

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:

BMAP2 Stitch

RQ:

2020-11-16-35

Project:

BMAP2

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	11/17/20	9:10	21.3	769.1	9.0	8.97	101.2	-	1.037158	(P/F)	(L/F)
ICV	↓	↓	9:12	21.3	769.0	9.0	8.97	101.2	-	1.037158	(P/F)	(L/F)
CCV	↓	↓	1443	23.0	767.1	8.7	8.79	101.9	-	1.037158	(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.	Kim Appleby	11/17/20	9:14	200902B	9/2021	1000	1000	(P/F)	(L/F)
ICV	↓	↓	9:16	200902A	9/2021	100	103.2	(P/F)	(L/F)
CCV	↓	↓	1445	200407B	4/2021	20,000	19,520	(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	11/17/20	9:23	2001631	1/2022	7.00	22.8	7.00	-48.3	(P/F)	(L/F)
Calibr.	↓	↓	9:25	2006B06	5/2022	4.00	22.8	4.00	129.5	(P/F)	(L/F)
Calibr.	↓	↓	9:27	2002911	8/2021	10.00	22.8	10.00	-217.4	(P/F)	(L/F)
ICV	↓	↓	9:30	2001631	1/2022	7.00	22.8	7.05	-48.1	(P/F)	(L/F)
CCV	↓	↓	1447	2006B06	5/2022	4.00	23.1	4.02	128.0	(P/F)	(L/F)
CCV	↓	↓	1449	2002911	8/2021	10.00	22.9	4.97	-217.3	(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	11/17/20	9:32	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: 11/17/2020 RQ#: 2020-11-16-35
 Event Name: BMAP 2 ^{Appleby} Meter ID: Pro DSS Stitch
 Sampling Team Members: K. Appleby, K. McDonald
 All bacteria samples taken are surface water grab samples.

WIN ID/Field ID:  20030848		WBID Number <u>22998</u>	Matrix: Surface ☒ Fresh ☒ Surface Salt ☐	Sample Type: E. coli ☒ Enterococcus ☐ Fecal ☐	Initials Sample & Preservation <u>KM</u>	Initials Documentation <u>KA</u>				
NW TRIBUTARY TO OPEN CR AT HODGES		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>0.42</u>	<u>0.2</u>	<u>20.0</u>	<u>407.5</u>	<u>0.21</u>	<u>6.92</u>	<u>6.96</u>	<u>76.7</u>	<u>0.42(5)</u>	<u>Ebb</u>
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 <u>KM</u>	Initials Documentation <u>KA</u>				
TERRAPIN CR AT FAYE 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>1130</u>	<u>0.1</u>	<u>0.05</u>	<u>17.4</u>	<u>151.7</u>	<u>0.07</u>	<u>6.46</u>	<u>6.97</u>	<u>72.6</u>	<u>0.1</u>	<u>Ebb</u>
Comments and Weather:										

WIN / Field ID:  20030123		WBID Number <u>22038</u>	Matrix: Surface ☒ Fresh ☒ Surface Salt ☐	Sample Type: E. coli ☐ Enterococcus ☒ Fecal ☐	Initials Sample & Preservation <u>KM</u>	Initials Documentation <u>KA</u>				
TROUT R @ DINSMORE BOAT RAMP DOCK NR US 1		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>1200</u>	<u>1.53</u>	<u>0.3</u>	<u>20.3</u>	<u>337.5</u>	<u>1.78</u>	<u>6.80</u>	<u>4.55</u>	<u>51.0</u>	<u>0.55</u>	<u>Flood</u>
<u>1202</u>		<u>1.0</u>	<u>20.4</u>	<u>361.8</u>	<u>1.95</u>	<u>6.80</u>	<u>4.58</u>	<u>51.1</u>		
Comments and Weather: <u>high 1151 ; low 1819</u>										

Signature: [Signature] Date: 11/17/20

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

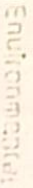
Data QC'd in LIMs (Initials/date): BD 12/21/20 Data Migrated to WIN (Initials/date): _____

WIN / Field ID:  20030753				WBID Number 2203		Matrix: Surface ☐ Fresh ☐ Surface Salt ☐		Sample Type: E. coli ☒ Enterococcus ☐ Fecal ☐		Initials Sample & Preservation KM		Initials Documentation KA	
TROUT RIVER AT OLD KINGS RD				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			
1215													
Comments and Weather: <i>Did not take a sample. Flooded.</i>													

WIN / Field ID:  20030897				WBID Number 2228B		Matrix: Surface ☒ Fresh ☒ Surface Salt ☐		Sample Type: E. coli ☒ Enterococcus ☐ Fecal ☐		Initials Sample & Preservation KM		Initials Documentation KA	
MONCRIEF CR @ 21ST 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			
1230	0.1	0.05	20.6	445.0	0.21	7.26	5.72	63.5	0.1(5)				
Comments and Weather:													

WIN / Field ID:  20030726				WBID Number 2228B		Matrix: Surface ☒ Fresh ☒ Surface Salt ☐		Sample Type: E. coli ☒ Enterococcus ☐ Fecal ☐		Initials Sample & Preservation KM		Initials Documentation KA	
MONCRIEF CR AT MONCRIEF 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			
1245	1.13	0.3	20.2	320.2	0.15	7.08	3.82	423	1.13	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:													



SR #	ALS Contact: Mandy Sullivan
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