

QA 3/2/16



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2016

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 Data Qualified?
☒ Yes / ☐ No

STORET Station Name: Ward Creek Upstream of Bridge at CR 259

Date: 01/26/2016
(mm/dd/yyyy)

STORET Station ID: G1WA0002

Latitude: 30.6050

(Decimal Degrees)

WBID: 459

RQ - 2016-01-25-58

ORG ID: 21FLWQA

Longitude: -83.893257

(Decimal Degrees)

Receiving Body of Water: Lake Miccosukee

Field ID: G1WA0002

County: Jefferson

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Duplicate Collection	Blank Collection
Curtis Musson		XX						
Ben Ralys				XX	XX	NA		

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: <u>Fresh</u> / Marine / DI
Meter ID# <u>BioSly #7</u>	Photos: <u>Yes</u> / No
	Tide Falling: Yes / No / <u>NA</u>

Field Sample

Time Zone	Time	Total Depth (m)	Sample Depth	Temp (°C)	DO (mg/L)	DO (%SAT)	COND (µmhos/cm)	Salinity (ppt)	pH	Secchi Disk (m)
<u>EST</u>	<u>1:00</u>	<u>2.0</u>	<u>0.3m</u>	<u>9.42</u>	<u>6.20</u>	<u>54.1</u> *	<u>74</u>	<u>0.03</u>	<u>6.38</u>	<u>1.7</u>
<u>CEN</u>	<u>1:10</u>		<u>1.9m</u>	<u>9.40</u>	<u>6.11</u>	<u>53.5</u>	<u>83</u>	<u>0.04</u>	<u>6.48</u>	

Biological Samples Collected:		None	HA	SCI	LVS	RPS	LVI	Other _____
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Parameter Suite	Parameter Methods	Preservation	Acid Lot#	Expiration	pH Check
Preserved Nutrients	☒ TKN / TP / Nox / NH3 / TOC ☐ Other _____	☒ Ice ☒ H ₂ SO ₄	<u>5259020</u>	<u>09/16/16</u>	<u>< 2</u>
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO ₃			☐ < 2
Filtered Nutrients	☒ oP ☒ Field Filtered 0.45 µm Filter	☒ Ice			
Chlorophyll	☒ CHLSUITE-W	☒ Ice			
BOD	☒ BOD-INHB ☒ BOD-UNIN	☒ Ice			
Physical/Aggregate	☒ TSS / Turbidity / Alkalinity / Color ☐ Other _____	☒ 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-PSCL-TQA ☐ W-UHERB-AA ☐ W-GLYPH	☐ Ice ☐ Other _____			

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

QA/QC Sample Information

Duplicate

Time Zone: EST CEN		Sample Depth (m): _____		Field ID: _____	
Time: _____		Total Depth (m): _____			
Parameter Suite	Parameter Methods	Preservation	Acid Lot#	Expiration	pH Check
Preserved Nutrients	☐ TKN / TP / Nox / NH3 / TOC ☐ Other _____	☐ Ice ☐ H ₂ SO ₄			☐ < 2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO ₃			☐ < 2
Filtered Nutrients	☐ oP ☐ Field Filtered 0.45 µm Filter	☐ Ice	Place Preservative Sticker(s) Here (If Available)		
Chlorophyll	☐ CHLSUITE-W	☐ Ice			
BOD	☐ BOD-INHB ☐ BOD-UNIN	☐ Ice			
Physical/Aggregate	☐ TSS / Turbidity / Alkalinity / Color ☐ Other _____	☐ Ice			
Microbiology	☐ E Coli ☐ F Coli ☐ Entero ☐ QPCR	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PSCL-TQA ☐ W-UHERB-AA ☐ W-GLYPH	☐ Ice ☐ Other _____			

Blank

Time Zone: EST CEN		Time: _____		Field ID: _____		Location: _____	
☐ Field Blank ☐ Equipment Blank ☐ Field Cleaned Equipment Blank		Equipnet ID: _____					
Parameter Suite	Parameter Methods	Preservation	Acid Lot#	Expiration	pH Check		
Preserved Nutrients	☐ TKN / TP / Nox / NH3 / TOC ☐ Other _____	☐ Ice ☐ H ₂ SO ₄			☐ < 2		
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO ₃			☐ < 2		
Filtered Nutrients	☐ oP ☐ Field Filtered 0.45 µm Filter	☐ Ice	Place Preservative Sticker(s) Here (If Available)				
Chlorophyll	☐ CHLSUITE-W	☐ Ice					
BOD	☐ BOD-INHB ☐ BOD-UNIN	☐ Ice					
Physical/Aggregate	☐ TSS / Turbidity / Alkalinity / Color ☐ Other _____	☐ Ice					
Microbiology	☐ E Coli ☐ F Coli ☐ Entero ☐ QPCR	☐ Ice					
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PSCL-TQA ☐ W-UHERB-AA ☐ W-GLYPH	☐ Ice ☐ Other _____					

Notes:

Did Not Pass DO CCV

Place Label Here
(If Available)

Signature: *Curtis M...*

Date: 1-26-2016

Field Parameters Entered into LIMS: CM 1-27-2016

Field Parameters QC in LIMS: BR 2/15/16

Date Migrated to STORET: DT 4-22-16

Field Sheets Scanned/Saved: _____

1-26-2016

RQ-2016-01-25-58

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

Meter ID: Biology#7Project: SMP/Ward-Cancy-Lake Lorette

Adding "Y" to this box is required data on this page.

