

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

Meter YSI #4 RQ- 2017-11-13-17 Project Ocklawaha

- 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 10/10/2017

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.	N. Fredrik	11/13/17	0650	22.83	8.61	8.61	100.0	55.3	0.97	P	L
ICV	↓	↓	0652	22.90	8.59	8.62	99.9	55.3	0.97	P	L
CCV	P O'Connor	11-13-17	1410	22.3	8.53	9.52	110.2	55.3	0.97	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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	N. Fredrik	11/13/17	0655	170720A	8/18	1,000	1,000	P	L
ICV	↓	↓	0700	81472017	3/18	147	152	P	L
CCV	P O'Connor	11-13-17	1425	170720A	08-2018	1000	1029	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.	N. Fredrik	11/13/17	0705	2708B60	7/19	7.0	6.99	-28.9	P	L
Calibr.	↓	↓	0710	2710816	9/19	4.0	4.0	148.6	P	L
Calibr.	↓	↓	0715	2704798	9/18	10.0	9.98	-198.8	P	L
ICV	↓	↓	0720	2708B60	7/19	7.0	6.98	-28.9	P	L
CCV	P O'Connor	11-13-17	1427	2704798	09-2018	10.0	9.99	-201.1	P	L
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 10-10-2017

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

BD 12/19/17



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

October 2017

PAGE 1 OF 1

Data Qualified?
Yes / No

Location/STORET Station Name:

Rodman Res 100m W of CR# 39

Date:

11/13/17
(mm/dd/yyyy)

STORET #

WBID:

Latitude:

(Decimal Degrees)

County:

Putnam

RQ

2017-11-13-17

ORG ID: 21 FLA

Longitude:

(Decimal Degrees)

Receiving Body of Water:

Field ID: See label

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment					
Nicol Frederic Pat O'Connor					X	X	X	X	X	☒ Sample Container	☐ Van Dorn	☐ Pole			
										☒ Carboy	☐ Syringe				
										☐ Dipper	☐ Other				
										Equipment ID ORTHO # 7					
Collection Method															
☐ Wading										☐ Canoe/Kayak					
☐ From Shore										☐ Electric Motor					
☐ Other Airboat										☐ Gasoline Motor					
Water Level: Dry / Low / Normal / Above Normal / Flooded										Meter ID# 951 # 4		Matrix: Fresh Marine / DI			
Photos: Yes No										Flow: No Flow Intestinal / Flowing / NA		Tide: Rising / Falling / Slack NA		Tide Times: High Low	
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	1045	0.30	2.0	5.43	60.1	7.61	0.25	1.0	523	20.23					
CEN			4.0												

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			☒ <2
Metals	☐ W-ICPMS ☐ W-ICP					☐ Ice ☐ HNO3			☐ <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-CH-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 ☐ Enterococci					☐ Ice			
Molecular	☐ PCR-FILTER ☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-GFD					☐ Ice			
Tracers	☐ W-SUC-AA-R ☐ W-UHERB-AA ☐ W-AHERB-AA					☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-UHERB-AA ☐ W-AHERB-AA					☐ Ice			
	☐ W-PCL-SQ-R ☐ W-PYR-AA-R ☐ W-GLYPH ☐ W-SUC-AA-R					☐ Other			

Notes:

Field ID:



G1NE00841132017

Rodman Res. 100 M. W
of CM# 39

STORET: 20020110FLA

Signature:

Nicol Frederic

Date:

11/13/17

Field Parameters Entered into LIMS:

(Initials/Date)

Field Parameters QC in LIMS:

(Initials/Date)

Date Migrated to STORET:

(Initials/Date)

Field Sheets Scanned/Saved:

(Initials/Date)



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

PAGE 1 OF 1

Data Qualified?
Yes / No

October 2017

E of Cable Crossing

Location/STORET Station Name: Inund. Ocklawaha R Channel 100A NE Date: 11/13/17

(mm/dd/yyyy)

STORET # _____ WBID: _____ Latitude: _____

(Decimal Degrees)

County: Putnam RQ - 2017-11-13-17 ORG ID: 21 FLA Longitude: _____

(Decimal Degrees)

