

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: Pro DSS Bruce

RQ: 2021-06-07-34

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 5/17/21

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.	K. McDonald	6/2/21	0744	19.0	763.6	9.3	-	100.5	-	1.062	P/F	L/F
ICV	↓	↓	0745	18.9	763.6	9.3	9.4	101.2	-	1.062	P/F	L/F
CCV	Kim Appleby	↓	1100	22.4	763.1		8.92	103.0	-	1.062	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.	K. McDonald	6/2/21	0747	201222B	01/2022	1000	1000	P/F	L/F
ICV	↓	↓	0750	201222A	01/2022	100	102.8	P/F	L/F
CCV	Kim Appleby	↓	1406	210226E	5/2022	2000	49787	P/F	L/F
CCV						50000		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.	K. McDonald	6/2/21	0753	2010F27	10/2022	7.02	17.7	7.02	-23.7	P/F	L/F
Calibr.	↓	↓	0757	2010C31	09/2022	4.00	17.6	4.00	135.6	P/F	L/F
Calibr.	K. McDonald	↓	0800	2103F53	09/2022	10.05	20.0	10.05	-191.7	P/F	L/F
ICV	Kim Appleby	↓	0807	2010C31	09/2022	4.00	18.0	4.07	133.2	P/F	L/F
CCV	Kim Appleby	↓	1409	2103F53	9/2022	10.00	21.5	10.04	-190.8	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 10 168, slope from 4 to 7 159.3 (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: 5/17/21

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	K. McDonald	6/2/21	0803	0.000	0.000	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?

Test No.

Date: 6/2/21RQ#: 2021-DU-07-34Event Name: BMAP 1Meter ID: Pro DSS BruceSampling Team Members: K. McDonald, K. 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>855</u>	<u>1.24</u>	<u>0.3</u>	<u>23.2</u>	<u>81762</u>	<u>0.89</u>	<u>6.82</u>	<u>1.99</u>	<u>23.7</u>	<u>0.8</u>	<u>Ebb</u>			
Comments and Weather: <u>Sunny, no recent rain, 80°</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>915</u>	<u>0.52</u>	<u>0.3</u>	<u>26.7</u>	<u>7115</u>	<u>3.90</u>	<u>6.96</u>	<u>4.93</u>	<u>62.6</u>	<u>0.35</u>	<u>Ebb</u>			
Comments and Weather: <u>Sunny, no recent rain, 80°</u>													

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>1005</u>	<u>0.52</u>	<u>0.3</u>	<u>24.5</u>	<u>3456</u>	<u>1.83</u>	<u>7.18</u>	<u>3.32</u>	<u>39.9</u>	<u>0.52(5)</u>	<u>Ebb</u>			
Comments and Weather: <u>Sunny, no recent rain, 80°</u>													

Signature: K. ApplebyDate: 6/2/21Field Sheet Scanned (Initials/date): KA 6/2/21

Parameters uploaded to LIMS (Initials/date):

Data QC'd in LIMS (Initials/date): BD 07/01/21

Data Migrated to WIN (Initials/date):

WIN / Field ID:  20030953				WBID Number 2280A		Matrix: Surface ☒ Fresh ☐ Surface Salt ☐		Sample Type: E. coli ☐ Enterococcus ☐ Fecal ☐		Initials Sample & Preservation KM		Initials Documentation KA	
LITTLE FISHWEIR AT OAK 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			
1020	0.71	0.3	23.7	478.8	0.23	7.27	3.23	38.2	0.71(5)	Slack			
Construction is JEA repair of storm sewer													
Comments and Weather: Construction on road near site; 1st sample taken upstream of sunny, 80s, no recent rain turbidity boom, pictures taken, sent													

WIN ID/Field ID:  20030793				WBID Number 2297B		Matrix: Surface ☒ Fresh ☐ Surface Salt ☐		Sample Type: E. coli ☐ Enterococcus ☒ Fecal ☐		Initials Sample & Preservation KM		Initials Documentation KA	
CRAIG CR @ HENDRICKS AVE				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			
1055	0.61	0.3	27.4	22530	13.57	6.75	0.44	5.5	0.4	Slack			
				22807	13.69		0.86	19.120					
Comments and Weather: more turbid than usual (chocolate milk color) Sunny, 80s, no recent rain													

WIN ID/Field ID:  20030958				WBID Number 2297B		Matrix: Surface ☒ Fresh ☐ Surface Salt ☐		Sample Type: E. coli ☐ Enterococcus ☒ Fecal ☐		Initials Sample & Preservation KM		Initials Documentation KA	
CRAIG CR. 100m DOWN FROM FOOTBRIDGE IN PARK				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			
1105	0.62	0.3	26.9	22377	13.49	6.91	2.02	27.5	0.4	Ebb			
Comments and Weather: more turbid than usual (chocolate milk color) Sunny, 80s, no recent rain													

WIN ID/Field ID:  20030891				WBID Number 2326A		Matrix: Surface ☒ Fresh ☐ Surface Salt ☐		Sample Type: E. coli ☒ Enterococcus ☐ Fecal ☐		Initials Sample & Preservation KM		Initials Documentation KA	
GOODBYS CR ABOVE WEST BRANCH AT SAN CLERC				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	0.46	0.2	23.6	14610	0.72	7.38	3.19	37.5	0.46(5)	Ebb			
				1620	0.82	7.38	2.73	32.3					
Comments and Weather: Sunny, 80s, no recent rain													

