

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: 06-22-44 + 06-22-39

Project: BMAP 1/2 - SMP 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 6/18/20

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.	K. Appleby	6/23/20	743	26.2	761.9	8.1	8.11	100.2	-	1.03	P/F	L/F
ICV	↓	↓	744	26.2	761.9	8.1	8.11	100.3	-	1.03	P/F	L/F
CCV	↓	↓	1129	27.1	761.6	8.0	7.96	100.0	-	1.03	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.	K. Appleby	6/23/20	746	200107L	4/2021	1000	1000	P/F	L/F
ICV	↓	↓	750	190711A	7/2020	100	103.4	P/F	L/F
CCV	↓	↓	1130	191025B	11/2020	20,000	19,547	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. Appleby	6/23/20	752	2911819	10/2021	7.00	27.2	7.00	-29.3	P/F	L/F
Calibr.	↓	↓	759	2001353	1/2022	4.00	27.5	4.00	153.6	P/F	L/F
Calibr.	↓	↓	800	2002911	8/2021	10.00	27.7	10.00	198.9	P/F	L/F
ICV	↓	↓	802	2911819	10/2021	7.00	27.3	7.02	-25.6	P/F	L/F
CCV	↓	↓	1131	2002911	8/2021	10.00	27.7	10.03	-203.1	P/F	L/F
CCV	↓	↓	1133	2001353	1/2022	4.00	27.4	4.07	149.3	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: 6/18/20

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. Appleby	6/23/20	805	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: 6/30/2020 RQ#: 2020-06-22-39
 Event Name: BMAP1 Meter ID: 54.12h
 Sampling Team Members: Kim Appleby + J. Parrish
 All bacteria samples taken are surface water grab samples.

WIN Number / Site Name WIN ID/Field ID:  20030760 BUTCHER PEN CR AT WESCONNETT					WBID Number 2322		Matrix: Surface Fresh ☒ Surface Salt ☐		Sample Type: E. coli ☒ Enterococcus ☐ Fecal ☐		Weather Conditions: partly cloudy, 80s	
Comments:					Sample Access: Wading ☐ From Shore ☒ Dock ☐ Bridge ☐		Sample Ice Preserved in 15 minutes? Yes ☒ No ☐		Initials Sample & Preservation JP		Initials Documentation RA	
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		
850	1.3	0.3	25.2	355.7	0.17	6.87	4.74	58.1	1.0	Ebb		
							5.14	60.9				

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 ☐		Weather Conditions: partly cloudy, 80s	
Comments:					Sample Access: Wading ☐ From Shore ☐ Dock ☐ Bridge ☐		Sample Ice Preserved in 15 minutes? Yes ☒ No ☐		Initials Sample & Preservation JP		Initials Documentation RA	
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		
905	0.4	0.2	28.0	122.4	0.61	6.86	2.90	37.2	0.4(s)	Ebb		

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 ☐		Weather Conditions: partly cloudy, 80s	
Comments:					Sample Access: Wading ☐ From Shore ☒ Dock ☐ Bridge ☐		Sample Ice Preserved in 15 minutes? Yes ☒ No ☐		Initials Sample & Preservation JP		Initials Documentation RA	
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		
920	0.3	0.15	25.9	54.4	0.26	7.36	5.48	67.3	0.3(s)	Ebb Flood		

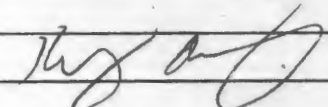
WIN Number / Site Name WIN / Field ID:  20030953 LITTLE FISHWEIR AT OAK ST.					WBID Number 2280A		Matrix: Surface Fresh ☒ Surface Salt ☐		Sample Type: E. coli ☒ Enterococcus ☐ Fecal ☐		Weather Conditions: Sunny, 80s-90s	
Comments:					Sample Access: Wading ☐ From Shore ☒ Dock ☐ Bridge ☐		Sample Ice Preserved in 15 minutes? Yes ☒ No ☐		Initials Sample & Preservation JP		Initials Documentation RA	
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		
930	0.7	0.3	25.4	460.6	0.22	6.89	3.53	43.1	0.7(s)	Ebb		

WIN Number / Site Name WIN ID/Field ID:  20030793 CRAIG CR @ HENDRICKS AVE					WBID Number 2297B Comments:		Matrix: Surface Fresh ☐ Surface Salt ☒		Sample Type: E. coli ☐ Entero ☒ Fecal ☐		Weather Conditions: Partly Cloudy 80s - 90s	
					Sample Access: Wading ☐ From Shore ☒ Dock ☐ Bridge ☐		Sample Ice Preserved in 15 minutes? Yes ☒ No ☐		Initials Sample & Preservation JP		Initials Documentation KA	
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		
1010	0.24	0.12	25.6	471.3	0.23	7.20	4.77	52.3	0.27	Flood Ebb		

