6

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 Sitch RQ- 2020-07-13-52 Project: Biotm Rest.

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 _____

DO DEP SOP FT 1500	Name	Date	Time CT (ET)	Temp °C	Barometer mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	K. McDonald	7/27	0756	23.0	763.3	8.60	8.61	100.4		1.06	(P) / F	(L) F
ICV		↓	0805	23.0	763.4	8.60	8.61	100.5		1.06	(P) / F	(L) F
CCV	Brian Davis	↓	1507	26.8	762.2	8.0	7.96	99.5		1.06	(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 µmhos/cm	Meter Reading umhos/cm	Pass / Fail	Lab / Field
Callbr.	K McDonald	7/27	0808	200407C	04/2021	1000	1000	(P) / F	(L) / F
ICV			0815	191125A	11/2020	1413	1403	(P) / F	(L) F
CCV	Brian Davis	↓	1512	191025A	11/20	1413	1407	(P) F	(L) F
CCV								P / F	L / F

Conductivity Acceptance criteria ± 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	7/27	0819	2001C31	01/2022	7.00	24.8	7.00	-16.4	(P) / F	(L) / F
Calibr.			0823	2001B53	01/2022	4.00	24.9	4.00	165.6	(P) / F	(L) / F
Calibr.			0825	2002911	08/2021	10.00	24.9	10.00	-186.7	(P) / F	(L) / F
ICV			0831	2001B53	01/2022	4.00	25.0	3.95	166.8	(P) / F	(L) / F
CCV	Brian Davis	↓	1514	2002911	8/21	10.0	24.9	9.94	-185.9	(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 ± 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: _____
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	7/27/20	0833	0.00	0.00	(P) F	(L) F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria ± 5 % or ± 0.05m, whichever is greater.

COMMENTS:

Cyanobacteria Bloom Response Field Data Sheet

RQ ~~2019~~ 2020-07-13-52		Collected By:	B.Davis K.mcDonald
Customer	WQAP	Field Report Prepared By:	K.mcDonald
Project ID:	BLOOM_RESP	Sampling Agency:	FDEP

Field ID:

WIN/Fie ID: HAB SADLER PT

Ortega R at Sadler Pt.
WIN=NEHAB0009

Comments: email to Brooks@sadlerpoint.com (owner)

SULFURIC ACID <51% — THERMO FISHER SCIENTIFIC, 620 NORTH MAIN STREET, MIAMI, OK 74354, 1-918-658-2791 — DANGER — 7664-93-9, 7732-18-5 — Contains: 1:1 H2SO4 — May be corrosive to metals. Causes severe skin burns and eye damage. Do not breathe fume/mist/vapours. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Wash contaminated clothing before reuse. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. — Arrange. Store locked up. Store in corrosive resistant container with a resistant inner liner — See Safety Data Sheet (SDS) — Lot No.: SA9301030 — Expires: 10/28/20 — Contains: 1:1 H2SO4

Ortho filter R7EA12511

		Collection Equipment:	Ortho Kit #7
Matrix:	Fresh (Grab)	Coordinates:	30.2754885, -81.7173522
Tide:	☒ Rising ☐ Falling ☐ Slack ☐ N/A	High Tide Time:	1725 Low Tide Time: 1118

Water Quality

Date	Time ☒ EST ☐ CEN	D.O. (mg/L)	D.O. (%)	Temp °C	pH (SU)	Sample Depth (m)	Cond. (umho/cm)	Salinity (PPTh)	Secchi Disk (m)	Total Depth (m)
7/27/2020	1310	7.64	106.9	32.7	7.91	0.3	3427	1.77	0.4	0.6

Bloom Observations

Algal Bloom Observed?	☐ Yes	☒ No		
Water Surface	☒ Clear	☐ Scum	☐ Globs	☐ Slick
Water Clarity	☐ Clear	☒ Slightly Turbid	☐ Turbid	☐ Opaque
Bloom Color	☐ Green	☐ Red	☐ Brown	☒ Other: N/A
Algae Distribution	☐ Suspended in water column		☐ On surface	☒ Other: N/A
Water Odors	☒ Normal	☐ Sewage	☐ Petroleum	☐ Chemical Other:

Parameter Suite	Parameter Methods	Preservation	pH Check	#Bottles Sent to Lab	Bottle Group
Bloom ID (PT-50ML)	☐ BLOOM-ID	☐ Ice		1	A
Chlorophyll (BP-1L)	☐ CHLSUITE-W	☐ Ice		1	B
Toxins (BG-WD250)	☐ W-MCYST-AA	☐ Ice		1	B
Preserved Nutrients (500mL HDPE)	☐ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP	☐ Ice ☐ H2SO4	☐ <2	1	B
	Lot RSA9301030 Exp:	10/28/20	☐ <2		
Filtered Nutrients (P125mL)	☐ W-PO4-F ☐ Field Filtered 0.45um Filter	☐ Ice		1	B
Quantitative Algae	☐ DTY-QN-C / PKD-QN-C	☐ Ice ☐ Lugols		1	C

Relinquished By:	Date/Time	Number of Coolers Shipped	Received By:	Date/Time
Brian Davis	7/27/20 1600	1		

LIMs QC'd: BD 1/25/2021

Request Number: RQ-2020-07-13-52

Algal Bloom Response- NEROC

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: WQAP

Project ID: BLOOM-RESP

Requester: Jeremy M. Parrish

Collected By: B Davis, K McBride

Field Report Prepared By: Brian Davis

Sampling Agency: DEAR NED

Location: Ortega R at Sadler Pt.	☐ Comp ☑ Grab	Collection (comp begin or grab) Date 7/27/20 Time 1310 (Eastern) Central			Composite end Date Time	Bottle Group(s) (See pg 2) A, B, C
Field ID: HAB SADLER PT	Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 7.64 ☑ mg/L ☐ % sat		Total Res. Chlorine (mg/L)	
WIN/STORET #	Temp (C) 32.7	pH 7.91	Sample Depth 0.3 ☐ ft ☑ m		Sp. Conductance (umho/cm) 3427	
Latitude ☐ dd ☐ dms / Longitude ☐ dd ☐ dms	Salinity (ppt) 1.77	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/STORET #	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/STORET #	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/STORET #	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
B D	7/27/20 1600	Fedex	1		

Group: A	Bottle Type: BLOOM-ID	PT-50ML	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
Group: B	Bottle Type: CHLSUITE-W	BP-1L	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
Group: B	Bottle Type: W-MCYST-AA	BG-250ML-WDMTH	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
Group: B	Bottle Type: W-NH3 W-NO2NO3 W-S-A-TP W-TKN	P-500ML	# of Bottles: 6	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	1
Group: B	Bottle Type: W-PO4-F	P-125ML	# of Bottles: 6	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	1
Group: C	Bottle Type: DTY-QN-C PKD-QN-BV	BP-1L	# of Bottles: 6	Preservative:	Lugols	Enter Number of Bottles Sent to Lab	1