



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

February 2016

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Data Qualified?
Yes / No

STORET Station Name: Lake Talquin Middle

Date: 4/7/16

(mm/dd/yyyy)

STORET Station ID: G1WA0032

Latitude: 30.44904
(Decimal Degrees)

WBID: 1297D

RQ - 2016-04-04-81

ORG ID: 21FLWQA

Longitude: -84.52323
(Decimal Degrees)

Receiving Body of Water: Ochlockonee River

Field ID: G1WA0032

County: Leon/Gadsden

Sampling Team Members						WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Will Lasley						X			X	X
Ben Ralys							X	X		

Sampling Equipment		
☐ Sample Container	☐ Van Dorn	☐ Pole
☐ Carboy	☒ Syringe	
☐ Dipper	☐ Other	
Equipment ID		

Collection Method	
☐ Wading	☒ Via Boat
☐ From Shore	☒ Canoe/Kayak
☐ Other (note below)	☐ Electric Motor
	☐ Gasoline Motor

Water Level: Dry / Low / Normal / <u>High</u> / Flooded											Matrix: Fresh / Marine / DI	
Meter ID# 2		Photos: Yes / No		Tide Falling: Yes / No / <u>NA</u>								
Time Zone	Time	Sample Depth (m)	Total Depth (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (ppt)	Secchi Disk (m)	Sp COND (umhos/cm)	Temp. (C°)		
EST	8:45	0.3	3.9	6.06	65.2	6.00	0.02	0.33	38	18.92		
CEN	8:48	3.8		5.91	63.6	6.0	0.02		37	18.93		

Biological Samples Collected: <u>None</u> HA SCI LVS RPS LVI Other										
Parameter Suite	Parameter Methods					Preservation	Acid Lot#	Expiration	pH Check	
Preserved Nutrients	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP					☒ Ice ☒ H2SO4	SA 52590 20	9/16/16	☒ <2	
Metals	☐ W-ICPMS ☐ W-ICP					☐ Ice ☐ HNO2			☐ <2	
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 um Filter					☐ Ice				
Chlorophyll	☒ CHLSUITE-W					☐ Ice				
BOD	☒ BOD-UNIN					☐ Ice				
Physical/Aggregate (Kit A/C)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CHC / W-COLOR / W-SO4-IC / W-TDS					☐ Ice				
Physical/Aggregate (Kit B/D)	☐ Alkalinity / W-F / W-TSS / TURBIDITY					☐ Ice				
Macroinvertebrates	☐ MI-FW-QLDC					☐ Formalin				
Microbiology	☐ E Coli ☐ F Coli ☐ Enteroc ☐ QPCR					☐ Ice				
Periphyton	☐ ALGAE-ID					☐ Ice				
Pesticides	☒ W-PSNP-TQ ☒ W-AHERB-AA ☒ W-PYR-AA-R					☐ Ice				
	☒ W-PC-AA-SF ☒ W-UHERB-AA ☒ W-GLYPH					☐ Other				

Notes:	 G1WA0032 06 April 2016 Lake Talquin Middle
Signature: 	Date: 4/8/16

Field Parameters Entered into LIMS: CM 4-8-16 (Initials/Date)
Date Migrated to STORET: DT 2-13-16 (Initials/Date)
Field Parameters QC in LIMS: BR 4/25/16 (Initials/Date)
Field Sheets Scanned/Saved: (Initials/Date)

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 Biology #2

RQ- ~~2016-04-04-81~~

Project SMP

- Notes:** (1) Numbers ≤ 4 , are rounded down; numbers ≥ 5 are rounded up (e.g., 5.15 becomes 5.2).
 (2) Always wait for meter to stabilize before recording any readings.
 (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

~~03/04/2016~~

~~03/04/2016~~ 3/4/16

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	4/7/16	7:23	21.70	8.79	8.79	100	38.0		Pass	Lab
ICV	Ben Ralys	4/7/16	7:24	21.77	8.79	8.78	100	38.0		Pass	Lab
CCV	Will Lasley	4/7/16	02:44	29.5	7.62	7.42	97.7	41.0		Pass	Lab
CCV											

Report DO mg/L with one decimal figure and DO % saturation as a whole number with no decimals.

