

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: ProDSS Stitch RQ: 2021-05-03-31 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 2/15/21

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	5/4/21	0801	21.8	761.8	8.8	—	100.2	—	1.029	P/F	L/F
ICV			0803	21.7	761.7	8.83	8.83	100.4	—	1.029	P/F	L/F
CCV	J Parnish	5/4/21	1225	22.5	761.3	8.70	8.75	101.1	—	—	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	5/4/21	0805	201222B	01/2022	1000	1000	P/F	L/F
ICV			0809	201222A	01/2022	100	103.0	P/F	L/F
CCV	J Parnish	5/4/21	1227	210426 D	5/2022	20000	19940	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. McDonald	5/4/21	0813	2010F27	10/2022	7.01	22.7	7.01	-22.9	P/F	L/F
Calibr.			0815	2010C31	09/22	4.00	22.8	4.00	142.4	P/F	L/F
Calibr.			0817	2012797	05/2022	10.03	22.4	10.03	-200.3	P/F	L/F
ICV			0819	2010C31	09/2022	4.00	22.7	3.86	154.9	P/F	L/F
CCV	J Parnish	5/4/21	1229	2012797	5/2022	10.00	22.1	10.03	798.6	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 _____, 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: 2/15/2021

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	5/4/21	0821	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 CDV?
Yes NoDate: 5/4/2021 RQ#: 2021-05-03-31Event Name: BMAP1Meter ID: ProDSS StitchSampling Team Members: K. McDonald & J. Parrish

All bacteria samples taken are surface water grab samples.

WIN Number / Site Name <u>20030760 Butcher Pen CR AT Wesconnett</u>					WBID Number <u>2322</u>		Matrix: Surface ☒ Fresh ☒ Surface Salt ☐		Sample Type: E. coli ☒ Enterococcus ☐ Fecal ☐		Initials Sample & Preservation <u>JP</u>		Initials Documentation <u>KM</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>1000</u>	<u>0.93</u>	<u>0.3</u>	<u>23.0</u>	<u>336.3</u>	<u>0.16</u>	<u>6.52</u>	<u>2.24</u>	<u>26.1</u>	<u>0.8</u>	<u>Ebb</u>					

Comments and Weather:

high tide 0626; low tide 1328 @ Piney Pt @ NAS Jax

WIN Number / Site Name <u>20030082 Butcher Pen at Confederate</u>					WBID Number <u>2322</u>		Matrix: Surface ☒ Fresh ☒ Surface Salt ☐		Sample Type: E. coli ☒ Enterococcus ☐ Fecal ☐		Initials Sample & Preservation <u>JP</u>		Initials Documentation <u>KM</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>1010</u>	<u>0.437</u>	<u>0.2</u>	<u>25.8</u>	<u>245.8</u>	<u>1.26</u>	<u>6.97</u>	<u>4.55</u>	<u>56.0</u>	<u>0.437</u>	<u>Ebb</u>					

Comments and Weather:

same tide as above

WIN Number / Site Name <u>20030801 Bishshuer CR SF e Hamilton ST</u>					WBID Number <u>2280 A</u>		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					
<u>1030</u>	<u>0.342</u>	<u>0.17</u>	<u>23.9</u>	<u>446.8</u>	<u>0.21</u>	<u>7.32</u>	<u>2.75</u>	<u>32.5</u>	<u>0.342</u>	<u>Ebb</u>					

Comments and Weather:

same tide as aboveSignature: Jeremy ParrishDate: 5/4/21

Field Sheet Scanned (Initials/date):

Parameters uploaded to LIMs (Initials/date):

BD 07/01/21

Data QC'd in LIMs (Initials/date):

Data Migrated to WIN (Initials/date):



Florida DEP North East District ROC BMAP Field sheet

Data Pass CCV?
Yes ☒ No ☐

Date: 5/4/21 RQ#: 2021-05-03-31
 Event Name: BMAP 1 Meter ID: Pro DSS Stitch
 Sampling Team Members: K. McDonald, J. Parrish
 All bacteria samples taken are surface water grab samples.

