



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

PAGE 1 OF 8

Data Qualified?

Yes / No

January 2017

STORET Station Name: Eight Mile Pond Middle

Date: 03/28/2017

STORET Station ID: G1WA0024

WBID: 807A

Latitude: 30.32635

(mm/dd/yyyy)

County: Leon

RQ - 2017-03-27-11

ORG ID: 21FLWQA

Longitude: -84.30273

(Decimal Degrees)

(Decimal Degrees)

Receiving Body of Water: Wakulla Springs

Field ID: G1WA0024 03282017

Sampling Team Members				WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment			
Ben Ralys				X	X	X	X	X	☒ Sample Container	☐ Van Dorn	☐ Pole	
Diana Turner				X	X	X	X	X	☒ 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 / Pooled / Low / <u>Normal</u> / High / Flooded				Matrix: <u>Fresh</u> / Marine / DI							
Meter ID# <u>Bio 2</u>				Photos: <u>Yes</u> / 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 (µmhos/cm)	Temp. (C°)	
<u>EST</u>	<u>10:15AM</u>	<u>0.3</u>	<u>0.6</u>	<u>6.96</u>	<u>81.7</u>	<u>7.57</u>	<u>0.04</u>	<u>VOB</u>	<u>77</u>	<u>23.26</u>	
CEN											

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

SBIO ID Numbers: SBIO-ID: RPS-ID: Macrophyte-ID: LIMS#:

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>6302030</u>	<u>10/28/17</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 (Fresh)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CI-IC / W-COLOR / W-SO4-IC / W-TDS	☒ Ice			
Physical/Aggregate (Marine)	☐ Alkalinity / W-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates	☐ MI-FW-QLDC	☐ Formalin			
Periphyton	☐ ALGAE-ID	☐ Ice			
Microbiology	☒ E Coli ☐ F Coli ☐ Entero ☐ PCR-FILTER	☒ Ice			
Tracers	☐ W-SUC-AA-R ☐ W-UHERB-AA	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH	☐ Ice ☐ Other			

Contains

1:1

Sulfuric Acid

SA-6302030

EXP: 10/28/17

Warning!

See SDS

Preservative Sticker(s) Here
(If Available)

Notes:
1-Kit A
FW Bact

Eight Mile
Pond Middle

STORET ↓

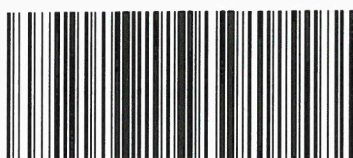


G1WA0024

Field ID →

Eight Mile Pond
Middle

MAR 28, 2017



G1WA0024_03282017

Signature:

Diana Turner

Date:

3/28/17

Field Parameters Entered into LIMS: DT 3/29/17
(Initials/Date)

Field Parameters QC in LIMS: DT 3/29/17
(Initials/Date)

Date Migrated to STORET: DT 3/29/17
(Initials/Date)

Field Sheets Scanned/Saved: DT 3/29/17
(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- **2017-03-27-11**

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 **03/06/2017**

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	3/28	7:32	21.66	8.81	8.8	100.0	47.1	-	P	L
ICV	Ben Ralys	3/28	7:33	21.67	8.81	8.8	100.0	46.1	-	P	L
CCV	Ben Ralys	3/28	1:53	23.46	8.51	8.58	100.8	47.1	-	P	L
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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	Ben Ralys	3/28	7:35	161111D	11/2017	1,000	1,000	P	L
ICV	Ben Ralys	3/28	7:36	161111D	11/2017	1,000	1,001	P	L
CCV	Ben Ralys	3/28	1:55	2510525	10/2017	100	103	P	L
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	3/28	7:39	161111B	5/2018	7.0	6.98	-11.8	P	L
Calibr.	Ben Ralys	3/28	7:41	161111A	11/2017	4.0	4.00	165.6	P	L
Calibr.	Ben Ralys	3/28	7:44	161111C	5/2018	10.0	9.95	-176.6	P	L
ICV	Ben Ralys	3/28	7:45	161111C	5/2018	10.0	9.96	-176.6	P	L
CCV	Ben Ralys	3/28	1:58	161111A	11/2017	4.0	3.99	184.8	P	L
CCV								164.5		

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU;

mV pH7 Range 0 ± 50 ;

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

mV pH 10 Range -180 ± 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 Lab Sample Submittal Form

Request Number: 2017-03-27-11

Sand Pond, Sally Ward Spring
Customer: WQ-ASSESS
Project ID: SMP

Requester: Curtis Musson

Collected By: Ben Palus & Diana Turner

Field Report Prepared By: Diana Turner
Sampling Agency: FDEP

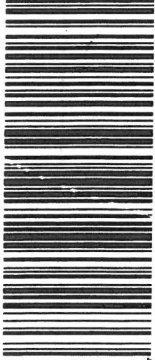
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STORET ↓



Sand Pond Middle

G1WA0044



Field ID →

Sand Pond Middle

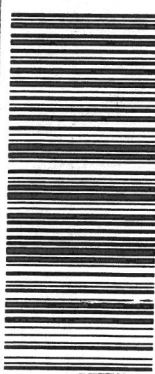
MAR 28, 2017 G1WA0044_03282017

STORET ↓



Sally Ward Spring
at Wakulla Park Dr.

