e.g., Salt, Fresh, etc)	Fresh							
Latitude			Temp (C)	23.7	pH	6.78	Diss. Oxygen	52.4	Total Res. Chlorine		
			Salinity (ppt)	0.08	Sample Depth	0.05	Sp. Conductance (umho/cm)	180.7			A
Location	Lewi's Creek Upstream of 157										
Field ID	WIN ID / FILED ID	G1WA0090	Collection (comp begin or grab)	Date	9/30/19	Time	12:10	Eastern Central	Composite end Date	Time	Bottle Group(s)
WIN/STORE			Matrix (type, e.g., Salt, Fresh, etc)	Fresh							
Latitude			Temp (C)	27.3	pH	7.28	Diss. Oxygen	45.8	Total Res. Chlorine		
			Salinity (ppt)	0.09	Sample Depth	0.2	Sp. Conductance (umho/cm)	195.7			A

Relinquished By:

Shipping Method

Number of Coolers Shipped:

Received By:

Date/Time

9/30/19 14:01

2

[Signature]

9/30/19 1400

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		Enter Number of Bottles Sent to Lab	4
SA9129100							
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)

Boldly "X" this box if there are qualified data on this page.

Meter ID: ProDSS 150484

RQ: 2019-09-30-58

Project: Agm Stream

- 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.	Amilwood-mcSwath	9/30/19	7:47	22.3	759.9	8.693	8.69	100.0			Ⓟ / F	Ⓟ / F
ICV	↓	9/30/19	7:55	22.3	759.1	8.693	8.71	100.1			Ⓟ / F	Ⓟ / F
CCV	↓	9/30/19	14:22	23.0	758.7	8.578	8.45	98.4			Ⓟ / F	Ⓟ / 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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	Amilwood-mcSwath	9/30/19	7:56	2908C81	8/21	100	100	Ⓟ / F	Ⓟ / F
ICV	↓	↓	8:00	190618F	6/20	1000	1000	Ⓟ / F	Ⓟ / F
CCV	↓	↓	8:02	190618F	6/20	997	1000	Ⓟ / F	Ⓟ / F
CCV			8:04	2908C81	8/21	102.2	100	Ⓟ / F	Ⓟ / 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.	Amilwood-mcSwath	9/30/19	8:07	190618B	12/20	7.02	22.1	7.02	-67.8	Ⓟ / F	Ⓟ / F
Calibr.	↓	↓	8:11	190618A	12/20	4.00	22.3	4.00	109.7	Ⓟ / F	Ⓟ / F
Calibr.	↓	↓	8:16	190618C	12/20	10.05	22.3	10.05	-232.7	Ⓟ / F	Ⓟ / F
ICV	↓	↓	8:16	190618C	12/20	10.05	22.2	10.01	-232.9	Ⓟ / F	Ⓟ / F
CCV			14:14	190618A	12/20	4.00	22.2	4.01	108.6	Ⓟ / F	Ⓟ / F
CCV			14:26	190618C	12/20	10.05	22.1	9.95	-230.5	Ⓟ / F	Ⓟ / 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						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

Description: Plastic Bottle 500 mL

Qty: 9 Preservation: ICE And H2SO4

Lot # 50073850

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

Description: Plastic Bottle 125 mL

Qty: 9 Preservation: FILTER-ICE

Lot # 50075427

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: 9-28-19

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/Lim 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/Lim 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/Lim 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