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 μ mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	Ben Ralys	4/7/16	7:27	CC14162	10/15/16	996	996	Pass	Lab
ICV	Ben Ralys	4/7/16	7:29	CC14162	10/15/16	996	996	Pass	Lab
CCV	Will Lasley	4/7/16	2:46	CC13882	7/15/16	101.1	100	Pass	Lab
CCV									

Report specific conductance as a whole number with no decimal figure.

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	4/7/16	7:32	153035	07/2017	7.0	7.0	-8.2	Pass	Lab
Calibr.	Ben Ralys	4/7/16	7:36	154634	07/2017	4.0	4.0	166.1	Pass	Lab
Calibr.	—					10.0				
ICV	—									
CCV	Will Lasley	4/7/16	2:48	146934	10/2016	10.0	10.0	183.6	Pass	Lab
CCV										

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU; mV pH7 Range 0 $\pm$ 50;

mV pH 4 Range +180 $\pm$ 50;

mV pH 10 Range -180 $\pm$ 50;

Slope from 7 to 10 and 4 to 7 must be between 165 and 180 mV

Depth (Quarterly)

Date of Last Depth Verification

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air				0.000			

ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater

Request Number: RQ-2016-04-04-81

Central Drainage Ditch, Lake Talquin, Lake Tallavanna
and Stafford CreekFlorida Department of Environmental Protection
Central Laboratory Submittal Form

Page 1 of 3

last revised Nov 10, 2015

Customer: WQAP

Requester: Benjamin Ralys

Field Report Prepared By: Ben Ralys

Project ID: SMP

Collected By: Ben Ralys, Will Lasley

Sampling Agency: FDEP

Location Central Drainage Ditch downstream of Orange Ave.		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 4/7/16 Time 01:45 pm	Eastern Central	Composite end Date — Time 01:45	Bottle Group(s) (See pg 2)
Field ID G1WA0026		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 8.05	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) —
STORET # G1WA0026		Temp (C) 20.91	pH 7.3	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 203
Latitude 30.4095	☒ dd ☐ dms	Longitude -84.3073	☒ dd ☐ dms	Salinity (ppt) 0.10	Comments	
Location Stafford Creek 100 meters upstream of SR 69		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 4/7/16 Time —	Eastern Central	Composite end Date — Time —	Bottle Group(s)
Field ID G2WA0004		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) —
STORET # G2WA0004		Temp (C)	pH	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm)
Latitude 30.4991	☒ dd ☐ dms	Longitude -85.0427	☒ dd ☐ dms	Salinity (ppt)	Comments	
Location Tallavanna Lake Middle		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 4/7/16 Time 12:15	Eastern Central	Composite end Date — Time 12:15	Bottle Group(s)
Field ID G1WA0045		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 12.10	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) —
STORET # G1WA0045		Temp (C) 21.78	pH 8.5	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 90
Latitude 30.59862	☒ dd ☐ dms	Longitude -84.46593	☒ dd ☐ dms	Salinity (ppt) 0.04	Comments	
Location Lake Talquin Middle		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 4/7/16 Time 09:45	Eastern Central	Composite end Date — Time 09:45	Bottle Group(s)
Field ID G1WA0032		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 6.06	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) —
STORET # G1WA0032		Temp (C) 18.92	pH 6.0	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 38
Latitude 30.44904	☒ dd ☐ dms	Longitude -84.52323	☒ dd ☐ dms	Salinity (ppt) 0.02	Comments	

Relinquished By: Ben Ralys	Date/Time 4/7/16	Shipping Method hand Delivered	Received By:	Date/Time	Relinquished By:	Date/Time	Received By: MUB	Date/Time 4/7/16/2:23p
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Date of Request: 23-MAR-2016
 Created By: RALYS_B On: 23-MAR-2016
 Modified By: WATTS_J On: 24-MAR-2016
 Customer: WQAP
 Project: SMP
 Division:
 District:
 Sampling Event: Central Drainage Ditch, Lake Talquin, Lake Tallavanna and Stafford Creek

Send Coolers To:

Phone: 850-245-8443
 2600 Blair Stone Rd
 MS #3560
 Tallahassee, FL 32399-2400
 Attn: Benjamin Ralys

Program Module Number:

Priority: 3

Event Status: S

Criminal Investigation: NO

Chemistry Request Reviewed By: WATTS_J On: 24-MAR-2016

Biology Request Reviewed By: WATTS_J On: 24-MAR-2016

Sampling Kit Required: YES Ship on: 28-MAR-2016

Sampling Kit Shipped: YES On: 28-MAR-2016

Sampling Kit Packed By: KITCHEN_S

Preservatives Needed: NO

Date to Receive Samples: 07-APR-2016

Received By:

Send Final Report To:

2600 Blair Stone Rd
 MS #3560
 Tallahassee, FL 32399-2400
 Attn: Katrina Sanders

Report Type: Final Only

FTP Data: NO

QC Report: YES

Date Log: NO

Authorization Log: NO

Comments: Bottle Group A = freshwater chemistry
 Bottle Group B = pesticides
 Bottle Group C = phytoplankton
 Bottle Group D = 1 sample Pyraclostrobin

Bottle Group A (Water) With 4 Samples:

Bottle Type: P-1L	Number of Bottles: 4	Preserved With: ICE
ALKALINITY	Template: DEFAULT	(SM 2320 B-97) Alkalinity in aqueous matrices as mg CaCO ₃ /L
Total Alkalinity		
TURBIDITY	Template: DEFAULT	(EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices
Turbidity		
W-CL-IC	Template: DEFAULT	(EPA 300.0 Rev. 2.1) Chloride in aqueous matrices
Chloride		
W-COLOR	Template: DEFAULT	(SM 2120 B) True Color measured at 450 nm
Color (true)		
W-F	Template: DEFAULT	(SM 4500 F-C-97) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
Fluoride		
W-NO2	Template: DEFAULT	(EPA 353.2 Rev. 2.0) Nitrite in aqueous matrices as mg N/L
Nitrite-N		
W-TDS	Template: DEFAULT	(SM 2540 C-97) Total Dissolved Solids in aqueous matrices
TDS		
W-TSS	Template: DEFAULT	(SM 2540 D-97) Total Suspended Solids in aqueous matrices
TSS		

Bottle Type: P-1L	Number of Bottles: 4	Preserved With: ICE
BOD-UNIN	Template: DEFAULT	(SM 5210 B) BOD, NOT nitrogen-inhibited
Biochemical Oxygen Demand-5 Day		

Bottle Type: BP-1L	Number of Bottles: 4	Preserved With: ICE
CHLSUITE-W	Template: DEFAULT	(SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, phaeophytin and ratio by spectrophotometry
Chlorophyll/Phaeophytin Ratio		
Chlorophyll-a, Corrected		
Chlorophyll-a, Uncorrected		

Bottle Group B (Water) With 4 Samples:

Bottle Type: BG-1L Number of Bottles: 10 Preserved With: ICE
 W-PC-AA-SF Template: (DEP SOP: GC-011-5 (based on EPA 608 and 617)) Organochlorine pesticides (low levels) in water matrices by GC/ECD.

Endrin Aldehyde
 Gamma-BHC
 Heptachlor
 Heptachlor Epoxide
 Methoxychlor
 Mirex
 Permethrin
 Trifluralin

Bottle Type: BG-1L Number of Bottles: 10 Preserved With: ICE
 W-PSNP-TQ Template: (EPA 8270D) Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS

*Ametryn
 *Atrazine
 *Atrazine Desethyl
 *Chlorpyrifos Ethyl
 *Chlorpyrifos Methyl
 *Disulfoton
 *EPTC
 *Ethion
 *Ethoprop
 *Fipronil
 *Hexazinone
 *Malathion
 *Metribuzin
 *Mevinphos
 *Molinate
 *Norflurazon
 *Pendimethalin
 *Phorate
 *Prometryn
 *Simazine
 *Terbufos
 *Terbutylazine

Bottle Type: BG-1L Number of Bottles: 4 Preserved With: ICE
 W-PYR-AA-R Template: DEFAULT (EPA 8321B) Pyraclostrobin in water matrices by HPLC/MS/MS
 *Pyraclostrobin

Bottle Group C (Water) With 1 Samples:

Bottle Type: BP-1L Number of Bottles: 1 Preserved With: Lugols
 DTY-QN-C Template: DEFAULT (SOP-AB05_1) No. of diatom taxa of quantitative phytoplankton sample.
 *Phytoplankton-Quantitative-#Diatom Taxa
 PKD-QN-BV Template: DEFAULT (SOP-AB05) No. of wet taxa of quantitative phytoplankton sample w/speciation and cell counts.
 *Phytoplankton-Quant Biovolume-#Wet Taxa

Bottle Group D (Water) With 1 Samples:

Bottle Type: BG-1L Number of Bottles: 1 Preserved With: ICE
 W-PYR-AA-R Template: DEFAULT (EPA 8321B) Pyraclostrobin in water matrices by HPLC/MS/MS
 *Pyraclostrobin

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

Cooler Packing Worksheet for Request: RQ-2016-04-04-81
Central Drainage Ditch, Lake Talquin, Lake Tallavanna and Stafford Creek

Ship Cooler On: 3/23/2016
Customer/Project: WQAP/SMP

Requester: Benjamin Ralys
Priority: 3

850-245-8443
2600 Blair Stone Rd
MS #3560
Tallahassee, FL 32399-2400

Attn: Benjamin Ralys

Comments:

No preservatives needed.