Receiving Body of Water: _____ Field ID: See label

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment				
<u>Nicole Frederick</u> <u>Pat O'Connor</u>					☒	☒	☒	☒	☒	☒ Sample Container	☐ Van Dorn	☐ Pole		
										☒ Carboy	☐ Syringe			
										☐ Dipper	☐ Other			
										Equipment ID ORTHO # <u>7</u>				
										Collection Method				
					☐ Wading	☐ Canoe/Kayak								
					☐ From Shore	☐ Electric Motor								
					☒ Other <u>Airboat</u>	☐ Gasoline Motor								
Water Level: <u>Dry / Low / Normal / Above Normal / Flooded</u>					Meter ID# <u>YST #4</u>			Matrix: <u>Fresh / Marine / DI</u>						
Photos: <u>Yes / No</u>					Flow: <u>No Flow / Intertidal / Flowing / NA</u>			Tide: <u>Rising / Falling / Slack / NA</u>			Tide Times: <u>High / Low</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°)				
<u>EST</u>	<u>1020</u>	<u>0.30</u>	<u>4.0</u>	<u>6.72</u>	<u>75.1</u>	<u>7.58</u>	<u>0.27</u>	<u>1.0</u>	<u>548</u>	<u>20.70</u>				
CEN														

Biological Samples Collected: <u>None</u> 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			☒ <2	
Metals	☐ W-ICPMS ☐ W-ICP				☐ Ice ☐ HNO3			☐ <2	
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 um Filter				☒ Ice				
Chlorophyll	☒ CHLSUITE-W				☒ Ice				
Physical/Aggregate (Fresh)	☒ Alkalinity / ☒ W-F / ☒ W-TSS / ☒ TURBIDITY / ☒ W-CH-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 ☐ Enterococci				☐ Ice				
Molecular	☐ PCR-FILTER ☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-GFD				☐ Ice				
Tracers	☐ W-SUC-AA-R ☐ W-UHERB-AA ☐ W-AHERB-AA				☐ Ice				
Pesticides	☐ W-PSNP-TQ ☐ W-UHERB-AA ☐ W-AHERB-AA				☐ Ice				
	☐ W-PCL-SQ-R ☐ W-PYR-AA-R ☐ W-GLYPH ☐ W-SUC-AA-R				☐ Other				

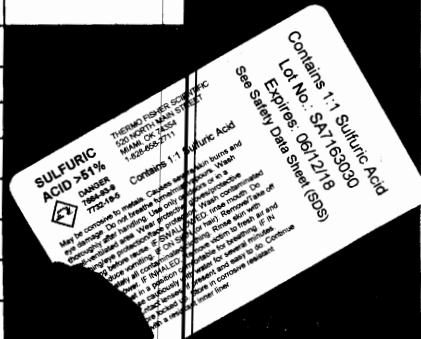
Notes:

Field ID:
G1NE00941132017
Inundated Ocklawaha R.
Channel E. of Cable Crossing
STORET:
20020120FLA

Signature: Nicole Frederick Date: 11/13/17

Field Parameters Entered into LIMS: 12/11/17 (Initials/Date) Field Parameters QC in LIMS: 12/19/17 (Initials/Date)

Date Migrated to STORET: _____ (Initials/Date) Field Sheets Scanned/Saved: _____ (Initials/Date)





FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

PAGE 1 OF

Data Qualified?

Yes / No

October 2017

Location/STORET Station Name:

Deep Cr @ SR 315

Date: 11/13/17

(mm/dd/yyyy)

STORET #

WBID:

Latitude:

(Decimal Degrees)

County:

Putnam

RQ -

2017-11-13-17

ORG ID: 21 FLA

Longitude:

(Decimal Degrees)

Receiving Body of Water:

Field ID: See label

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment				
Nicole Frederick Pat O'Connor					☒	☒	☒	☒	☒	☒ Sample Container	☐ Van Dorn	☐ Pole		
										☐ Carboy	☐ Syringe			
										☐ Dipper	☐ Other			
										Equipment ID ORTHO # 7				
										Collection Method				
					☐ Wading			☐ Canoe/Kayak						
					☐ From Shore			☐ Electric Motor						
					☐ Other Airboat			☐ Gasoline Motor						
Water Level: Dry / Low / Normal / Above Normal / Flooded					Meter ID# 4					Matrix: Fresh Marine / DI				
Photos: Yes No					Flow: No Flow Intertidal / Flowing / NA					Tide: Rising / Falling / Slack / NA				
Tide Times: High Low														
Time Zone	Time	Sample Depth (m)	Total Depth (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPTH)	Secchi Disk (m)	Sp COND (umhos/cm)	Temp. (C°)				
EST	1000	2.00	3.40	3.40	37.4	7.62	0.10	1.50	213	20.06	✓			
CEN		0.40												

