

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: Pesi RQ: 2020-10-26-27 Project: BMAP 2

- 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.	<u>Bligh D.</u>	<u>10/28/20</u>	<u>911</u>	<u>23.3</u>	<u>762.1</u>	<u>8.6</u>	<u>8.6</u>	<u>100.3</u>	<u>✓</u>	<u>1.06</u>	<u>(P) F</u>	<u>(L) F</u>
ICV			<u>913</u>	<u>23.2</u>	<u>762.7</u>	<u>8.6</u>	<u>8.59</u>	<u>100.4</u>	<u>✓</u>	<u>1.06</u>	<u>(P) F</u>	<u>(L) F</u>
CCV			<u>1310</u>	<u>23.7</u>	<u>761.6</u>	<u>8.5</u>	<u>8.49</u>	<u>100.2</u>	<u>✓</u>	<u>1.06</u>	<u>(P) F</u>	<u>(L) F</u>
CCV											<u>P / F</u>	<u>L / F</u>

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.	<u>Bligh D.</u>	<u>10/28/20</u>	<u>848</u>	<u>200902B</u>	<u>9/21</u>	<u>1000</u>	<u>1000</u>	<u>(P) F</u>	<u>(L) F</u>
ICV			<u>852</u>	<u>200407B</u>	<u>4/21</u>	<u>20,000</u>	<u>19,521</u>	<u>(P) F</u>	<u>(L) F</u>
CCV			<u>1320</u>	<u>200902A</u>	<u>9/21</u>	<u>100</u>	<u>102.6</u>	<u>(P) F</u>	<u>(L) F</u>
CCV								<u>P / F</u>	<u>L / F</u>

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.	<u>Bligh D.</u>	<u>10/28/20</u>	<u>855</u>	<u>2001C31</u>	<u>1/22</u>	<u>7.0</u>	<u>24.3</u>	<u>7.01</u>	<u>-23.2</u>	<u>(P) F</u>	<u>(L) F</u>
Calibr.			<u>900</u>	<u>2006B06</u>	<u>5/22</u>	<u>4.0</u>	<u>24.3</u>	<u>4.0</u>	<u>155.0</u>	<u>(P) F</u>	<u>(L) F</u>
Calibr.			<u>902</u>	<u>2002911</u>	<u>8/22</u>	<u>10.01</u>	<u>24.3</u>	<u>10.01</u>	<u>-196.2</u>	<u>(P) F</u>	<u>(L) F</u>
ICV			<u>904</u>	<u>2001C31</u>	<u>1/22</u>	<u>7.0</u>	<u>24.4</u>	<u>7.03</u>	<u>-22.7</u>	<u>(P) F</u>	<u>(L) F</u>
CCV			<u>1322</u>	<u>2006B06</u>	<u>5/22</u>	<u>4.0</u>	<u>24.2</u>	<u>40</u>	<u>154.4</u>	<u>(P) F</u>	<u>(L) F</u>
CCV										<u>P / F</u>	<u>L / F</u>

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	<u>Bligh Davis</u>	<u>10/28/20</u>	<u>906</u>	<u>0.00</u>	<u>0.00</u>	<u>(P) F</u>	<u>(L) F</u>

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: 10/28/20 RQ#: 2020-10-26-27Event Name: BMAP 2 Meter ID: DesiSampling Team Members: Brian D., Kelly M.

All bacteria samples taken are surface water grab samples.

WIN ID/Field ID:  20030848				WBID Number <u>2299B</u>		Matrix: Surface ☒ Fresh ☒ Surface Salt ☐		Sample Type: E. coli ☒ Enterococcus ☐ Fecal ☐		Initials Sample & Preservation		Initials Documentation	
NW TRIBUTARY TO OPEN CR AT HODGES				Sample Access: Wading ☐ Dock ☐ From Shore ☒ Bridge ☐		Sample Ice Preserved in 15 minutes? Yes ☒ No ☐				KM		BD	
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			
1000	0.3	0.15	25.0	331.0	0.16	6.99	5.80	70.2	VOB				
Comments and Weather:													