WIN Number / Site Name WIN ID/Field ID:  20030891 GOODBYS CR ABOVE WEST BRANCH AT SAN CLERC					WBID Number 2326A Comments:		Matrix: Surface Fresh ☒ Surface Salt ☐		Sample Type: E. coli ☒ Entero ☐ Fecal ☐		Weather Conditions: Partly Cloudy 80s - 90s	
					Sample Access: Wading ☐ From Shore ☒ Dock ☐ Bridge ☐		Sample Ice Preserved in 15 minutes? Yes ☒ No ☐		Initials Sample & Preservation JP		Initials Documentation KA	
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		
1050	0.18	0.18	25.8	360.4	0.17	7.31	4.8	58.9	0.18	Ebb		

WIN Number / Site Name					WBID Number		Matrix: Surface Fresh ☐ Surface Salt ☐		Sample Type: E. coli ☐ Entero ☐ Fecal ☐		Weather Conditions:			
					Comments:		Sample Access: Wading ☐ From Shore ☐ Dock ☐ Bridge ☐		Sample Ice Preserved in 15 minutes? Yes ☐ No ☐		Initials Sample & Preservation 		Initials Documentation 	
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				

WIN Number / Site Name					WBID Number		Matrix: Surface Fresh ☐ Surface Salt ☐		Sample Type: E. coli ☐ Entero ☐ Fecal ☐		Weather Conditions:			
					Comments:		Sample Access: Wading ☐ From Shore ☐ Dock ☐ Bridge ☐		Sample Ice Preserved in 15 minutes? Yes ☐ No ☐		Initials Sample & Preservation 		Initials Documentation 	
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				

 Signature:  Date: 6/23/70

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

 Data QC'd in LIMs (Initials/date): Brian Davis Data Migrated to WIN (Initials/date): _____

Bmap 1

Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: NE-DIST

Requester: Jeremy M. ParrishField Report Prepared By: Kim Appleby

Project ID: BMAP

Collected By: K. Appleby + J. ParrishSampling Agency: FL DEP NE ROL

Location	WIN ID/Field ID:		20030760	☐ Comp ☒ Grab	Collection (comp begin or grab)	Date	Time	☒ Eastern ☐ Central	Composite end	Date	Time	Bottle Group(s)
Field ID	BUTCHER PEN CR AT WESCONNETT			Matrix (type, e.g., Salt, Fresh, etc)	Fresh	Diss. Oxygen	5.14	☒ mg/L ☐ % sat	Total Res. Chlorine	(mg/L) -		B
WIN/ST				Temp (C)	25.2	pH	6.87	Sample Depth	0.3	☐ ft ☒ m	Sp. Conductance (umho/cm)	
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt)	0.17	Comments						
Location	WIN ID/Field ID:		20030082	☐ Comp ☒ Grab	Collection (comp begin or grab)	Date	Time	☒ Eastern ☐ Central	Composite end	Date	Time	Bottle Group(s)
Field ID	BUTCHER PEN CR @ CONFEDERATE PT ROAD			Matrix (type, e.g., Salt, Fresh, etc)	Fresh	Diss. Oxygen	2.90	☒ mg/L ☐ % sat	Total Res. Chlorine	(mg/L) -		B
WIN/ST				Temp (C)	28.0	pH	6.86	Sample Depth	0.2	☐ ft ☒ m	Sp. Conductance (umho/cm)	
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt)	0.61	Comments						
Location	WIN / Field ID:		20030801	☐ Comp ☒ Grab	Collection (comp begin or grab)	Date	Time	☒ Eastern ☐ Central	Composite end	Date	Time	Bottle Group(s)
Field ID	BIG FISHWEIR CR SF @ HAMILTON ST			Matrix (type, e.g., Salt, Fresh, etc)	Fresh	Diss. Oxygen	5.48	☒ mg/L ☐ % sat	Total Res. Chlorine	(mg/L) -		B
WIN/ST				Temp (C)	25.9	pH	7.36	Sample Depth	0.15	☐ ft ☒ m	Sp. Conductance (umho/cm)	
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt)	0.26	Comments						
Location	WIN / Field ID:		20030953	☐ Comp ☒ Grab	Collection (comp begin or grab)	Date	Time	☒ Eastern ☐ Central	Composite end	Date	Time	Bottle Group(s)
Field ID	LITTLE FISHWEIR AT OAK ST.			Matrix (type, e.g., Salt, Fresh, etc)	Fresh	Diss. Oxygen	3.52	☒ mg/L ☐ % sat	Total Res. Chlorine	(mg/L) -		B
WIN/ST				Temp (C)	25.4	pH	6.89	Sample Depth	0.3	☐ ft ☒ m	Sp. Conductance (umho/cm)	
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt)	0.22	Comments						

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Kim Appleby	6/23/20 1100	Fed Ex	1 + 0		

