



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

PAGE 1 OF 1

February 2016

Data Qualified?
Yes ☒ No ☐

STORET Station Name: Central Drainage Ditch downstream of Orange Ave. Date: 5/19/2016
(mm/dd/yyyy)

STORET Station ID: G1WA0026 Latitude: 30.4095
(Decimal Degrees)

WBID: 357 RQ: 2016-05-16-34 ORG ID: 21FLWQA Longitude: -84.3073
(Decimal Degrees)

Receiving Body of Water: Munson Slough (Above Lake Munson) Field ID: G1WA0026 County: Leon

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Will Lasley					☒	☒			
Robert Wiwi							☒	☒	☒

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 / <u>Low</u> / Normal / High / Flooded						Matrix: <u>Fresh</u> / Marine / DI					
Meter ID# <u>Biology #2</u>			Photos: Yes / <u>No</u>			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 (µmhos/cm)	Temp. (C°)	
<u>EST</u>	<u>8:15</u>	<u>0.07</u>	<u>0.15</u>	<u>3.61</u>	<u>43.8</u>	<u>7.3</u>	<u>0.10</u>	<u>VOB</u>	<u>215</u>	<u>25.1</u>	
CEN											

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	<u>5259020</u>	<u>9/16/16</u>	☒ <2			
Metals	☐ W-ICPMS ☐ W-ICP				☐ Ice ☐ HNO2			☐ <2			
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter				☒ Ice						
Chlorophyll	☒ CHLSUITE-W				☒ Ice						
Physical/Aggregate (Kit A/C)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CI-IC / 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 ☐ Entero ☐ QPCR				☐ Ice						
Periphyton	☐ ALGAE-ID				☐ Ice						
Pesticides	☒ W-PSNP-TQ ☒ W-AHERB-AA ☐ W-PYR-AA-R ☒ W-PC-AA-SF ☐ W-UHERB-AA ☐ W-GLYPH				☒ Ice ☐ Other						

Contains
1:1
Sulfuric Acid
SA-5259020
EXP: 09/16/16
Warning!
See MSDS

Notes:	 G1WA0026 19 May 2016 Central Drainage Ditch downstream of Orange Ave.
Signature: <u>[Signature]</u>	Date: <u>5/20/16</u>

Field Parameters Entered into LIMS: CM 5/23/16 (Initials/Date) Field Parameters QC in LIMS: BR 6/3/16 (Initials/Date)
Date Migrated to STORET: DT 8-3-16 (Initials/Date) Field Sheets Scanned/Saved: CM 8-4-16 (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- 2016-05-16-34 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

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.	Robert Wini	5/19/16	7:09	22.68	8.627	8.63	100.0	49.2		P	L
ICV	Robert Wini	5/19/16	7:10	22.68	8.627	8.63	100.0	49.2		P	L
CCV	Will Lasley	5/19/16	16:00	29.9	7.57	7.53	99.6	50.2		P	L
CCV	Robert Wini										

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.	Robert Wini	5/19/16	7:16	160330D	4/17	1000	1000	P	L
ICV	Robert Wini	5/19/16	7:18	160330D	4/17	1000	1000	P	L
CCV	Will Lasley	5/19/16	16:02	160330D	4/17	1000	1001	P	L
CCV	Robert Wini	5/20/16	7:10	2609533	12/17	100	104	P	L

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.	Robert Wini	5/19/16	7:22	160330B	10/17	7.0	7.00	-18.2	P	L
Calibr.	Robert Wini	5/19/16	7:24	154634	7/17	4.0	4.00	162.9	P	L
Calibr.	Robert Wini	5/19/16	7:26	160330C	10/17	10.0	10.00	-184.7	P	L
ICV	Robert Wini	5/19/16	7:30	154634	7/17	4.0	3.98	163.1	P	L
CCV	Will Lasley	5/19/16	16:04	137587	11/15	4.0	4.0	—	P	L
CCV	Robert Wini	5/20/16	7:12	160330C	10/17	10.0	10.02	-186.9	P	L

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

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Customer: WQAP

Project ID: SMP

Requester: Benjamin Ralys

Collected By: Will Lasley / Robert W. W.

