

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: YSI Pro DSS Hatch RQ- 2020-02-10-14 Project: BMAP 2

- 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 2/10/20

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.	<u>AKalmbacher</u>	<u>02-11-2020</u>	<u>0800</u>	<u>22.7</u>	<u>761.0</u>	<u>8.6</u>	<u>8.63</u>	<u>100.1</u>			P / F	L / F
ICV			<u>0804</u>	<u>22.8</u>	<u>761.0</u>	<u>8.6</u>	<u>8.63</u>	<u>100.1</u>			(P) F	(L) F
CCV	<u>AKalmbacher</u>	<u>↓</u>	<u>1238</u>	<u>22.3</u>	<u>760.0</u>	<u>8.7</u>	<u>8.72</u>	<u>100.4</u>			(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.	<u>AKalmbacher</u>	<u>02-11-2020</u>	<u>0808</u>	<u>191018</u>	<u>10/2020</u>	<u>11000</u>	<u>11000</u>	P / F	L / F
ICV			<u>0810</u>	<u>190711A</u>	<u>7/2020</u>	<u>100</u>	<u>102.9</u>	(P) F	(L) F
CCV	<u>AKalmbacher</u>	<u>↓</u>	<u>1240</u>	<u>191018</u>	<u>10/2020</u>	<u>11000</u>	<u>11000</u>	(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.	<u>AKalmbacher</u>	<u>02-11-2020</u>	<u>0813</u>	<u>2102778</u>	<u>01/2021</u>	<u>7.</u>	<u>23.3</u>	<u>7.01</u>	<u>19.8</u>	P / F	L / F
Calibr.			<u>0815</u>	<u>2907D62</u>	<u>07/2021</u>	<u>4.</u>	<u>23.2</u>	<u>4.00</u>	<u>164.5</u>	P / F	L / F
Calibr.			<u>0818</u>	<u>2904E91</u>	<u>10/2020</u>	<u>10.</u>	<u>23.2</u>	<u>10.02</u>	<u>191.2</u>	P / F	L / F
ICV			<u>0820</u>	<u>2902778</u>	<u>01/2021</u>	<u>7</u>	<u>23.3</u>	<u>7.00</u>	<u>18.6</u>	(P) F	(L) F
CCV	<u>AKalmbacher</u>	<u>↓</u>	<u>1243</u>	<u>2907D62</u>	<u>07/2021</u>	<u>4.0</u>	<u>23.8</u>	<u>4.05</u>	<u>155.0</u>	(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: 02-10-2020

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>AKalmbacher</u>	<u>02-11-2020</u>	<u>0825</u>	<u>0.00</u>	<u>0.00</u>	(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 Department of Environmental Protection North East District ROC Field sheet

Check box if
data qualifiedDate: 2/11/20RQ# 2020-02-10-14Event Name RMAP 2Meter # Sr. Tel.

Lab ID #	STORET#	Site Name							Matrix: Water		Comments			
		NW Th. to Open Coast Hodges							Surface Fresh ☒ Surface Salt ☐ Effluent ☐		E. coli			
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	Vel. ft./sec	Tide Ebb/Flood Slack	Turb NTU	Initials Meter	
915	0.34	0.14	19.0	430.9	0.21	6.52	6.45	69%	VOB	/	/	/	BP	
		0.15												

Lab ID #	STORET#	Site Name							Matrix: Water		Comments			
		Terrapin Creek @ Faye Rd							Surface Fresh ☒ Surface Salt ☐ Effluent ☐					
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	Vel. ft./sec	Tide Ebb/Flood Slack	Turb NTU	Initials Meter	
950	0.15	0.05	18.7	349.8	0.17	6.69	7.32	78.5	VOB	/	/	/	BP	

