

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

Meter ID: Bruce

RQ: 2021-07-26-26

Project: Algae Bloom Reference Lake

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

- 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 7/8/21

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.	Bruce Davis	8/12/21	739	22.9	764.1	8.6	8.6	100.5	/	1.03	P/F	L/F
ICV			740	22.6	764.1	8.7	8.69	100.6	/	1.03	P/F	L/F
CCV			1559	23.8	764.2	8.5	8.44	100.0	/	1.03	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.	Bruce Davis	8/12/21	736	210426B	5/22	1000	1000	P/F	L/F
ICV			737	210426A	5/22	100	101.1	P/F	L/F
CCV			1601	210426B	5/22	1000	1001	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.	Bruce Davis	8/12/21	746	2104E81	4/23	7.01	23.4	7.01	-30.5	P/F	L/F
Calibr.			750	2103659	3/23	4.00	23.5	4.00	148.0	P/F	L/F
Calibr.			755	2107A04	12/22	10.01	23.5	1.01	-199.8	P/F	L/F
ICV			757	2104E81	4/23	7.01	23.5	7.02	-28.2	P/F	L/F
CCV			1602	2103659	3/23	4.0	23.0	4.11	140.6	P/F	L/F
CCV			1603	2107A04	12/22	10.02	22.9	10.04	-202.4	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 10 169-3, slope from 4 to 7 128.5 (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: 5/17/21

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	Bruce Davis	8/12/21	800	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:

Cyanobacteria Bloom Response Field Data Sheet

RQ-2019- 2021-07-26-26		Collected By:	B. Davis K. McDonald							
Customer	WQMP	Field Report Prepared By:	K. McDonald							
Project ID:	BLOOM_RESP	Sampling Agency:	FDEP NEROC							
Field ID:		Comments:								
WIN ID/Field ID:		Some algae (green) observed, but not enough for bloom								
 NEHAB0028 LSJR @ Beauclerc Cir W		Collection Equipment:	Sample bottle pole							
Matrix:	Fresh	(Grab)	Coordinates:	30.213158, -81.627691						
Tide:	☐ Rising ☒ Falling ☐ Slack ☐ N/A	High Tide Time:	1434	Low Tide Time:						
Water Quality										
Date	Time	D.O. (mg/L)	D.O. (%)	Temp (°C)	pH (SU)	Sample Depth (m)	Cond. (umho/cm)	Salinity (PPT)	Secchi Disk (m)	Total Depth (m)
8/12/2021	1450	99.1	7.27	31.6	7.76	0.3	633	0.30	0.6	0.85
Bloom Observations										
Algal Bloom Observed? ☐ Yes ☒ No										
Water Surface ☒ Clear ☐ Scum ☐ Globbs ☐ Slick Water Clarity ☐ Clear ☒ Slightly Turbid ☐ Turbid ☐ Opaque Algae Color ☒ Green ☐ Red ☐ Brown ☐ Other: _____ Algae Distribution ☐ Suspended in water column ☒ On surface ☐ Other: _____ 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					
Filtered Nutrients (P125mL)	☒ W-PO4-F ☒ Field Filtered 0.45um Filter	☒ Ice	☒ <2	1	B					
Quantitative Algae	☒ DTY-QN-C / PKD-QN-C	☒ Ice ☐ Lugols		1	B					
Relinquished By:	Date/Time	Number of Coolers Shipped	Received By:	Date/Time						
Kelly A McDonald	8/12/2021 1600	1								

LIMs QC'd: BD 08/17/2021