

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: Bruce

RQ: 2023-06-19-41

Project: LSR North makes

SMP

Algae Response Palm Coast

- 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 5/23/23

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. Halbert	06/22/23	1100	22.2	759.5	8.7	—	99.9	—	1.021	Ⓟ/F	Ⓟ/F
ICV	K. Halbert	06/22/23	1106	22.2	759.8	8.7	8.71	100.1	—	1.021	Ⓟ/F	Ⓟ/F
CCV	K. Halbert	06/22/23	1603	22.6	758.4	8.6	8.59	99.4	—	1.021	Ⓟ/F	Ⓟ/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. Halbert	06/22/23	1108	230131B	02/2024	1000	1000	Ⓟ/F	Ⓟ/F
ICV	K. Halbert	06/22/23	1110	230131A	02/2024	100	99.9	Ⓟ/F	Ⓟ/F
CCV	K. Halbert	06/22/23	1610	230131D	02/2024	15000	15041	Ⓟ/F	Ⓟ/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. Halbert	06/22/23	1113	M241-15	9/1/24	7.01	22.5	7.01	-18.6	Ⓟ/F	Ⓟ/F
Calibr.	K. Halbert	06/22/23	1117	M221-22	8/16/24	4.00	22.1	4.00	158.3	Ⓟ/F	Ⓟ/F
Calibr.	K. Halbert	06/22/23	1122	M203-05	7/27/24	10.03	22.3	10.03	-187.3	Ⓟ/F	Ⓟ/F
ICV	K. Halbert	06/22/23	1124	M221-22	8/16/24	4.00	22.1	4.02	156.3	Ⓟ/F	Ⓟ/F
CCV	K. Halbert	06/22/23	1614	M203-05	7/27/24	10.03	22.5	10.05	-190.1	Ⓟ/F	Ⓟ/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 10 168.7, slope from 4 to 7 176.9 (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: 5/30/23

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. Halbert	06/22/23	1126	0.000	0.003	Ⓟ/F	Ⓟ/F

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

COMMENTS:



Cyanobacteria Bloom Response Field Data Sheet (2023-06-12 v1)

Email scanned submittal forms to lab.receiving@FloridaDEP.gov

RQ - 2023-05-22-64				Collected By:		Katrin Villinger, Katherine Halbert				
Customer:		NE-DIST		Field Report Prepared By:		Katherine Halbert				
Project ID:		BLOOM_RESP		Sampling Agency:		NEROC				
Location: Palm Coast Stormwater Pond @ 44 Flamingo Drive				Comments: Filamentous Algae sample was taken as Bottle Group E for Algae-ID sample even though it was not part of original RQ order.						
Field ID: NEHAB0103				Coordinates:		29.56296, -81.21507				
WIN Secondary Resource Type: Estuary				Collection Equip:		WaterBottle				
WIN ID: NEHAB0103				High Tide Time:		Low Tide Time:				
Matrix:		Fresh		Grab		Tide:		☐ Rising ☐ 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 (PPTH)
06/22/2023	14:35	26.9	2.14	26.8	6.45	0.24	0.58	0.58	324.1	0.15
Bloom Observations										
Algal Bloom Observed? ☒ Yes ☐ No										
Water Clarity		☒ Clear ☐ Slightly Turbid ☐ Turbid ☐ Opaque								
Bloom Color		☒ Green ☐ Red ☐ Brown ☐ Other:								
Algae Type		☐ Planktonic ☒ Filamentous ☐ Other:								
Algae Accumulation		☒ Mat ☐ Specks ☐ Scum ☐ Glob								
Algae Distribution		☒ Surface-Entire ☐ Surf-Localized ☐ Surf-Windblown ☐ Suspended ☐ Benthic ☐ Epiphytic								
Parameter Suite		Parameter Methods				Preservation		pH Check	#Bottles Sent to Lab	Bottle Group
Algae (PT-50mL)		☒ ALGAL-ID ☒ BLOOM-ID				☒ Ice			1,1	E, A
Chlorophyll (BP-1L)		☒ CHLSUITE-W				☒ Ice			1	C
Toxins (P-125/BG-250)		☒ W-MCYST-AA ☒ W-SAXTN-MS ☐ OV-TOXN				☒ Ice			1	C
Physical/Aggregate		☒ W-COLOR				☒ Ice			1	C
Preserved Nutrients (500mL HDPE)		☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP SA2229010 Acid Lot:				☒ Ice ☒ H2SO4 08/30/2023 Exp:		☒ <2	1	C
Filtered Nutrients (P125mL)		☒ W-PO4-F		☒ Field Filtered 0.45um Filter Filter Lot # 0000175533		☒ Ice			1	C
Quantitative Algae		☐ DTY-QN-C / PKD-QN-C				☐ Ice ☐ Lugols				
Relinquished By:		Date/Time		Number of Coolers Shipped			Received By:		Date/Time	
Katherine Halbert		06/22/2023 16:30		1						