Lab ID #	STORET#	Site Name							Matrix: Water		Comments			
		Trout R @ Dinsmore Boat Ramp							Surface Fresh ☐ Surface Salt ☒ Effluent ☐					
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	Vel. ft./sec	Tide Ebb/Flood Slack	Turb NTU	Initials Meter	
1020	0.95	0.3	15.9	2733	1.43	6.71	6.6	67	0.8				AK	

Lab ID #	STORET#	Site Name							Matrix: Water		Comments			
		Moncrief CR @ 21st ST							Surface Fresh ☒ Surface Salt ☐ Effluent ☐					
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	Vel. ft./sec	Tide Ebb/Flood Slack	Turb NTU	Initials Meter	
1050	0.2	0.1	19.3	468.7	0.23	7.03	3.73	40.5	VOB	/	/	/	BP	

Lab ID #	STORET#	Site Name							Matrix: Water		Comments			
		Trout River @ Old Kings Rd							Surface Fresh ☒ Surface Salt ☐ Effluent ☐					
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	Vel. ft./sec	Tide Ebb/Flood Slack	Turb NTU	Initials Meter	
1030	0.4	0.2	17.3	136	0.06	6.33	7.3	76	0.7				AK	

Lab ID #	STORET#		Site Name						Matrix: Water Surface Fresh ☒ Surface Salt ☐ Effluent ☐		Comments			
	20030728		Moncrief CR @ Moncrief Rd											
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	Vel. ft./ sec	Tide Ebb/ Flood Slack	Turb NTU	Initials Meter	
1105	0.7	0.3	18.5	366	0.17	7.02	50.0	4.6	0.7				AK	
							4.6	50.0						
Relinquished				Date				Time				Shipping		

All data collected and procedures follow DEP SOP: FS1000, FT1100, FT1200, FT1300, FT1400, FT1500, FT1600, FT1700, FS2100, FS2400
 Jeremy Parrish (JP), Amy Kalmbacher (AK), Pat O'Connor (PO), Sharon Piltz (SP), Jann Gruentzel (JG)

LIMs QC: Brian Davis 6/2/20

Florida Department of Environmental Protection

Central Laboratory Submittal Form

Bmap 2

Customer: NE-DIST

Requester: Jeremy M. Parrish

Field Report Prepared By:

Project ID: BMAP

Collected By:

Sampling Agency:

Loc	WIN / Field ID:  20030897	☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>2/11/20</u> Time <u>1050</u>	☒ Eastern ☐ Central	Composite end Date _____ Time _____	Bottle Group(s) (See pg 2)
Fiel	MONCRIEF CR @ 21ST ST	Matrix (type, e.g., Salt, Fresh, etc) <u>Fresh</u>	Diss. Oxygen <u>3.73</u>	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	A
Win		Temp (C) <u>19.3</u>	pH <u>7.03</u>	Sample Depth <u>0.1</u>	Sp. Conductance (umho/cm) <u>468.7</u>	
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt) <u>0.23</u>		
Loc	WIN / Field ID:  20030726	☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>2/11/20</u> Time <u>1105</u>	☒ Eastern ☐ Central	Composite end Date _____ Time _____	Bottle Group(s)
Fiel	MONCRIEF CR AT MONCRIEF ROAD	Matrix (type, e.g., Salt, Fresh, etc) <u>Fresh</u>	Diss. Oxygen <u>4.6</u>	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	A
Win		Temp (C) <u>18.5</u>	pH <u>7.02</u>	Sample Depth <u>0.3</u>	Sp. Conductance (umho/cm) <u>366</u>	
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt) <u>0.17</u>		
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/STORET #		Temp (C)	pH	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)	
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt)		
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/STORET #		Temp (C)	pH	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)	
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt)		

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
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Bmap 2

Central Laboratory Submittal Form

last revised Jan 25, 2018

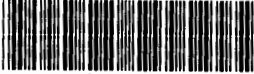
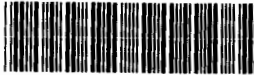
Customer: NE-DIST

