

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

Boldly "X" this box if there are qualified data on this page.

Meter ID:

YSI ProDS DSS

RQ:

2019-07-01-10

Project:

URPER East Coast

Notes: (1) Always wait for meter to stabilize before recording any readings.

(2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).

(3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

6/2019

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp °C	Baro- meter mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	J Barnish	7/1/19	835	25.6	761.5	8.2	8.2	100.2	—	—	P/F	L/F
ICV	J	7/1/19	837	26.0	761.5	8.1	8.13	100.3	—	—	P/F	L/F
CCV	B = P =	7/1/19	1500	24.7	761	8.3	8.34	100.5	/	/	P/F	L/F
CCV											P/F	L/F

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 (Pro DSS 0.75 to 1.50); 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.	J Barnish	7/1/19	840	190430A	5/20	1000	7000	P/F	L/F
ICV	J	7/1/19	845	190319B	3/20	100	101.7	P/F	L/F
CCV	B = P =	7/1/19	1506	0424820	6/20	24820	24992	P/F	L/F
CCV								P/F	L/F

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	J Barnish	7/1/19	850	2904CS4	3/21	7.	25.2	7.0	10.3	P/F	L/F
Calibr.	J	7/1/19	851	2904B00	3/21	4.	25.4	4.0	161	P/F	L/F
Calibr.	J	7/1/19	853	2901B51	7/20	10.	25.5	10.0	753	P/F	L/F
ICV	J	7/1/19	855	2904B00	3/21	4.0	25.4	4.01	161	P/F	L/F
CCV	B = P =	7/1/19	1510	2901B51	7/20	10.0	25.0	10.0	-182.6	P/F	L/F
CCV										P/F	L/F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50 ; mV pH 4 Range $+180 \pm 50$; mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 _____, slope from 4 to 7 _____ (both must be between 165 and 180 mV)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification: _____

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: _____; Date of last verification: _____

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value, meters	Pass / Fail	Lab / Field
Pressure mode in air	J Barnish	7/1/19	900	0.00	0.00	P/F	L/F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS:

AB-17-1.7

(7-6-06 V2)

WATERBODY		DATE (M/D/YY):		TIME: (AM)		Case ID#	
Marco Lake		7/1/19		1420			
COUNTY:		LOCATION:			NEAREST TOWN/CITY:		
Doral		marco lake					
Visit Type:		Samples collected:		Samples submitted to:		Photos Taken:	
Initial ☐		☒ yes ☐ no				☒ yes ☐ no	
Recon ☐		Sample collection method:					
Sampling ☐		Single Grab: ☒		Grab Composite: ☐		Depth integrated composite: ☐	
Follow-up ☐							
Sample & Analysis types:		Aqueous: ☐		Surface Scum: ☐		Benthic mat: ☐	
		Tissue: ☐					
Algal ID & enumeration: ☐		Nutrients: ☐		Chl-a: ☐		AGP: ☐	
		Turbidity: ☐		Toxin: ☐			
Estimated size of bloom:		Impounded: ☐ yes ☐ no		Stream/River/Canal		Specify	
				Typical Transect			
Lake/Estuary Typical depth		Inflows: ☐ yes ☐ no		m deep		m deep	
m deep		Outflows: ☐ yes ☐ no		Water velocity		m/s	
				Left bank		Middle	
						Right bank	

Canopy Cover: Open : ☒ Lightly Shaded (11-45%): ☐ Moderately Shaded (46-80%): ☐ Heavily Shaded: ☐

Description of Bloom/ Latitude Longitude
Degrees Minutes Seconds Degrees Minutes Seconds

Present Weather conditions

Print a map from GIS tool or Internet mapping service (e.g., Mapquest, Google Map)

Sketch bloom area on the attached map. Indicate wind direction.

