

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:

57166

RQ:

2021-02-01-67

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.	B-V-	2/2/21	743	19.0	760.0	9.3	/	100	/	1.04	(P) F	(L) F
ICV			744	19.2	760.0	9.2	9.25	100.1	/	1.04	(P) F	(L) F
CCV	Jerry Pann	2/2/21	1258	20.4	759	9.0	9.06	100.1	-	-	(P) F	(L) F
CCV							8.96	99.0			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.	B-V-	2/2/21	747	201222B	1/22	1000	1000	(P) F	(L) F
ICV			750	200902A	9/21	100	103.7	(P) F	(L) F
CCV	J Pann	2/2/21	1300	200407B	4/21	20000	19630	(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.	B-V-	2/2/21	753	2006F52	6/22	7.02	21.3	7.0	-13.4	(P) F	(L) F
Calibr.			757	29121371	12/21	4.0	21.5	4.0	162.3	(P) F	(L) F
Calibr.			759	2006E18	12/21	10.04	21.2	10.05	-185.3	(P) F	(L) F
ICV			800	2006F52	6/22	7.02	21.4	7.04	-13.2	(P) F	(L) F
CCV	J Pann	2/2/21	1302	2006E28	12/21	10.00	21.3	10.02	990.7	(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	Brian Davis	2/2/21	801	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: 2/2/2021 RQ#: 2021-02-01-67Event Name: BMAP 1 Meter ID: 5276Sampling Team Members: JP/BD

All bacteria samples taken are surface water grab samples.

WIN Number / Site Name <u>Butcher pen cr at wesconnett</u> <u>20030760</u>				WBID Number		Matrix: Surface ☒ Fresh ☒ Surface Salt ☐		Sample Type: E. coli ☒ Enterococcus ☐ Fecal ☐		Initials Sample & Preservation <u>BD</u>		Initials Documentation <u>JP</u>	
				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>1005</u>	<u>1.1</u>	<u>0.3</u>	<u>10.4</u>	<u>347</u>	<u>0.17</u>	<u>7.49</u>	<u>8.8</u>	<u>78.7</u>	<u>0.8</u>	<u>Slack</u>			
Comments and Weather: <u>E coli</u>													

WIN Number / Site Name <u>Butcher pen cr at confederate</u> <u>20030082</u>				WBID Number		Matrix: Surface ☒ Fresh ☒ Surface Salt ☐		Sample Type: E. coli ☒ Enterococcus ☐ Fecal ☐		Initials Sample & Preservation <u>BD</u>		Initials Documentation <u>JP</u>	
				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>1020</u>	<u>0.6</u>	<u>0.3</u>	<u>11.6</u>	<u>3621</u>	<u>1.92</u>	<u>7.09</u>	<u>7.02</u>	<u>65.5</u>	<u>0.5</u>	<u>Slack</u>			
Comments and Weather: <u>E coli</u>													

WIN Number / Site Name <u>Big fish weir cr SF @ Hamilton St</u> <u>20030801</u>				WBID Number		Matrix: Surface ☒ Fresh ☒ Surface Salt ☐		Sample Type: E. coli ☒ Enterococcus ☐ Fecal ☐		Initials Sample & Preservation <u>BD</u>		Initials Documentation <u>JP</u>	
				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>1035</u>	<u>0.2</u>	<u>0.1</u>	<u>12.7</u>	<u>2538</u>	<u>1.32</u>	<u>7.42</u>	<u>6.68</u>	<u>63.2</u>	<u>0.25</u>	<u>Flood</u>			
Comments and Weather: <u>E coli</u>													

Signature: JP Date: 2/2/21

Field Sheet Scanned (Initials/date): _____ Parameters uploaded to LIMs (Initials/date): _____

Data QC'd in LIMs (Initials/date): BD 2/9/21 Data Migrated to WIN (Initials/date): _____

WIN Number / Site Name Little Fishneir @ Oak St. 20030953					WBID Number		Matrix: Surface ☒ Fresh ☒ Surface Salt ☐		Sample Type: E. coli ☒ Enterococcus ☒ Fecal ☐		Initials Sample & Preservation BD		Initials Documentation JP	
					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	JP	D.O. % sat	Secchi m	Tide Ebb/ Flood Slack			
1050	0.2	0.1	12.0	402	0.19	7.43	8.75		62.3	0.25	Flood			
							6.75			0.03				
Comments and Weather: E. coli														

WIN Number / Site Name Craig creek 100 m Down from Fourbridge in Park 20030958					WBID Number		Matrix: Surface ☒ Fresh ☒ Surface Salt ☐		Sample Type: E. coli ☐ Enterococcus ☒ Fecal ☐		Initials Sample & Preservation BD		Initials Documentation JP	
					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			
1135	0.5	0.3	11.2	7268	2.28	7.24	2.10		14.4	0.4	Flood			
Comments and Weather: Enterococcus														

WIN Number / Site Name Craig creek Hendricks ave 20030793					WBID Number		Matrix: Surface ☒ Fresh ☒ Surface Salt ☐		Sample Type: E. coli ☐ Enterococcus ☒ Fecal ☐		Initials Sample & Preservation BD		Initials Documentation JP	
					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			
1130	0.6	0.3	11.7	720	0.35	7.36	6.5		58.1	0.65	Ebb			
										0.03				
Comments and Weather: Enterococcus														

WIN Number / Site Name Goodbys CR above West Branch at San Clerc 20030891					WBID Number		Matrix: Surface ☒ Fresh ☒ Surface Salt ☐		Sample Type: E. coli ☒ Enterococcus ☐ Fecal ☐		Initials Sample & Preservation BD		Initials Documentation JP	
					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			
1155	0.4	0.2	10.4	402	0.19	7.68	9.47		84.6	0.45	Ebb			
										0.03				
Comments and Weather: E. coli														



CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

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