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			☒ <2		
Metals	☐ W-ICPMS ☐ W-ICP					☐ Ice ☐ HNO3			☐ <2		
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter					☒ Ice	R7EA2571				
Chlorophyll	☒ CHLSUITE-W					☒ Ice					
Physical/Aggregate (Fresh)	☒ Alkalinity / ☒ W-F / ☒ W-TSS / ☒ TURBIDITY / ☒ W-CH-IC / ☒ W-COLOR / ☒ W-SO4-IC / ☒ W-TDS					☒ Ice					
Physical/Aggregate (Marine)	☐ Alkalinity / ☐ W-F / ☐ W-TSS / ☐ TURBIDITY					☐ Ice					
Macroinvertebrates	☐ MI-FW-QDC					☐ Formalin					
Periphyton	☐ ALGAE-ID					☐ Ice					
Microbiology	☐ E Coli ☐ F Coli ☐ Enterococci					☐ Ice					
Molecular	☐ PCR-FILTER ☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-GFD					☐ Ice					
Tracers	☐ W-SUC-AA-R ☐ W-UHERB-AA ☐ W-AHERB-AA					☐ Ice					
Pesticides	☐ W-PSNP-TQ ☐ W-UHERB-AA ☐ W-AHERB-AA					☐ Ice					
	☐ W-PCL-SQ-R ☐ W-PYR-AA-R ☐ W-GLYPH ☐ W-SUC-AA-R					☐ Ice ☐ Other					

Notes:

Field ID:



G1NE013411132017

Deep Cr @
SR 315

STORET: 20020434

Signature:

[Signature]

Date:

11/13/17

Field Parameters Entered into LIMS:

[Signature]
(Initials/Date)

Field Parameters QC in LIMS:

[Signature]
(Initials/Date)

Date Migrated to STORET:

(Initials/Date)

Field Sheets Scanned/Saved:

(Initials/Date)

Contains 1:1 Sulfuric Acid
Lot No.: SA7163030
Expires: 06/12/18
See Safety Data Sheet (SDS)

Place Preservative
(If Available)



Field Parameters Entered into LIMS: JA 12/11/17 (Initials/Date)
Date Migrated to STORET: _____ (Initials/Date)

Field Parameters QC in LIMS: BSB 12/15/17 (Initials/Date)
Field Sheets Scanned/Saved: _____ (Initials/Date)



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

October 2017

PAGE 1 OF

Data Qualified?

Yes / No

Location/STORET Station Name:

Date:

(mm/dd/yyyy)

STORET #

WBID:

Latitude:

(Decimal Degrees)

County:

Putnam

RQ - 2017-11-13-17

ORG ID: 21 FLA

Longitude:

(Decimal Degrees)

Receiving Body of Water:

Field ID: See label

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Nicole Frederick Pat O'Connor									

Sampling Equipment		
☒ Sample Container	☐ Van Dorn	☐ Pole
☐ Carboy	☐ Syringe	
☐ Dipper	☐ Other	
Equipment ID ORTHO # 7		

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

Water Level: Dry / Low / Normal / <u>Above Normal</u> / Flooded	Meter ID# YSI #4	Matrix: <u>Fresh</u> Marine / DI
Photos: Yes <u>No</u>	Flow: <u>No Flow</u> Intestinal / Flowing / NA	Tide: Rising / Falling / Slack / <u>NA</u>
Tide Times: High	Low	

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	1110	0.30	4.0	3.39	37.4	7.37	0.23	1.0	484	19.94
CEN										

Biological Samples Collected: <u>None</u>	HA	SCI	RPS	Algae ID	LVS	LVI	Other
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SBIO ID Numbers:	SBIO-ID:	HA-ID:	RPS-ID:	Macrophyte-ID:	LIMS#:
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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			☒ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3			☐ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 um Filter	☒ Ice			
Chlorophyll	☒ CHL SUITE-W	☒ Ice			
Physical/Aggregate (Fresh)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CH-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 ☐ Enterococci	☐ Ice			
Molecular	☐ PCR-FILTER ☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-GFD	☐ Ice			
Tracers	☐ W-SUC-AA-R ☐ W-UHERB-AA ☐ W-AHERB-AA	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-UHERB-AA ☐ W-AHERB-AA ☐ W-PCL-SQ-R ☐ W-PYR-AA-R ☐ W-GLYPH ☐ W-SUC-AA-R	☐ Ice ☐ Other			

Notes:

Field ID:



G1NE008811132017

Ocklawaha R Channel
100M. NE. CM # 100

STORET: 20020114FLA

Signature:

Date:

Field Parameters Entered into LIMS:

12/11/17

(Initials/Date)

Field Parameters QC in LIMS:

12/19/17

(Initials/Date)

Date Migrated to STORET:

(Initials/Date)

Field Sheets Scanned/Saved:

(Initials/Date)