

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Boldly "X" this box if there are qualified data this page.

Meter ID: 154179

RQ: 2022-01-17-13

Project: HAB

- 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 11/4/21

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.	L McNally	2/3/22	758	21.0	760	8.9	8.93	100.1			P/F	L/F
ICV	L McNally	2/3/22	815	20.3	760	9.0	9.09	100.6			P/F	L/F
CCV	L McNally	2/3/22	1017	19.6	760	9.2	9.19	100.4			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.	L McNally	2/3/22	801	210330B	4/22	5000	5000	P/F	L/F
ICV	L McNally	2/3/22	803	210525B	6/22	100	101.3	P/F	L/F
CCV	L McNally	2/3/22	1020	210525E	6/22	50000	49652	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.	L McNally	2/3/22	805	202114	5/22	7.	20.9	7.00	-18.2	P/F	L/F
Calibr.	L McNally	2/3/22	807	205283	10/22	4.	20.8	4.00	157.7	P/F	L/F
Calibr.	L McNally	2/3/22	810	201473	5/22	10.	20.7	10.00	-142.2	P/F	L/F
ICV	L McNally	2/3/22	812	205283	10/22	4	20.4	4.02	156.3	P/F	L/F
CCV	L McNally	2/3/22	1023	201473	5/22	10	20.0	10.05	-144.8	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 10 174, slope from 4 to 7 175 (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)

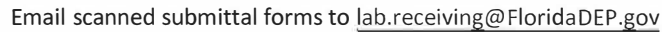
If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification: _____

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: _____; Date of last verification: 11/4/21

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	L McNally	2/3/22	814	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:



RQ - 2022-01-17-13				Collected By:		Michael King, Nathan Mulkey, Lauren McNally				
Customer:		WQAP		Field Report Prepared By:		Nathan Mulkey				
Project ID:		BLOOM-RESP		Sampling Agency:		FDEP				
Location (match Survey123): Anns Bayou (waterbody - site location)					Comments: 6125 1st St units 31-35 Interlaken Ave L12 Hester 205-427-4288					
Field ID: HAB_AnnsBayou02032022					Coordinates:		30.37532 - 87.27333			
WIN ID: NW HAB00011					Collection Equip:		☒ Bottle ☒ Syringe ☐ Pole ☐ Other			
					High Tide Time:		1213 AM			
					Low Tide Time:		0942 AM			
Matrix:		☐ Fresh ☒ Marine		☒ Grab		Tide:		☐ Falling ☒ Slack ☐ N/A		
Water Quality										
Date	Time ☐ EST ☒ CEN	D.O. (%)	D.O. (mg/L)	Temp (°C)	pH (SU)	Sample Depth (m)	Total Depth (m)	Secchi Disk (m)	Sp. Cond. (µmho/cm)	Salinity (ppt)
2/3/2022	916	68.5%	6.05	15.6	7.21	0.3	0.3	0.3	31900	19.93
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)		☒ OV-TOXN-LC				☒ Ice			1	B
		☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP				☒ Ice		☒ H2SO4	☒ <2	1
Preserved Nutrients (500mL HDPE)		Acid Lot: 1105060				Exp: 4/30/22				
Filtered Nutrients (P125mL)		☒ W-PO4-F		☒ Field Filtered 0.45um Filter		☒ Ice			1	B
Quantitative Algae		☐ DTY-QN-C / PKD-QN-C				☐ Ice		Lugols? Y / N		
Relinquished By:		Date/Time		# Coolers Shipped		Received By:		Date/Time		
[Signature]		2/3/22/1600		1						
* AGENCY CODES: DEP South - SD DEP Southeast - SE DEP Central - CE DEP Southwest - SW Cape Coral - CC Collier County - CP Lee County - LC South FL Water Management - SFWMD Southwest FL Water Management - SWFWMD St. Johns Water Management - SJWMD										