Last rain event _____

Rainfall amount _____

WATER QUALITY	Depth (m):	Temp. (°C):	pH (SU):	D.O. (mg/l):	Cond. (µmho/cm) or Salinity (ppt):	Salinity	Secch (m):
Top							0.4
Mid-depth	8.3	31.4	7.59	5.0/10%	14534	8.34	
Bottom	8.6						
System Type: Stream: ☐ (1st - 2nd order / 3rd - 4th order) 5th - 6th order / 7th order or greater) Lake: ☒ Wetland: ☐ Estuary: ☐ Other: ☐							
Water Odors (check box): Normal: ☒ Sewage: ☐ Petroleum: ☐ Chemical: ☐ Other: ☐							
Water Surface (check box): Clear: ☐ Scum: ☐ Globbs: ☐ Slick: ☐							
Water Clarity (check box): Clear: ☐ Slightly turbid: ☐ Turbid: ☒ Opaque: ☐							
Bloom Color (check box): Green: ☐ Red: ☐ Brown: ☐ Other: ☐							
Notes					Abundance: Absent Rare Common Abundant Periphyton ☐ ☐ ☐ ☐ Fish ☐ ☐ ☐ ☐ Aquatic Macrophytes ☐ ☐ ☐ ☐ Iron/sulfur Bacteria ☐ ☐ ☐ ☐		

TEAM-

AGENCY:

Contains: 1:1 H₂SO₄
Lot No.: SA9129100
Expires: 05/09/20
See Safety Data Sheet (SDS)

[illegible]

Algae Bloom Response-as needed

Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: WQAP

Requester: Jeremy M. Parrish

Field Report Prepared By:

Brianna Travis

Project ID: BLOOM-RESP

Collected By:

B. Travis, J. Parrish

Sampling Agency:

NEP DEAR

Location Marco Lake		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 7/1/19 Time 1420		☒ Eastern ☐ Central	Composite end Date _____ Time _____		Bottle Group(s) (See pg 2) A, B C, D
Field ID		Matrix (type, e.g., Salt, Fresh, etc) Salt		Diss. Oxygen 5.0		☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
WIN/STORET #		Temp (C) 31.4	pH 7.59	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 14,534		
Latitude 30.30344	☒ dd ☐ dms	Longitude -81.6573	☒ dd ☐ dms	Salinity (ppt) 8.34	Comments Algae Sample			
Location		☐ Comp ☐ Grab	Collection (comp begin or grab) Date _____ Time _____		☐ Eastern ☐ Central	Composite end Date _____ Time _____		Bottle Group(s)
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
WIN/STORET #		Temp (C)	pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)		
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt)	Comments			
Location		☐ Comp ☐ Grab	Collection (comp begin or grab) Date _____ Time _____		☐ Eastern ☐ Central	Composite end Date _____ Time _____		Bottle Group(s)
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
WIN/STORET #		Temp (C)	pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)		
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt)	Comments			
Location		☐ Comp ☐ Grab	Collection (comp begin or grab) Date _____ Time _____		☐ Eastern ☐ Central	Composite end Date _____ Time _____		Bottle Group(s)
Field ID		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
WIN/STORET #		Temp (C)	pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)		
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt)	Comments			

Relinquished By: B-T	Date/Time 7/1/19 1630	Shipping Method FedEx	Number of Coolers Shipped: 1	Received By:	Date/Time
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Group: A	Bottle Type: PT-50ML	# of Bottles: 9	Preservative: ICE	Enter Number of Bottles Sent to Lab	1
BLOOM-ID					
Group: B	Bottle Type: BG-250ML-WDMT H	# of Bottles: 9	Preservative: ICE	Enter Number of Bottles Sent to Lab	1
W-MCYST-AA					
Group: C	Bottle Type: BP-1L	# of Bottles: 9	Preservative: ICE	Enter Number of Bottles Sent to Lab	1
CHLSUITE-W					
Group: C	Bottle Type: P-500ML	# of Bottles: 9	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab	1
W-NH3 W-NO2NO3 W-S-A-TP W-TKN					
Group: C	Bottle Type: P-125ML	# of Bottles: 9	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab	1
W-PO4-F					
Group: D	Bottle Type: BP-1L	# of Bottles: 9	Preservative: Lugols	Enter Number of Bottles Sent to Lab	1
DTY-QN-C PKD-QN-BV					