G1WA0021



Field ID →

Sally Ward Spring at Wakulla Park Dr.

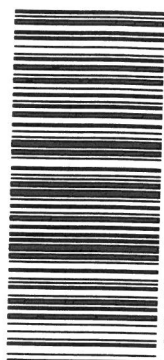
MAR 28, 2017 G1WA0021_03282017

STORET ↓



Eight Mile Pond Middle

G1WA0024



Field ID →

Eight Mile Pond Middle

MAR 28, 2017 G1WA0024_03282017

Collection (comp begin or grab)		Collection (comp begin or grab)		Collection (comp begin or grab)	
Comp	Date	Time	Eastern	Central	Time
☒ Grab	3/28/17	8:35 AM	☒ Eastern	☐ Central	
Matrix (Salt, Fresh)					
Fresh					
Temp (C)	22.44				
Diss. Oxygen (mg/L)		8.30			
pH		6.3			
Sample Depts (m)		0.3			
Sp. Conductance (umho/cm)					15
Salinity (ppt)	0.01				
Latitude (Decimal Degrees)	30.334				
Longitude (Decimal Degrees)		-84.387			
Bottle Group(s) A					
Collection (comp begin or grab)					
☒ Grab	3/28/17	9:40 AM	☒ Eastern	☐ Central	
Matrix (Salt, Fresh)					
Fresh					
Temp (C)	20.75				
Diss. Oxygen (mg/L)		2.93			
pH		7.67			
Sample Depts (m)		0.3			
Sp. Conductance (umho/cm)					337
Salinity (ppt)	0.16				
Latitude (Decimal Degrees)	30.244				
Longitude (Decimal Degrees)		-84.3109			
Bottle Group(s) A					
Collection (comp begin or grab)					
☒ Grab	3/28/17	10:15 AM	☒ Eastern	☐ Central	
Matrix (Salt, Fresh)					
Fresh					
Temp (C)	23.26				
Diss. Oxygen (mg/L)		6.96			
pH		7.57			
Sample Depts (m)		0.3			
Sp. Conductance (umho/cm)					77
Salinity (ppt)	0.04				
Latitude (Decimal Degrees)	30.32635				
Longitude (Decimal Degrees)		-84.30273			
Bottle Group(s) A, C					

Relinquished By: Diana Turner

Date/Time 3/28/17

1:31 PM

Number of Coolers 2

Received By: [Signature]

Date/Time 3-28-17

1:31

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Central Lab Sample Submittal Form

Request Number: 2017-03-27-11

Sand Pond, Sally Ward Spring

Customer: WQ-ASSESS

Project ID: SMP

Requester: Curtis Musson

Collected By:

Field Report Prepared By:

Sampling Agency: FDEP

Page 2 of 2

Chicken Branch at Old Plank Rd		Alford Arm Tributary at Buck Lake Rd.		Lake Lafayette Drain 250 meters downstream of Weems Rd	
Field ID → ST01	Field ID → ST02	Field ID → ST03	Field ID → ST04	Field ID → ST05	Field ID → ST06
Matrix (Salt, Fresh) Fresh	Matrix (Salt, Fresh) Fresh	Matrix (Salt, Fresh) Fresh	Matrix (Salt, Fresh) Fresh	Matrix (Salt, Fresh) Fresh	Matrix (Salt, Fresh) Fresh
Temp (C) 19.16	Temp (C) 21.02	Temp (C) 19.16	Temp (C) 21.02	Temp (C) 19.16	Temp (C) 21.02
Diss. Oxygen (mg/L) 6.45	Diss. Oxygen (mg/L) 6.95	Diss. Oxygen (mg/L) 6.45	Diss. Oxygen (mg/L) 6.95	Diss. Oxygen (mg/L) 6.45	Diss. Oxygen (mg/L) 6.95
pH 7.48	pH 6.95	pH 7.48	pH 6.95	pH 7.48	pH 6.95
Salinity (ppt) 0.14	Salinity (ppt) 0.06	Salinity (ppt) 0.14	Salinity (ppt) 0.06	Salinity (ppt) 0.14	Salinity (ppt) 0.06
Sample Depts (m) 0.3	Sample Depts (m) 0.1	Sample Depts (m) 0.3	Sample Depts (m) 0.1	Sample Depts (m) 0.3	Sample Depts (m) 0.1
Sp. Conductance (umho/cm) 295	Sp. Conductance (umho/cm) 138	Sp. Conductance (umho/cm) 295	Sp. Conductance (umho/cm) 138	Sp. Conductance (umho/cm) 295	Sp. Conductance (umho/cm) 138
Collection (comp begin or grab) Date 3/28/17 Time 11:10 AM	Collection (comp begin or grab) Date 3/28/17 Time 12:20 PM	Collection (comp begin or grab) Date 3/28/17 Time 11:10 AM	Collection (comp begin or grab) Date 3/28/17 Time 12:20 PM	Collection (comp begin or grab) Date 3/28/17 Time 11:10 AM	Collection (comp begin or grab) Date 3/28/17 Time 12:20 PM
Latitude (Decimal Degrees) 30.3261	Latitude (Decimal Degrees) 30.4544	Latitude (Decimal Degrees) 30.3261	Latitude (Decimal Degrees) 30.4544	Latitude (Decimal Degrees) 30.3261	Latitude (Decimal Degrees) 30.4544
Longitude (Decimal Degrees) -84.1481	Longitude (Decimal Degrees) -84.2204	Longitude (Decimal Degrees) -84.1481	Longitude (Decimal Degrees) -84.2204	Longitude (Decimal Degrees) -84.1481	Longitude (Decimal Degrees) -84.2204
Bottle Group(s) A, C	Bottle Group(s) B, C D, E	Bottle Group(s) A, C	Bottle Group(s) B, C D, E	Bottle Group(s) A, C	Bottle Group(s) B, C D, E

Relinquished By: Diana Turner	Date/Time 3/28/17 1:51 pm	Number of Coolers 2	Received By: HAR	Date/Time 03-28-17 13:31
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Cooler Packing Worksheet for Request: RQ-2017-03-27-11

Sand, Sally, Alford, Eight, Chicken, Lafayette Draine

Ship Cooler On: 3/24/2017

Customer/Project: WQ-ASSESS/SMP

Assigned To: KITCHEN_S

Requester: Curtis Musson

Priority: 3

850-245-8453
Division Of Water Facilities, FL DEP
2600 Blair Stone Rd.
Tallahassee, FL 32399-2400

Attn: curtis musson

Comments:

No preservatives needed.

Group A: Freshwater Kit, No Metals

Group B: Freshwater Kit With Metals

Group C: E.coli

Group D: Organics (Tracers)

Group E: PCR (Markers)

Packing Notes

No FedEx Labels needed, samples will be dropped off at TLH central lab.

Requested Analyses:

Bottle Group: A

of Sites: 5

Container ID: P-1L

Qty: 5 Preservation: ICE

Lot # 00067304

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: 5 Preservation: ICE

Lot # 1191091

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: P-500ML

Qty: 5 Preservation: ICE And H2SO4

Lot # 00066885

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: 5 Preservation: ICE-FLTR

Lot # 00065449

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: 1

Container ID: P-1L

Qty: 1 Preservation: ICE

Lot # 00067304

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: 1 Preservation: ICE

Lot # 1191091

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: P-500ML

Qty: 1 Preservation: HNO3

Lot # 00066885

Description: Plastic Bottle 500 mL

Affix RED nitric acid dot to container.

Analysis

W-ICP

W-ICPMS

Description

Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects

Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects

Container ID: P-500ML

Qty: 1 Preservation: ICE And H2SO4

Lot # 00066885

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: 1 Preservation: ICE-FLTR

Lot # 00065449

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: 3

Container ID: P-250ML-WO-THI

Qty: 3 Preservation: ICE

Lot # 00066792

Description:

Analysis

ECOLI-18QT

Description

Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems

Bottle Group: D

of Sites: 1

Container ID: BG-1L

Qty: 1 Preservation: ICE

Lot # 00066798

Description: Brown Glass Bottle 1L

Affix BLUE dot to container.

Analysis

Description

W-AHERB-AA

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

W-SUC-AA-R

Analysis of sucralose in water matrices by HPLC/MS/MS

W-UHERB-AA

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

Bottle Group: E

of Sites: 1

Container ID: QPCR-P-250ML

Qty: 2

Preservation: ICE

Lot #

L16292

Description:

Analysis

PCR-FILTER

Description

Preparation of Samples by Filtration and held for qPCR Analysis

Cooler Packed By: SK

Date: 3-26-17

DEP Cooler ID #(s): 2 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-2017-03-27-11