Requester: Jeremy M. Parrish

Field Report Prepared By: B Davis

Project ID: BMAP

Collected By: B Davis, A KalmbacherSampling Agency: NEROC

L F V	WIN ID/Field ID:		20030848	NW TRIBUTARY TO OPEN CR AT HODGES	
	Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	
	☐ Comp ☒ Grab Collection (comp begin or grab) Date <u>2/11/20</u> Time <u>915</u> <u>Eastern</u> Central Composite end Date Time				Bottle Group(s) (See pg 2) A
	Matrix (type, e.g., Salt, Fresh, etc) <u>Fresh</u>		Diss. Oxygen <u>6.45</u> ☒ mg/L ☐ % sat Total Res. Chlorine (mg/L)		
Temp (C) <u>19.0</u>		pH <u>6.52</u>		Sample Depth <u>0.15</u> ☐ ft ☒ m Sp. Conductance (umho/cm) <u>430.9</u>	
Comments					
L F V	WIN ID/Field ID:		20030653	TERRAPIN CR @ Faye Rd.	
	Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	
	☐ Comp ☒ Grab Collection (comp begin or grab) Date <u>2/11/20</u> Time <u>950</u> <u>Eastern</u> Central Composite end Date Time				Bottle Group(s) A
	Matrix (type, e.g., Salt, Fresh, etc) <u>Fresh</u>		Diss. Oxygen <u>7.32</u> ☒ mg/L ☐ % sat Total Res. Chlorine (mg/L)		
Temp (C) <u>18.7</u>		pH <u>6.69</u>		Sample Depth <u>0.05</u> ☐ ft ☒ m Sp. Conductance (umho/cm) <u>349.8</u>	
Comments					
L F V	WIN / Field ID:		20030123	TROUT R @ DINSMORE BOAT RAMP DOCK NR US 1	
	Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	
	☐ Comp ☒ Grab Collection (comp begin or grab) Date <u>2/11/20</u> Time <u>1020</u> <u>Eastern</u> Central Composite end Date Time				Bottle Group(s) B
	Matrix (type, e.g., Salt, Fresh, etc) <u>Fresh</u>		Diss. Oxygen <u>6.60</u> ☒ mg/L ☐ % sat Total Res. Chlorine (mg/L)		
Temp (C) <u>15.9</u>		pH <u>6.71</u>		Sample Depth <u>0.3</u> ☐ ft ☒ m Sp. Conductance (umho/cm) <u>2733</u>	
Comments					
L F V	WIN / Field ID:		20030753	TROUT RIVER AT OLD KINGS RD	
	Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	
	☐ Comp ☒ Grab Collection (comp begin or grab) Date <u>2/11/20</u> Time <u>1030</u> <u>Eastern</u> Central Composite end Date Time				Bottle Group(s) A
	Matrix (type, e.g., Salt, Fresh, etc) <u>Fresh</u>		Diss. Oxygen <u>7.30</u> ☒ mg/L ☐ % sat Total Res. Chlorine (mg/L)		
Temp (C) <u>17.3</u>		pH <u>6.33</u>		Sample Depth <u>0.3</u> ☐ ft ☒ m Sp. Conductance (umho/cm) <u>136</u>	
Comments					

Relinquished By: <u>B - P -</u>	Date/Time: <u>2/11/20 1155</u>	Shipping Method: <u>/</u>	Number of Coolers Shipped: <u>0</u>	Received By:	Date/Time:
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Group: A	Bottle Type: P-120ML-WC-THI	# of Bottles: 10	Preservative: ICE	Enter Number of Bottles Sent to Lab	<u>10 to ALS</u>
NE-ALS-ECQ					

Group: B	Bottle Type: P-120ML-WC-THI	# of Bottles: 2	Preservative: ICE	Enter Number of Bottles Sent to Lab	<u>2 to ALS</u>
NE-ALS-ENQ					

