

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: Bruce RQ: 2021-08-30-21 Project: BMAP

- 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 8/16/21

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. Lee	9/2/21	0752	22.4	758.0	8.7	8.7	99.7	—	1.04	P/F	L/F
ICV			0755	22.5	758.1	8.7	8.67	99.9	—	1.04	P/F	L/F
CCV	J Pamsk	9/2/21	1130	22.1	758	8.7	8.77	100.6	—	—	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 µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	J. Lee	9/2/21	0744	2104265	05/22	1000	1000	P/F	L/F
ICV			0746	2104265	05/22	1000	100.9	P/F	L/F
CCV	J Pamsk	9/2/21	1131	2104266	5/22	1413	1397	P/F	L/F
CCV								P/F	L/F

Conductivity Acceptance criteria ± 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. Lee	9/2/21	0759	2104E81	04/23	7.01	22.8	7.01	-31.1	P/F	L/F
Calibr.			0801	2103G59	03/23	4.00	22.8	4.00	143.3	P/F	L/F
Calibr.			0804	2107A04	12/22	10.02	22.8	10.02	-201.6	P/F	L/F
ICV			0805	2103G59	03/23	4.00	22.7	4.02	140.2	P/F	L/F
CCV	J Pamsk	9/2/21	1133	2107A04	12/22	10.00	22.5	10.01	-203.4	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 ± 50; mV pH 10 Range -180 ± 50;
If mV are recorded: slope from 7 to 10 167.5, slope from 4 to 7 177.4 (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: 8/18/21
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. Lee	9/2/21	0806	0.00	0.00	P/F	L/F

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

COMMENTS:



Florida DEP North East District ROC BMAP Field sheet

Data Pass CCV?

Yes/No

Date: 9/21/2021 RQ#: 2021-08-30-21Event Name: BMAP 2 Meter ID: Y52 BN 2Sampling Team Members: J Parnish J Lee

All bacteria samples taken are surface water grab samples.

WIN Number / Site Name <u>20030848 NW tributary to open CR AT HODGES</u>					WBID Number <u>2299 B</u>		Matrix: Surface ☒ Fresh ☒ Surface Salt ☐		Sample Type: E. coli ☒ Enterococcus ☐ Fecal ☐		Initials Sample & Preservation <u>JL</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>850</u>	<u>0.15</u>	<u>0.07</u>	<u>26.7</u>	<u>204.9</u>	<u>0.10</u>	<u>6.76</u>	<u>5.76</u>	<u>71.9</u>	<u>0.15</u>	<u>g</u> <u>NH</u>				
Comments and Weather:														

WIN Number / Site Name <u>20030653 Terrapin CR @ Faye Rd.</u>					WBID Number <u>2204</u>		Matrix: Surface ☒ Fresh ☒ Surface Salt ☐		Sample Type: E. coli ☒ Enterococcus ☐ Fecal ☐		Initials Sample & Preservation <u>JL</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>930</u>	<u>0.1</u>	<u>0.05</u>	<u>25.4</u>	<u>98.8</u>	<u>0.05</u>	<u>6.72</u>	<u>5.99</u>	<u>72.8</u>	<u>0.1</u>	<u>0.1</u>				
Comments and Weather:														

WIN Number / Site Name <u>20030123 Trout R @ Dinsmore Boat Ramp Park WR US 1</u>					WBID Number <u>2203 B</u>		Matrix: Surface ☒ Fresh ☒ Surface Salt ☐		Sample Type: E. coli ☐ Enterococcus ☒ Fecal ☐		Initials Sample & Preservation <u>JL</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>955</u>	<u>0.5</u>	<u>0.3</u>	<u>26.7</u>	<u>128</u>	<u>0.06</u>	<u>6.54</u>	<u>3.4</u>	<u>44.8</u>	<u>0.4</u>	<u>Ebb</u>				
Comments and Weather:														

Signature: [Signature] Date: 9/21/21

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

Data QC'd in LIMS (Initials/date): BD 10/21/21 Data Migrated to WIN (Initials/date): 29212 JP

WIN Number / Site Name 20030753 Trout River AT old Kings Rd					WBID Number 2203		Matrix: Surface ☒ Fresh ☒ Surface Salt ☐		Sample Type: E. coli ☒ Enterococcus ☐ Fecal ☐		Initials Sample & Preservation JL		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				
1005	0.4	0.3	25.4	55.1	0.02	6.63	5.86	55.1	0.3	—				

Comments and Weather:

WIN Number / Site Name 20030897 Moncrief CR 200308 @ 21st ST					WBID Number 2228 B		Matrix: Surface ☒ Fresh ☒ Surface Salt ☐		Sample Type: E. coli ☒ Enterococcus ☐ Fecal ☐		Initials Sample & Preservation JL		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				
1025	0.1	0.05	25.7	462	0.22	7.00	2.64	32.0	0.15	Na				

Comments and Weather:

WIN Number / Site Name 20030726 Moncrief CR AT Moncrief RD					WBID Number 2228 B		Matrix: Surface ☒ Fresh ☒ Surface Salt ☐		Sample Type: E. coli ☒ Enterococcus ☐ Fecal ☐		Initials Sample & Preservation JL		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				
1035	0.67	0.3	26.9	341	0.16	7.15	3.44	43.1	0.65	—				

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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