WIN Number / Site Name <u>20030953 Little Fish Creek AT OAK ST.</u>					WBID Number <u>2280A</u>		Matrix: Surface ☒ Fresh ☒ Surface Salt ☐		Sample Type: E. coli ☒ Enterococcus ☐ Fecal ☐		Initials Sample & Preservation <u>JP</u>		Initials Documentation <u>KM</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>1045</u>	<u>0.66</u>	<u>0.3</u>	<u>29.8</u>	<u>427.5</u>	<u>0.20</u>	<u>6.93</u>	<u>2.66</u>	<u>30.9</u>	<u>0.66</u>	<u>Ebb</u>				
										<u>VOB</u>				

Comments and Weather:

high tide 0626; low tide 1328 @ NAS Jax

WIN Number / Site Name <u>20030793 CRAIG CR @ Hendricks Ave</u>					WBID Number <u>2297B</u>		Matrix: Surface ☐ Fresh ☐ Surface Salt ☒		Sample Type: E. coli ☐ Enterococcus ☒ Fecal ☐		Initials Sample & Preservation <u>JP</u>		Initials Documentation <u>KM</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>1110</u>	<u>0.53</u>	<u>0.3</u>	<u>25.3</u>	<u>474.3</u>	<u>2.51</u>	<u>6.91</u>	<u>0.63</u>	<u>7.8</u>	<u>0.53</u>	<u>Slack</u>				
										<u>VOB</u>				

Comments and Weather: windylots of grass clippings; unable to discern actual tide in crk

WIN Number / Site Name <u>20030958 CRAIG CR 100m Down from Footbridge in Park</u>					WBID Number <u>2297B</u>		Matrix: Surface ☐ Fresh ☐ Surface Salt ☒		Sample Type: E. coli ☐ Enterococcus ☒ Fecal ☐		Initials Sample & Preservation <u>JP</u>		Initials Documentation <u>KM</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>1115</u>	<u>0.735</u>	<u>0.3</u>	<u>26.1</u>	<u>497.6</u>	<u>2.78</u>	<u>6.87</u>	<u>2.08</u>	<u>25.0</u>	<u>0.5</u>	<u>Ebb/Slack</u>				

Comments and Weather:

Freshly mowed lawnSignature: Jeremy ParrishDate: 5/4/21

Field Sheet Scanned (Initials/date):

BD 07/01/21

Parameters uploaded to LIMs (Initials/date):

Data QC'd in LIMs (Initials/date):

Data Migrated to WIN (Initials/date):

WIN Number / Site Name 20030891 Goodby's CR Above West Branch at Sanchez					WBID Number 2326A		Matrix: Surface ☒ Fresh ☒ Surface Salt ☐		Sample Type: E. coli ☒ Enterococcus ☐ Fecal ☐		Initials Sample & Preservation JP		Initials Documentation KM		
					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					
1140	0.376	0.15	23.5	403.3	0.19	7.55	5.57	65.2	0.376	Ebb					
										V08					
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:															

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:															

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

SR #

ALS Contact: Mandy Sullivan

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

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Client Name		Project Number		ANALYSIS REQUESTED (Include Method Number and Container Preservative)																			
FDEP-NE ROC		RQ-2021- 05 - 03 - 31																					
Report To		Report CC																					
Dep-Overflowmicro@dep.state.fl.us																							
Company/Address																							
8800 Baymeadows Way W																							
Jacksonville, FL 32256																							
Phone #		FAX #																					
904-256-1700																							
Sampler's Signature		Sampler's Printed Name																					
Kelly A McDonald		Kelly A McDonald																					
CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	TIME	Matrix	E.Coli	Enterocoi															PRESERVATIVE KEY		
20030760		5/4	1000	SW	X																0. None		
20030082			1010		X																1. HCL		
20030801			1030		X																2. HNO3		
200300953			1045		X																3. H2SO4		
20030793 *			1110			X															4. NaOH		
20030958 *			1115			X															5. Zn. Acetate		
20030891			1140		X																6. MeOH		
																					7. NaHSO4		
																					8. ICE		
																					REMARKS		
																					Fresh		
																					Salt		
																					Salt		
																					Fresh		

Special Instructions/Comments: Email Report to: Dep-Overflowmicro@dep.state.fl.us		TURNAROUND REQUIREMENTS		REPORT REQUIREMENTS		INVOICE INFORMATION	
* Dilute 10x due to high previous results		RUSH (SURCHARGES APPLY)		I. Results Only		P.O. # B10739	
		X STANDARD		II. Results + QC Summaries (LCS, DUP, MS/MSD as required)		Bill to:	
		REQUESTED FAX DATE N/A		III. Results + QC and Calibration Summaries			
		REQUESTED REPORT DATE N/A		IV. Data Validation Report with Raw Data			
Relinquished By Kelly A McDonald		Received By Che Weigand		Edata Yes No			
Signature Kelly A McDonald		Signature Che Weigand					
Printed Name Kelly A McDonald		Printed Name Che Weigand					
Firm FDEP NE ROC		Firm ALS					
Date/Time 5/4/21 1152		Date/Time 5/4/21 1153					