

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: 5716

RQ: 2021-07-05-31

Project: BMAP 1
SAPP km

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.	<u>Brian Davis</u>	<u>7/1/21</u>	<u>742</u>	<u>21.3</u>	<u>763.2</u>	<u>8.9</u>	<u>8.9</u>	<u>100.4</u>	<u>✓</u>	<u>1.03</u>	<u>P/F</u>	<u>C/F</u>
ICV	<u>↓</u>	<u>↓</u>	<u>743</u>	<u>21.3</u>	<u>763.2</u>	<u>8.9</u>	<u>8.91</u>	<u>100.4</u>	<u>✓</u>	<u>1.03</u>	<u>P/F</u>	<u>C/F</u>
CCV	<u>↓</u>	<u>↓</u>	<u>1240</u>	<u>22.5</u>	<u>762.9</u>	<u>8.7</u>	<u>8.74</u>	<u>100.8</u>	<u>✓</u>	<u>1.03</u>	<u>P/F</u>	<u>C/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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	<u>Brian Davis</u>	<u>7/1/21</u>	<u>734</u>	<u>210426B</u>	<u>5/22</u>	<u>1000</u>	<u>1000</u>	<u>P/F</u>	<u>C/F</u>
ICV			<u>738</u>	<u>210426A</u>	<u>5/22</u>	<u>100</u>	<u>101.3</u>	<u>P/F</u>	<u>C/F</u>
CCV			<u>1242</u>	<u>210426C</u>	<u>5/22</u>	<u>1413</u>	<u>1402</u>	<u>P/F</u>	<u>C/F</u>
CCV			<u>1243</u>	<u>210426D</u>	<u>5/22</u>	<u>20,000</u>	<u>19,973</u>	<u>P/F</u>	<u>C/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>Brian Davis</u>	<u>7/1/21</u>	<u>753</u>	<u>2012E39</u>	<u>12/22</u>	<u>7.01</u>	<u>21.9</u>	<u>7.01</u>	<u>-23.3</u>	<u>P/F</u>	<u>C/F</u>
Calibr.			<u>757</u>	<u>2103659</u>	<u>6/2/21</u>	<u>4.00</u>	<u>22.2</u>	<u>4.00</u>	<u>152.8</u>	<u>P/F</u>	<u>C/F</u>
Calibr.			<u>802</u>	<u>2103F53</u>	<u>9/22</u>	<u>10.03</u>	<u>22.2</u>	<u>10.03</u>	<u>-200.3</u>	<u>P/F</u>	<u>C/F</u>
ICV			<u>804</u>	<u>2012E39</u>	<u>12/22</u>	<u>4.00</u>	<u>22.1</u>	<u>7.03</u>	<u>-24.1</u>	<u>P/F</u>	<u>C/F</u>
CCV			<u>1245</u>	<u>2103F53</u>	<u>9/22</u>	<u>10.04</u>	<u>21.0</u>	<u>9.99</u>	<u>-177.2</u>	<u>P/F</u>	<u>C/F</u>
CCV			<u>1247</u>	<u>2103G59</u>	<u>6/2/21</u>	<u>4.00</u>	<u>21.2</u>	<u>4.05</u>	<u>149.9</u>	<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 10 177.0, slope from 4 to 7 176.1 (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	<u>Brian Davis</u>	<u>7/1/21</u>	<u>806</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: 7/1/2021 RQ#: 2021-07-05-31Event Name: BMAP 1Meter ID: Pro DSS StitchSampling Team Members: K. McDonald & B. Davis

All bacteria samples taken are surface water grab samples.

WIN ID/Field ID:



20030760

BUTCHER PEN CR AT WESCONNETT

WBID Number

2322

Matrix:
Surface
Fresh ☒
Surface Salt
☐

Sample Type:

E. coli ☒
Enterococcus ☐
Fecal ☐Initials
Sample &
PreservationInitials
Document-
ationSample Access:
Wading ☐ Dock ☐
From Shore ☐ Bridge ☒Sample Ice Preserved in 15
minutes?
Yes ☒
No ☐

BD

KM

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
0925	1.10	0.3	24.9	312.0	0.15	7.22	5.80	70.2	1.10	Ebb
									V08	

Comments and Weather:

overcast + recent rain

WIN ID/Field ID:



20030082

BUTCHER PEN CR @ CONFEDERATE PT ROAD

WBID Number

2322

Matrix:
Surface
Fresh ☒
Surface Salt
☐

Sample Type:

E. coli ☒
Enterococcus ☐
Fecal ☐Initials
Sample &
PreservationInitials
Document-
ationSample Access:
Wading ☐ Dock ☐
From Shore ☐ Bridge ☒Sample Ice Preserved in 15
minutes?
Yes ☒
No ☐

BD

KM

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
0940	0.6	0.3	26.1	325.0	0.15	7.06	3.55	43.8	0.6	Ebb
									V08	

Comments and Weather:

overcast ~ mid 70s
vandorn → Heman

WIN / Field ID:



20030801

BIG FISHWEIR CR SF
@ HAMILTON ST

WBID Number

2280A

Matrix:
Surface
Fresh ☒
Surface Salt
☐

Sample Type:

E. coli ☒
Enterococcus ☐
Fecal ☐Initials
Sample &
PreservationInitials
Document-
ationSample Access:
Wading ☐ Dock ☐
From Shore ☒ Bridge ☐Sample Ice Preserved in 15
minutes?
Yes ☒
No ☐

BD

KM

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
0955	0.72	0.3	25.1	525	0.25	7.48	5.75	69.7	0.72	Ebb
									V08	

Comments and Weather:

observed homeless camp

Signature: Kelly McDonaldDate: 7/1/2021

Field Sheet Scanned (Initials/date):

Parameters uploaded to LIMs (Initials/date):

Data QC'd in LIMs (Initials/date): BD 08/17/2021

Data Migrated to WIN (Initials/date):

WIN / Field ID:



20030953

LITTLE FISHWEIR AT OAK ST.

WBID Number

2280 A

 Matrix:
 Surface ☐
 Fresh ☒
 Surface Salt ☐

Sample Type:

 E. coli ☒
 Enteric ☐
 Fecal ☐
Initials
Sample &
PreservationInitials
Document-
ation

Sample Access:

 Wading ☐ Dock ☐
 From Shore ☒ Bridge ☐

 Sample Ice Preserved in 15
 minutes?
 Yes ☒
 No ☐

BD

km

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
1015	0.453	0.2	25.2	438.0	0.21	7.19	4.46	53.5	0.453	Ebb
									V0B	

Comments and Weather:

construction ongoing; sunny

WIN ID/Field ID:



20030793

CRAIG CR @ HENDRICKS AVE

WBID Number

2297 B

 Matrix:
 Surface ☐
 Fresh ☒
 Surface Salt ☐

Sample Type:

 E. coli ☐
 Enteric ☒
 Fecal ☐
Initials
Sample &
PreservationInitials
Document-
ation

Sample Access:

 Wading ☐ Dock ☐
 From Shore ☒ Bridge ☐

 Sample Ice Preserved in 15
 minutes?
 Yes ☒
 No ☐

BD

km

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	0.70	0.3	26.5	352.1	1.85	6.99	1.57	19.3	0.70	Slack
									V0B	

Comments and Weather:

overcast, baby rain

 high → 0444; low → 1131
 tide @ Ortega r. mouth

WIN ID/Field ID:



20030958

CRAIG CR. 100m DOWN FROM
FOOTBRIDGE IN PARK

WBID Number

2297 B

 Matrix:
 Surface ☐
 Fresh ☐
 Surface Salt ☒

Sample Type:

 E. coli ☐
 Enteric ☒
 Fecal ☐
Initials
Sample &
PreservationInitials
Document-
ation

Sample Access:

 Wading ☐ Dock ☐
 From Shore ☒ Bridge ☐

 Sample Ice Preserved in 15
 minutes?
 Yes ☒
 No ☐

BD

km

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
1125	0.945	0.3	28.0	761.4	4.18	7.09	2.55	33.1	0.945	Slack
									V0B	

Comments and Weather:

overcast, baby rain

WIN ID/Field ID:



20030891

GOODBYS CR ABOVE WEST BRANCH
AT SAN CLERC

WBID Number

2326 A

 Matrix:
 Surface ☐
 Fresh ☒
 Surface Salt ☐

Sample Type:

 E. coli ☒
 Enteric ☐
 Fecal ☐
Initials
Sample &
PreservationInitials
Document-
ation

Sample Access:

 Wading ☐ Dock ☐
 From Shore ☒ Bridge ☐

 Sample Ice Preserved in 15
 minutes?
 Yes ☒
 No ☐

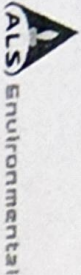
BD

km

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
1150	0.500	0.3	25.4	324.5	0.15	7.36	4.65	56.6	0.50	Ebb
									V0B	

Comments and Weather:

overcast, no wind



SR #	
ALS Contact	

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6/29/2021