

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: Stitch

RQ: 2020-12-14 38

Project: BMAP 1

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 10/14/20

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.	Kim Appleby	12/15/20	955	21.9	762.6	8.8	-	100.3	-	1.024675	(P) F	(L) F
ICV	↓	↓	956	21.9	762.5	8.8	8.82	100.6	-	1.024675	(P) F	(L) F
CCV	↓	↓	1558	21.4	761.8		8.92	100.7	-		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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	Kim Appleby	12/15/20	1005	2009023	9/2021	1000	1000	(P) F	(L) F
ICV	↓	↓	1007	200902A	9/2021	100	104.2	(P) F	(L) F
CCV	↓	↓	1600	200907B	4/2021	20000	196.2	(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.	Kim Appleby	12/15/20	1026	200631	1/2022	7.00	22.8	7.00	-7.5	(P) F	(L) F
Calibr.	↓	↓	1023	2006806	5/2022	4.00	23.1	4.00	169.0	(P) F	(L) F
Calibr.	↓	↓	1030	2006E28	12/2021	10.00	23.1	10.00	171.5	(P) F	(L) F
ICV	↓	↓	1032	200631	1/2022	7.00	22.8	7.07	-10.4	(P) F	(L) F
CCV	↓	↓	1604	2006B06	5/2022	4.00	23.0	4.05	166.1	(P) F	(L) F
CCV	↓	↓	1608	2006E28	12/2021	10.00	23.0	9.98	-181.1	(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: 10/14/20

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	Kim Appleby	12/15/20	1035	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:



Florida DEP North East District ROC BMAP Field sheet

Data Pass CCV?

Yes No

Date: 12/15/20 RQ#: 2020-12-14-38Event Name: BMAP 1 Meter ID: StretchSampling Team Members: Kelly McDonald + Kim Appleby

All bacteria samples taken are surface water grab samples.

WIN ID/Field ID:  20030760				WBID Number <u>2322</u>		Matrix: Surface ☒ Fresh ☒ Surface Salt ☐		Sample Type: E. coli ☒ Enterococcus ☐ Fecal ☐		Initials Sample & Preservation <u>KM</u>		Initials Documentation <u>KA</u>	
BUTCHER PEN CR AT WESCONNETT				Sample Access: Wading ☐ Dock ☐ From Shore ☐ Bridge ☒		Sample Ice Preserved in 15 minutes? Yes ☒ No ☐							
Time	Total depth(m)	Sample depth(m)	Temp °C	Conductivity µmhos	Salinity ppt	pH s.u.	D.O. mg/L	D.O. % sat	Secchi m	Tide Ebb/ Flood Slack			
<u>1125</u>	<u>0.3</u>	<u>0.3</u>	<u>16.9</u>	<u>381.5</u>	<u>0.18</u>	<u>7.02</u>	<u>2.95</u>	<u>3.4</u>	<u>0.8</u>	<u>Slack</u>			
<u>1302</u>	<u>1.5</u>	<u>1.00</u>	<u>16.9</u>	<u>392.6</u>	<u>0.19</u>	<u>7.2</u>	<u>2.93</u>	<u>3.2</u>					
Comments and Weather: <u>High tide @ Piney Pt 1115</u>													

WIN ID/Field ID:  20030082				WBID Number <u>2322</u>		Matrix: Surface ☒ Fresh ☒ Surface Salt ☐		Sample Type: E. coli ☒ Enterococcus ☐ Fecal ☐		Initials Sample & Preservation <u>KM</u>		Initials Documentation <u>KA</u>	
BUTCHER PEN CR @ CONFEDERATE PT ROAD				Sample Access: Wading ☐ Dock ☐ From Shore ☒ Bridge ☐		Sample Ice Preserved in 15 minutes? Yes ☒ No ☐							
Time	Total depth(m)	Sample depth(m)	Temp °C	Conductivity µmhos	Salinity ppt	pH s.u.	D.O. mg/L	D.O. % sat	Secchi m	Tide Ebb/ Flood Slack			
<u>1330</u>	<u>0.42</u>	<u>0.2</u>	<u>17.1</u>	<u>666</u>	<u>0.33</u>	<u>7.50</u>	<u>8.62</u>	<u>89.5</u>	<u>0.42(5)</u>	<u>Slack</u>			
Comments and Weather:													