Bottle Group A = freshwater chemistry
Bottle Group B = pesticides
Bottle Group C = phytoplankton
Bottle Group D = 1 sample Pyraclostrobin

Requested Analyses:

Bottle Group: A

of Sites: 4

Container ID: P-1L

Qty: 4 Preservation: ICE

Lot # 00064196

Description: Plastic Bottle 1L

Analysis

ALKALINITY
TURBIDITY
W-CL-IC
W-COLOR
W-F
W-NO2
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)
Nitrite in aqueous matrices as mg N/L
Total Dissolved Solids in aqueous matrices
Total Suspended Solids in aqueous matrices

Container ID: P-1L

Qty: 4 Preservation: ICE

Lot # 00064196

Description: Plastic Bottle 1L

Analysis

BOD-UNIN

Description

BOD, NOT nitrogen-inhibited

Container ID: BP-1L

Qty: 4 Preservation: ICE

Lot # 1168614

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: P-500ML

Qty: 4 Preservation: ICE And H2SO4

Lot # 00063982

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

Analysis

W-NH3

W-NO2NO3

W-S-A-TP

W-TKN

W-TOC

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

Nonpurgeable Organic Carbon in aqueous matrices

Container ID: P-125ML

Qty: 4 Preservation: ICE-FLTR

Lot # 00064632

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

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

Bottle Group: B

of Sites: 4

Container ID: BG-1L

Qty: 4 Preservation: ICE

Lot # 00063991

Description: Brown Glass Bottle 1L

Affix BLUE dot to container.

Analysis

W-AHERB-AA

W-GLYPH

W-UHERB-AA

Description

Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS

Glyphosate in water matrices by HPLC/MS/MS

Urea herbicides and other chemicals in water matrices by HPLC/MS/MS

Container ID: BG-1L

Qty: 10 Preservation: ICE

Lot # 00063991

Description: Brown Glass Bottle 1L

Affix BLUE dot to container.

Analysis

W-PC-AA-SF

Description

Organochlorine pesticides (low levels) in water matrices by GC/ECD.

Container ID: BG-1L

Qty: 10 Preservation: ICE

Lot # 00063991

Description: Brown Glass Bottle 1L

Affix BLUE dot to container.

Analysis

W-PSNP-TQ

Description

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

Container ID: BG-1L

Qty: 4 Preservation: ICE

Lot # 00063991

Description: Brown Glass Bottle 1L

Analysis

W-PYR-AA-R

Description

Pyraclostrobin in water matrices by HPLC/MS/MS

Bottle Group: C

of Sites: 1

Container ID: BP-1L

Qty: 1 Preservation: Lugols

Lot # 1168614

Description: Brown Plastic Bottle 1L

Analysis

DTY-QN-C

PKD-QN-BV

Description

No. of diatom taxa of quantitative phytoplankton sample.

No. of wet taxa of quantitative phytoplankton sample w/speciation and cell counts.

Bottle Group: D

of Sites: 1

Container ID: BG-1L

Qty: 1 Preservation: ICE

Lot # 00063991

Description: Brown Glass Bottle 1L

Analysis

W-PYR-AA-R

Description

Pyraclostrobin in water matrices by HPLC/MS/MS

Cooler Packed By: SK Date: 3.28.16
DEP Cooler ID #(s): 6 coolers

Kit must also include:

- ☒ Field Sheets
- ☒ Temperature Control Bottle (1 per cooler)
- ☐ FedEx Bills, if applicable (1 per cooler)
- ☒ Plastic Bags
- ☒ Zip Ties

If Preservation Included:

ID _____	Lot # _____
ID _____	Lot # _____
ID _____	Lot # _____
ID _____	Lot # _____
ID _____	Lot # _____

PLEASE RETURN ALL COOLERS FOR RQ-2016-04-04-81