- 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 _____

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.	Curtis Musson	1-26-16	747	19.62	9.17	9.18	100.2	28.8	-	P	L
ICV	Curtis Musson	1-26-16	748	19.66	9.17	9.19	100.4	27.7	-	P	L
CCV	Curtis Musson	1-26-16	1456	19.62	9.17	9.99	109.1	32.9	-	Fail	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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	Curtis Musson	1-26-16	753	CC14162	10/15/16	996	996	P	LAB
ICV	Curtis Musson	1-26-16	754	CC14162	10/15/16	996	996	P	LAB
CCV	Curtis Musson	1-26-16	1450	CC13882	7/15/2016	1010	103	P	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.	Curtis Musson	1-26-16	758	156244	10/2017	7.0	7.00	-21.4	P	L
Calibr.	Curtis Musson	1-26-16	801	154634	07/2017	4.0	4.00	152.0	P	L
Calibr.	Curtis Musson	1-26-16	803	146934	10/2016	10.0	10.01	-198.1	P	L
ICV	Curtis Musson	1-26-16	806	154634	07/2017	4.0	3.98	153.7	P	L
CCV	Curtis Musson	1-26-16	1452	156244	10/2017	7.00	6.96	-20.3	P	LAB
CCV										

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 mVDepth (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

Curtis Musson

Request Number: RQ-2016-01-25-58

Caney Creek, Ward Creek and Lake Lafayette Drain

Florida Department of Environmental Protection Central Laboratory Submittal Form

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last revised Nov 10, 2015

Customer: WQAP

Project ID: SMP

Requester: Benjamin Ralys

Collected By: Ben Ralys / Curtis Musson

Field Report Prepared By:

Sampling Agency: FDEP

Location		Lake Lafayette Drain 2.50 Meters Downstream of Weems Rd		☐ Comp	Collection (comp begin or grab)	Date	01-26-2016	Time	0845	☒ Eastern	Composite end	Date		Time		Bottle Group(s)	(See pg 2)	
Field ID	GIWA0007			☒ Grab	Matrix (type, e.g., Salt, Fresh, etc)	Fresh			Diss. Oxygen	6.60	☒ mg/L	Total Res. Chlorine				A		
STORET #	GIWA0007				Temp (C)	10.35			pH	6.22			☐ % sat					
Latitude	30,4544	☐ dd	☒ dms	Longitude	-84.2204	☐ dd	☒ dms	Salinity (ppt)	0.05			Sample Depth	0.3	☐ ft	☒ m			Sp. Conductance (umho/cm)
Location		Caney Creek upstream of US 90		☐ Comp	Collection (comp begin or grab)	Date	01-26-2016	Time	0945	☒ Eastern	Composite end	Date		Time		Bottle Group(s)		
Field ID	GIWA0014			☒ Grab	Matrix (type, e.g., Salt, Fresh, etc)	Fresh			Diss. Oxygen	8.07	☒ mg/L	Total Res. Chlorine				A, B, C		
STORET #	GIWA0014				Temp (C)	0945			pH	6.57			☐ % sat					
Latitude	30.5325	☐ dd	☒ dms	Longitude	-83.9501	☐ dd	☒ dms	Salinity (ppt)	0.04			Sample Depth	0.1	☐ ft	☒ m			Sp. Conductance (umho/cm)
Location		Ward Creek upstream of Bridge at CR 259		☐ Comp	Collection (comp begin or grab)	Date	01/26/2016	Time	1300	☒ Eastern	Composite end	Date		Time		Bottle Group(s)		
Field ID	GIWA002			☒ Grab	Matrix (type, e.g., Salt, Fresh, etc)	Fresh			Diss. Oxygen	6.20	☒ mg/L	Total Res. Chlorine				A		
STORET #	GIWA002				Temp (C)	9.42			pH	6.38			☐ % sat					
Latitude	30.6050	☐ dd	☒ dms	Longitude	-83.893257	☐ dd	☒ dms	Salinity (ppt)	0.03			Sample Depth	0.3	☐ ft	☒ m			Sp. Conductance (umho/cm)
Location				☐ Comp	Collection (comp begin or grab)	Date		Time		☐ Eastern	Composite end	Date		Time		Bottle Group(s)		
Field ID				☐ Grab	Matrix (type, e.g., Salt, Fresh, etc)				Diss. Oxygen		☐ mg/L	Total Res. Chlorine						
STORET #					Temp (C)				pH				☐ % sat					
Latitude		☐ dd	☐ dms	Longitude		☐ dd	☐ dms	Salinity (ppt)				Sample Depth		☐ ft	☐ m			Sp. Conductance (umho/cm)

