

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 'stitch'

RQ: 2020-05-04-39

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 2/10/2020

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. Almbacher	05-21-2020	0755	22.9	760.5	8.6	8.6	100	-	1.039735	P/F	L/F
ICV	↓	5-21-20	0758	23.0	760.5	8.6	8.59	100.1	-	1.039735	P/F	L/F
CCV	K. Appleby	5-21-20	1419	25.1	761.0	8.3	8.41	101.8	-	1.039735	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. Almbacher	05-21-2020	0800	191018	10/2020	1,000	1,000	P/F	L/F
ICV	↓	↓	0805	190711A	07/2020	100	102.8	P/F	L/F
CCV	K. Appleby	5-21-20	1421	191025C	11/2020	50,000	51,005	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.	K. Almbacher	05-21-2020	0810	291189	10/2021	7.00	24.0	7.01	-29.8	P/F	L/F
Calibr.	↓	↓	0813	2910G29	10/2021	4.00	23.9	4.00	154.6	P/F	L/F
Calibr.	↓	↓	0815	4912B23	05/2021	10.00	24.0	9.97	-199.7	P/F	L/F
ICV	↓	↓	0817	2910G29	10/2021	4.0	23.8	3.98	153.6	P/F	L/F
CCV	K. Appleby	↓	1427	2911819	10/2021	7.00	24.1	9.99	-200.8	P/F	L/F
CCV						10.00				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: 2/10/20

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	K. Almbacher	05-21-2020	0820	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: 5-21-2020 RQ#: 2020-05-04-39

 Event Name: BMAP 1

 Meter ID: ProDSS 'Stitch'

 Sampling Team Members: K. Appleby / A. Kalmbacher

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 & Preservation KA		Initials Documentation JK	
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				
1120	1.5	0.3	26.9	13903	8.0	6.81	0.47	6.1	0.8	Ebb				
Comments and Weather:														

WIN Number / Site Name 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 & Preservation AK		Initials Documentation KA	
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	0.44	0.22	27.3	20325	12.10	7.24	5.07	68.3	0.44(5)	Ebb				
Comments and Weather:														

WIN Number / Site Name 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 & Preservation KA		Initials Documentation AK	
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				
1100	0.8	0.3	26.7	18746	11.0	6.92	1.2	16	0.8	Flood				
Comments and Weather: <u>Pt. Cloudy, ~high 80's, humid</u>														

 Signature: A. Kalmbacher

 Date: 5/21/2020

Field Sheet Scanned (Initials/date): _____

Parameters uploaded to LIMs (Initials/date): _____

 Data QC'd in LIMs (Initials/date): BD 6/15/2020

Data Migrated to WIN (Initials/date): _____

WIN Number / Site Name

WIN / Field ID:



20030953

LITTLE FISHWEIR AT OAK ST.

WBID Number

2280A

Matrix:
Surface ☒
Fresh ☒
Surface Salt ☐

Sample Type:

E. coli ☒
Enterococcus ☐
Fecal ☐Initials
Sample &
Preservation

KA

Initials
Document-
ation

AK

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
0950	0.2	0.1	25.2	8875	4.9	7.0	5.1	57.8	0.2	Flood

Comments and Weather:

WIN Number / Site Name

WIN ID/Field ID:



20030793

CRAIG CR @ HENDRICKS AVE

WBID Number

2297B

Matrix:
Surface ☐
Fresh ☐
Surface Salt ☒

Sample Type:

E. coli ☐
Enterococcus ☒
Fecal ☐Initials
Sample &
Preservation

AK

Initials
Document-
ation

KA

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	0.44	0.22	26.9	26789	16.38	6.93	0.90	12.0	0.14/5	Ebb

Comments and Weather:

WIN Number / Site Name

WIN ID/Field ID:



20030958

CRAIG CR. 100m DOWN FROM
FOOTBRIDGE IN PARK

WBID Number

2297B

Matrix:
Surface ☐
Fresh ☐
Surface Salt ☒

Sample Type:

E. coli ☐
Enterococcus ☒
Fecal ☐Initials
Sample &
Preservation

AK

Initials
Document-
ation

KA

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
1255	0.35	0.15	27.1	27360	16.77	7.42	4.385	43.4%	0.35	Ebb

Comments and Weather:

WIN Number / Site Name

WIN ID/Field ID:



20030891

GOODBYS CR ABOVE WEST BRANCH
AT SAN CLERC

WBID Number

2326A

Matrix:
Surface ☒
Fresh ☐
Surface Salt ☐

Sample Type:

E. coli ☒
Enterococcus ☐
Fecal ☐Initials
Sample &
Preservation

AK

Initials
Document-
ation

KA

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
1315	0.3	0.15	25.4	7370	4.05	6.90	2.20	27.5	0.3/5	Ebb

Comments and Weather:

Bmap 1

Central Laboratory Submittal Form

last revised Jan 25, 2018

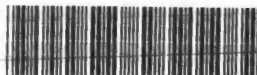
Customer: NE-DIST

Requester: Jeremy M. ParrishField Report Prepared By: A. Kalmbacher

Project ID: BMAP

Collected By: K. ApplebySampling Agency: FDEP/NE ROC

WIN ID/Field ID:



20030793

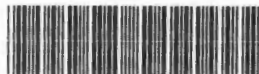
CRAIG CR @ HENDRICKS AVE

Latitude

☐ dd Longitude
☐ dms☐ dd
☐ dms

☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>5-21-2020</u> Time	☒ Eastern ☐ Central	Composite end Date Time	Bottle Group(s) (See pg 2)
Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	A
Temp (C)	pH	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)	
Comments				

WIN ID/Field ID:



20030958

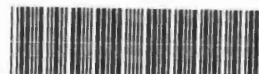
CRAIG CR. 100m DOWN FROM
FOOTBRIDGE IN PARK

Latitude

☐ dd Longitude
☐ dms☐ dd
☐ dms

☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>5-21-2020</u> Time	☒ Eastern ☐ Central	Composite end Date Time	Bottle Group(s)
Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	A
Temp (C)	pH	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)	
Comments				

WIN ID/Field ID:



20030891

GOODBYS CR ABOVE WEST BRANCH
AT SAN CLERC

Latitude

☐ dd Longitude
☐ dms☐ dd
☐ dms

☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>5-21-2020</u> Time	☐ Eastern ☐ Central	Composite end Date Time	Bottle Group(s)
Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	B
Temp (C)	pH	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)	
Comments				

Location

Field ID

WIN/STORET #

Latitude

☐ dd Longitude
☐ dms☐ dd
☐ dms

☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time	☐ Eastern ☐ Central	Composite end Date Time	Bottle Group(s)
Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
Temp (C)	pH	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)	
Comments				

Relinquished By:

Date/Time

Shipping Method

Number of Coolers Shipped:

Received By:

Date/Time

Bmap 1

Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: NE-DIST

Requester: Jeremy M. ParrishField Report Prepared By: A. Kalmbacher

Project ID: BMAP

Collected By: K. ApplebySampling Agency: FDEP/NE ROL

WIN / Field ID:  20030953	☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>5-21-2020</u> Time <u>0950</u>	<u>Eastern</u> Composite end Date _____ Time _____	Bottle Group(s) (See pg 2)
LITTLE FISHWEIR AT OAK ST.	Matrix (type, e.g., <u>Salt</u> , Fresh, etc)	Diss. Oxygen <u>5.1</u>	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)
Temp (C) <u>25.2</u>	pH <u>7.0</u>	Sample Depth <u>0.1</u>	☐ ft ☒ m	Sp. Conductance (umho/cm) <u>8875</u>
Latitude ☐ dd ☐ dms	Salinity (ppt) <u>4.9</u>	Comments		
WIN / Field ID:  20030801	☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>5-21-2020</u> Time <u>1100</u>	<u>Eastern</u> Composite end Date _____ Time _____	Bottle Group(s)
BIG FISHWEIR CR SF @ HAMILTON ST	Matrix (type, e.g., <u>Salt</u> , Fresh, etc)	Diss. Oxygen <u>1.2</u>	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)
Temp (C) <u>26.7</u>	pH <u>6.92</u>	Sample Depth <u>0.3</u>	☐ ft ☒ m	Sp. Conductance (umho/cm) <u>18,746</u>
Latitude ☐ dd ☐ dms	Salinity (ppt) <u>11.0</u>	Comments		
WIN ID/Field ID:  20030760	☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>5-21-2020</u> Time <u>1120</u>	<u>Eastern</u> Composite end Date _____ Time _____	Bottle Group(s)
BUTCHER PEN CR AT WESCONNETT	Matrix (type, e.g., <u>Salt</u> , Fresh, etc)	Diss. Oxygen <u>0.47</u>	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)
Temp (C) <u>26.9</u>	pH <u>6.81</u>	Sample Depth <u>0.3</u>	☐ ft ☒ m	Sp. Conductance (umho/cm) <u>13,903</u>
Latitude ☐ dd ☐ dms	Salinity (ppt) <u>8.0</u>	Comments		
WIN ID/Field ID:  20030082	☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>5-21-2020</u> Time <u>1135</u>	<u>Eastern</u> Composite end Date _____ Time _____	Bottle Group(s)
BUTCHER PEN CR @ CONFEDERATE PT ROAD	Matrix (type, e.g., <u>Salt</u> , Fresh, etc)	Diss. Oxygen <u>5.07</u>	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)
Temp (C) <u>27.3</u>	pH <u>7.24</u>	Sample Depth <u>0.22</u>	☐ ft ☒ m	Sp. Conductance (umho/cm) <u>20,325</u>
Latitude ☐ dd ☐ dms	Salinity (ppt) <u>1210</u>	Comments		

Relinquished By: <u>A. Kalmbacher</u>	Date/Time: <u>5-21-2020</u>	Shipping Method: <u>FedEx</u>	Number of Coolers Shipped: _____	Received By: _____	Date/Time: _____
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No shipping -
Contract Lab

Group: A	Bottle Type: P-250ML-WI-THI 125ML	# of Bottles: 21	Preservative: ICE	Enter Number of Bottles Sent to Lab: 7 → sent to ALS
NE-ALS-ENQ				
Group: B	Bottle Type: P-250ML-WI-THI 125ML	# of Bottles: 10	Preservative: ICE	Enter Number of Bottles Sent to Lab: 10 → sent to ALS
NE-ALS-ECQ				