Field Report Prepared By: Will Lasley

Sampling Agency: FDEP - WQAP

Location Central Drainage Ditch downstream Orange Ave		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 5-19-16 Time 0815	Eastern Central	Composite end Date - Time -	Bottle Group(s) (See pg 2)
Field ID GIWA0026		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 3.61	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) -
STORET # GIWA0026		Temp (C) 25.1	pH 7.3	Sample Depth 0.07	☐ ft ☒ m	Sp. Conductance (umho/cm) 215
Latitude 30.4095	☒ dd ☐ dms	Longitude -84.3073	☒ dd ☐ dms	Salinity (ppt) 0.10	Comments -	
Location Lake Talquin Middle		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 5-19-16 Time 0920	Eastern Central	Composite end Date - Time -	Bottle Group(s)
Field ID GIWA0032		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 8.27	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) -
STORET # GIWA0032		Temp (C) 26.8	pH 7.4	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 78
Latitude 30.44904	☒ dd ☐ dms	Longitude -84.52323	☒ dd ☐ dms	Salinity (ppt) 0.04	Comments -	
Location STAFFORD CREEK 100 m upstream of SE 69		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 5-19-16 Time 1206	Eastern Central	Composite end Date - Time -	Bottle Group(s)
Field ID GZWA0004		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 7.53	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) -
STORET # GZWA0004		Temp (C) 23.2	pH 6.9	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 75
Latitude 30.4991	☒ dd ☐ dms	Longitude -85.0427	☒ dd ☐ dms	Salinity (ppt) 0.03	Comments -	
Location TALLAVANNA LAKE Middle		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 5-19-16 Time 1415	Eastern Central	Composite end Date - Time -	Bottle Group(s)
Field ID GIWA0045		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 12.58	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) -
STORET # GIWA0045		Temp (C) 29.1	pH 9.4	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 138
Latitude 30.59862	☒ dd ☐ dms	Longitude -84.46593	☒ dd ☐ dms	Salinity (ppt) 0.06	Comments Algae visible on surface	
Relinquished By: Lasley / W.W.		Date/Time 5-19-16	Shipping Method Drop / N/A	Number of Coolers Shipped:		Received By: [Signature]
						Date/Time 5/19/16 / 1540

Printed: 5/13/2016 1:31:14 PM

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Date of Request: 26-APR-2016
Created By: RALYS_B On: 26-APR-2016
Modified By: SWANSON_C On: 26-APR-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: 26-APR-2016
Biology Request Reviewed By: SWANSON_C On: 26-APR-2016
Sampling Kit Required: YES Ship on: 09-MAY-2016
Sampling Kit Shipped: YES On: 09-MAY-2016
Sampling Kit Packed By: KITCHEN_S
Preservatives Needed: NO
Date to Receive Samples: 19-MAY-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: Pesticides
Bottle Group B: Freshwater no metals
Bottle Group C: Phytoplankton

Bottle Group A (Water) With 3 Samples:

Bottle Type: BG-1L Number of Bottles: 3 Preserved With: ICE
W-AHERB-AA Template: DEFAULT (USGS O-2060-01) Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS
2,4,5-T
2,4-D
Acifluorfen
Bentazon
Silvex

W-GLYPH Template: DEFAULT (EPA 8321B) Glyphosate in water matrices by HPLC/MS/MS
*Glyphosate
W-UHERB-AA Template: DEFAULT (USGS O-2060-01) Urea herbicides and other chemicals in water matrices by HPLC/MS/MS
*Acetaminophen
*Carbamazepine
*Fluridone
*Primidone
Diuron
Fenuron
Imidacloprid
Linuron

Bottle Type: BG-1L Number of Bottles: 8 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.
Aldrin
Alpha-BHC
Beta-BHC
Carbophenothion
Chlorothalonil
Cypermethrin
DDD-p,p'

Bottle Group B (Water) With 3 Samples:

Bottle Type: P-1L	Number of Bottles: 3	Preserved With: ICE
W-SO4-IC	Template: DEFAULT	(EPA 300.0 Rev. 2.1) Sulfate in aqueous matrices
Sulfate		
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: BP-1L	Number of Bottles: 3	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		
Phaeophytin-a		

Bottle Type: P-500ML	Number of Bottles: 3	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: 3	Preserved With: ICE-FLTR
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 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		

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

Cooler Packing Worksheet for Request: RQ-2016-05-16-34
Central Drainage Ditch, Lake Talquin, Lake Tallavanna and Stafford Creek

Ship Cooler On: 5/2/2016
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: Pesticides
Bottle Group B: Freshwater no metals
Bottle Group C: Phytoplankton

Requested Analyses:

Bottle Group: A

of Sites: 3

Container ID: BG-1L

Qty: 3 Preservation: ICE

Lot # 00064158

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: 8 Preservation: ICE

Lot # 00064158

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: 8 Preservation: ICE

Lot # 00064158

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: 3 Preservation: ICE

Lot # 00064158

Description: Brown Glass Bottle 1L

Analysis

W-PYR-AA-R

Description

Pyraclostrobin in water matrices by HPLC/MS/MS

Bottle Group: B

of Sites: 3

Container ID: P-1L

Qty: 3 Preservation: ICE

Lot # 00064935

Description: Plastic Bottle 1L

Analysis

ALKALINITY

TURBIDITY

W-CL-IC

W-COLOR

W-F

W-SO4-IC

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)

Sulfate in aqueous matrices

Total Dissolved Solids in aqueous matrices

Total Suspended Solids in aqueous matrices

Container ID: BP-1L

Qty: 3 Preservation: ICE

Lot # 1170333

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: P-500ML

Qty: 3 Preservation: ICE And H2SO4

Lot # 00064521

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: 3 Preservation: ICE-FLTR

Lot # 00064528

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

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

Bottle Group: C

of Sites: 1

Container ID: BP-1L

Qty: 1 Preservation: Lugols

Lot # 1170333

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.

Cooler Packed By: SK

Date: 5-9-16

DEP Cooler ID #(s): 4 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-2016-05-16-34