Relinquished By:	Date/Time	Shipping Method	Received By:	Date/Time	Relinquished By:	Date/Time	Received By:	Date/Time
Curtis Musson	01/26/2016	DWP OFF					MB	1/26/2016 2:25pm

Group: A	Bottle Type:	P-1L	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
	ALKALINITY						
	TURBIDITY						
	W-CL-IC						
	W-COLOR						
	W-F						
	W-NO2						
	W-TDS						
	W-TSS						
Group: A	Bottle Type:	P-1L	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
	BOD-UNIN						
Group: A	Bottle Type:	BP-1L	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
	CHL-CORR-W						
Group: A	Bottle Type:	P-500ML	# of Bottles: 2	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	2
	W-NH3						
	W-NO2NO3						
	W-S-A-TP						
	W-TKN						
	W-TOC						
Group: A	Bottle Type:	P-125ML	# of Bottles: 2	Preservative:	ICE-FLTR	Enter Number of Bottles Sent to Lab	2
	W-PO4-F						
Group: B	Bottle Type:	P-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	ALKALINITY						
	TURBIDITY						
	W-CL-IC						
	W-COLOR						
	W-F						
	W-NO2						
	W-TDS						
	W-TSS						
Group: B	Bottle Type:	P-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	BOD-UNIN						
Group: B	Bottle Type:	BP-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1

						Page 3 of 3
Group: B	Bottle Type: CHL-CORR-W	BP-1L	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab	1
Group: B	Bottle Type: W-ICP W-ICPMS	P-500ML	# of Bottles: 1	Preservative: HNO3	Enter Number of Bottles Sent to Lab	1
Group: B	Bottle Type: W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC	P-500ML	# of Bottles: 1	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab	1
Group: B	Bottle Type: W-PO4-F	P-125ML	# of Bottles: 1	Preservative: ICE-FLTR	Enter Number of Bottles Sent to Lab	1

Grabc M1-FW-QLDC 1 Bottle Forming

2

Cooler Packing Worksheet for Request: RQ-2016-01-25-58

Caney Creek, Ward Creek and Lake Lafayette Drain

Ship Cooler On: 1/15/2016

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:

1 - case of Nitric Acid

Requested Analyses:

Bottle Group: A

of Sites: 2

Container ID: P-1L

Qty: 2 Preservation: ICE

Lot # 00063459

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: 2 Preservation: ICE

Lot # 00063459

Description: Plastic Bottle 1L

Analysis

BOD-UNIN

Description

BOD, NOT nitrogen-inhibited

Container ID: BP-1L

Qty: 2 Preservation: ICE

Lot # 1158198

Description: Brown Plastic Bottle 1L

Analysis

Description

Container ID: P-500ML

Qty: 2 Preservation: ICE And H2SO4

Lot # 00063547

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

AnalysisW-NH3
W-NO2NO3
W-S-A-TP
W-TKN
W-TOCDescriptionAmmonia 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: 2 Preservation: ICE-FLTR

Lot # 00061844

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 # 00063459

Description: Plastic Bottle 1L

AnalysisALKALINITY
TURBIDITY
W-CL-IC
W-COLOR
W-F
W-NO2
W-TDS
W-TSSDescriptionAlkalinity 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: 1 Preservation: ICE

Lot # 00063459

Description: Plastic Bottle 1L

Analysis

BOD-UNIN

Description

BOD, NOT nitrogen-inhibited

Container ID: BP-1L

Qty: 1 Preservation: ICE

Lot # 1158198

Description: Brown Plastic Bottle 1L

Analysis

CHL-CORR-W

Description

Phytoplankton chlorophyll-a (corrected for phaeophytin) and phaeophytin by spectrophotometry

Container ID: P-500ML

Qty: 1 Preservation: HNO3

Lot # 00063547

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 # 00063547

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 # 00061844

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

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

Cooler Packed By: DEC Date: 1/13/16
DEP Cooler ID #(s): 1 cooler

Kit must also include:

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

If Preservation Included:

ID <u>HNO₃</u>	Lot # <u>NA5113210</u>
ID _____	Lot # _____
ID _____	Lot # _____
ID _____	Lot # _____
ID _____	Lot # _____

PLEASE RETURN ALL COOLERS FOR RQ-2016-01-25-58