WIN / Field ID:  20030801				WBID Number <u>2280A</u>		Matrix: Surface ☒ Fresh ☒ Surface Salt ☐		Sample Type: E. coli ☒ Enterococcus ☐ Fecal ☐		Initials Sample & Preservation <u>KM</u>		Initials Documentation <u>KA</u>	
BIG FISHWEIR CR SF @ HAMILTON ST				Sample Access: Wading ☐ Dock ☐ From Shore ☒ Bridge ☐		Sample Ice Preserved in 15 minutes? Yes ☒ No ☐							
Time	Total depth(m)	Sample depth(m)	Temp °C	Conductivity µmhos	Salinity ppt	pH s.u.	D.O. mg/L	D.O. % sat	Secchi m	Tide Ebb/ Flood Slack			
<u>1240</u>	<u>0.87</u>	<u>0.3</u>	<u>16.9</u>	<u>578</u>	<u>0.28</u>	<u>7.38</u>	<u>4.40</u>	<u>45.4</u>	<u>0.87(5)</u>	<u>Ebb</u>			
Comments and Weather:													

Signature: [Signature] Date: 12/15/20Field Sheet Scanned (Initials/date): KA 12/15/20 Parameters uploaded to LIMs (Initials/date):Data QC'd in LIMs (Initials/date): BD 01/13/2021 Data Migrated to WIN (Initials/date):

WIN / Field ID:  20030953 LITTLE FISHWEIR AT OAK ST.					WBID Number 2280A		Matrix: Surface ☒ Fresh ☒ Surface Salt ☐		Sample Type: E. coli ☒ Enterococcus ☐ Fecal ☐		Initials Sample & Preservation KM		Initials Document-ation KA	
					Sample Access: Wading ☐ Dock ☐ From Shore ☒ Bridge ☐		Sample Ice Preserved in 15 minutes? Yes ☒ No ☐							

Time	Total depth(m)	Sample depth(m)	Temp °C	Conductivity µmhos	Salinity ppt	pH s.u.	D.O. mg/L	D.O. % sat	Secchi m	Tide Ebb/ Flood Slack
1150	0.7	0.3	18.1	469.7	0.23	6.96	2.35	24.0	0.7(s)	Stack 10 Ebb
Comments and Weather:										

WIN ID/Field ID:  20030793 CRAIG CR @ HENDRICKS AVE					WBID Number 2297B		Matrix: Surface ☒ Fresh ☒ Surface Salt ☐		Sample Type: E. coli ☐ Enterococcus ☒ Fecal ☐		Initials Sample & Preservation KM		Initials Document-ation KA	
					Sample Access: Wading ☐ Dock ☐ From Shore ☒ Bridge ☐		Sample Ice Preserved in 15 minutes? Yes ☐ No ☒							

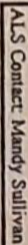
Time	Total depth(m)	Sample depth(m)	Temp °C	Conductivity µmhos	Salinity ppt	pH s.u.	D.O. mg/L	D.O. % sat	Secchi m	Tide Ebb/ Flood Slack
1400	0.49	0.2	17.3	2184	1.13	7.15	3.84	38.5	0.49(s)	Ebb
Comments and Weather:										

WIN ID/Field ID:  20030958 CRAIG CR. 100m DOWN FROM FOOTBRIDGE IN PARK					WBID Number 2297B		Matrix: Surface ☒ Fresh ☒ Surface Salt ☐		Sample Type: E. coli ☐ Enterococcus ☒ Fecal ☐		Initials Sample & Preservation KM		Initials Document-ation KA	
					Sample Access: Wading ☐ Dock ☐ From Shore ☒ Bridge ☐		Sample Ice Preserved in 15 minutes? Yes ☒ No ☐							

Time	Total depth(m)	Sample depth(m)	Temp °C	Conductivity µmhos	Salinity ppt	pH s.u.	D.O. mg/L	D.O. % sat	Secchi m	Tide Ebb/ Flood Slack
1410	0.6	0.3	17.2	2423	1.25	7.28	4.26	42.9	0.3	Ebb
Comments and Weather:										

WIN ID/Field ID:  20030891 GOODBYS CR ABOVE WEST BRANCH AT SAN CLERC					WBID Number 2326A		Matrix: Surface ☒ Fresh ☒ Surface Salt ☐		Sample Type: E. coli ☒ Enterococcus ☐ Fecal ☐		Initials Sample & Preservation KM		Initials Document-ation KA	
					Sample Access: Wading ☐ Dock ☐ From Shore ☒ Bridge ☐		Sample Ice Preserved in 15 minutes? Yes ☒ No ☐							

Time	Total depth(m)	Sample depth(m)	Temp °C	Conductivity µmhos	Salinity ppt	pH s.u.	D.O. mg/L	D.O. % sat	Secchi m	Tide Ebb/ Flood Slack
1430	0.58	0.3	17.0	411.1	0.20	7.50	6.55	67.4	0.58(s)	Ebb
Comments and Weather:										



ALS Contact: Mandy Sullivan