Sent to ALS

Florida Department of Environmental Protection

Central Laboratory Submittal Form

Bmap 1

Customer: NE-DIST

Requester: Jeremy M. ParrishField Report Prepared By: Kim Appleby

Project ID: BMAP

Collected By: K. Appleby + J. ParrishSampling Agency: FDEP NE ROL

Location	WIN ID/Field ID:		20030793	☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>6/23/20</u> Time <u>1010</u>	☒ Eastern ☐ Central	Composite end Date - Time -	Bottle Group(s) (See pg 2)	
Field ID	CRAIG CR @ HENDRICKS AVE			Matrix (type, e.g., Salt, Fresh, etc) <u>Fresh</u>		Diss. Oxygen <u>4.27</u>	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) -	
WIN/STOR				Temp (C) <u>25.6</u>	pH <u>7.20</u>	Sample Depth <u>0.12</u>	☐ ft ☒ m	Sp. Conductance (umho/cm) <u>471.3</u>	
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt) <u>0.23</u>	Comments				
Location	WIN ID/Field ID:		20030891	☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>6/23/20</u> Time <u>1050</u>	☒ Eastern ☐ Central	Composite end Date - Time -	Bottle Group(s)	
Field ID	GOODBYS CR ABOVE WEST BRANCH AT SAN CLERC			Matrix (type, e.g., Salt, Fresh, etc) <u>Fresh</u>		Diss. Oxygen <u>4.8</u>	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) -	
WIN/STOR				Temp (C) <u>25.8</u>	pH <u>7.31</u>	Sample Depth <u>0.09</u>	☐ ft ☒ m	Sp. Conductance (umho/cm) <u>360.1</u>	
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt) <u>0.17</u>	Comments				
Location				☐ Comp ☐ Grab	Collection (comp begin or grab) Date - Time -	☐ Eastern ☐ Central	Composite end Date - Time -	Bottle Group(s)	
Field ID				Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
WIN/STOR #				Temp (C)	pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)	
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt)	Comments				
Location				☐ Comp ☐ Grab	Collection (comp begin or grab) Date - Time -	☐ Eastern ☐ Central	Composite end Date - Time -	Bottle Group(s)	
Field ID				Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
WIN/STOR #				Temp (C)	pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)	
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt)	Comments				

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
<u>Kim Appleby</u>	<u>6/23/20</u>	<u>Fed Ex</u>	<u>1</u>		

Group: A	Bottle Type: P-250ML-WI-THI	# of Bottles: 2	Preservative: ICE	Enter Number of Bottles Sent to Lab	<u>1 → to ALS</u>
NE-ALS-ENQ					

Group: B	Bottle Type: P-250ML-WI-THI	# of Bottles: 5	Preservative: ICE	Enter Number of Bottles Sent to Lab	<u>5 → to ALS</u>
NE-ALS-ECQ					



CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

9143 Philips Highway, Suite 200 Jacksonville, FL 32256 / Ph(904) 739-2277 / FAX (904) 739-2011

SR # _____
ALS Contact: _____

Page 1 of 1

Project Name BMAP 1		Project Number RQ-2020-06-22-39		ANALYSIS REQUESTED (Include Method Number and Container Preservative)																									
Report To Dep-Overflowmicro@dep.state.fl.us		Report CC Jeremy Parrish		NUMBER OF CONTAINERS	E.Coli	Enterococci	Preservative Key																						
Company/Address FDEP DEAR NE-ROC							0. None																						
FDEP DEAR NE-ROC							1. HCL																						
8800 Baymeadows Way W							2. HNO3																						
Jacksonville, FL 32256							3. H2SO4																						
Phone # 904-256-1693		FAX #		4. NaOH																									
Sampler's Signature <i>[Signature]</i>		Sampler's Printed Name Kim Appleby		5. Zn. Acetate																									
CLIENT SAMPLE ID		LAB ID		SAMPLING DATE TIME		Matrix		6. MeOH																					
20030760				6/23/20 850		SW		7. NaHSO4																					
20030082				905		1		8. Other																					
20030801				920		1		REMARKS																					
20030953				930		1		Fresh																					
20030793				1010		1		↓																					
20030891				1050		1		↓																					
Special Instructions/Comments: Email Report to: Dep-Overflowmicro@dep.state.fl.us																		TURNAROUND REQUIREMENTS				REPORT REQUIREMENTS				INVOICE INFORMATION			
0.0⁰⁰																		RUSH (SURCHARGES APPLY)				I. Results Only				P.O. # _____			
																		☒ STANDARD				II. Results + QC Summaries				Bill to: _____			
																						(LCS, DUP, MS/MSD as required)				_____			
																						III. Results + QC and Calibration Summaries				_____			
REQUESTED FAX DATE																		IV. Data Validation Report with Raw Data				_____							
N/A																													
REQUESTED REPORT DATE																		Edata Yes No											
N/A																													
Relinquished By				Received By				Relinquished By				Received By				Relinquished By				Received By									
Signature <i>[Signature]</i>				Signature <i>[Signature]</i>				Signature				Signature				Signature				Signature									
Printed Name Kim Appleby				Printed Name Kim Appleby				Printed Name				Printed Name				Printed Name				Printed Name									
Firm FDEP NE ROC				Firm FDEP NE ROC				Firm				Firm				Firm				Firm									
Date/Time 6/23/20 1100				Date/Time 6/23/20 1100				Date/Time				Date/Time				Date/Time				Date/Time									