WIN ID/Field ID:  20030653				WBID Number <u>2204</u>		Matrix: Surface ☒ Fresh ☒ Surface Salt ☐		Sample Type: E. coli ☒ Enterococcus ☐ Fecal ☐		Initials Sample & Preservation		Initials Documentation	
TERRAPIN CR AT FAYE ROAD				Sample Access: Wading ☐ Dock ☐ From Shore ☒ Bridge ☐		Sample Ice Preserved in 15 minutes? Yes ☒ No ☐				KM		BD	
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			
1040	0.1	0.05	24.1	158.2	0.07	6.91	5.75	68.5	VOB				
Comments and Weather:													

WIN / Field ID:  20030123				WBID Number <u>2203B</u>		Matrix: Surface ☐ Fresh ☐ Surface Salt ☒		Sample Type: E. coli ☐ Enterococcus ☒ Fecal ☐		Initials Sample & Preservation		Initials Documentation	
TROUT R @ DINSMORE BOAT RAMP DOCK NR US 1				Sample Access: Wading ☐ Dock ☒ From Shore ☐ Bridge ☐		Sample Ice Preserved in 15 minutes? Yes ☒ No ☐				KM		BD	
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			
1115	0.9	0.3	24.4	302.5	0.14	6.58	3.57	42.7	0.4	Ebb			
Comments and Weather:													

Signature: Kelly A McDonald Date: 10/28/2020

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

Data QC'd in LIMS (Initials/date): BD 11/17/2020 Data Migrated to WIN (Initials/date): _____

WIN / Field ID:  20030753					WBID Number 2203		Matrix: Surface ☒ Fresh ☒ Surface Salt ☐		Sample Type: E. coli ☒ Enterococcus ☐ Fecal ☐		Initials Sample & Preservation		Initials Documentation	
TROUT RIVER AT OLD KINGS RD					Sample Access: Wading ☐ Dock ☐ From Shore ☒ Bridge ☐		Sample Ice Preserved in 15 minutes? Yes ☒ No ☐				KM		BD	
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	1.7	0.3	23.6	119.4	4.006	6.47	5.13	60.5	0.4	Ebb				
1132	1.7	1.2	23.6	119.3	0.06	6.45	5.16	60.7	0.4	Ebb				
Comments and Weather: Several animal carcasses downstream in Harrell St. Culvert														

WIN / Field ID:  20030897					WBID Number 2228B		Matrix: Surface ☒ Fresh ☒ Surface Salt ☐		Sample Type: E. coli ☒ Enterococcus ☐ Fecal ☐		Initials Sample & Preservation		Initials Documentation	
MONCRIEF CR @ 21ST ST					Sample Access: Wading ☐ Dock ☐ From Shore ☒ Bridge ☐		Sample Ice Preserved in 15 minutes? Yes ☒ No ☐				KM		BT	
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				
1205	0.15	0.05	25.5	449.0	0.21	7.15	4.46	54.6	10.3					
Comments and Weather:														

WIN / Field ID:  20030726					WBID Number 2228B		Matrix: Surface ☒ Fresh ☒ Surface Salt ☐		Sample Type: E. coli ☒ Enterococcus ☐ Fecal ☐		Initials Sample & Preservation		Initials Documentation	
MONCRIEF CR AT MONCRIEF ROAD					Sample Access: Wading ☐ Dock ☐ From Shore ☒ Bridge ☐		Sample Ice Preserved in 15 minutes? Yes ☒ No ☐				KM		BT	
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				
1220	0.5	0.25	25.7	378.9	0.18	7.19	3.79	46.5	10.3	Ebb				
Comments and Weather:														

WIN Number / Site Name					WBID Number		Matrix: Surface ☐ Fresh ☐ Surface Salt ☐		Sample Type: E. coli ☐ Enterococcus ☐ Fecal ☐		Initials Sample & Preservation		Initials Documentation	
					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				
Comments and Weather:														



CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

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Page 1 of 1

CD 11

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