

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: 2021-09-27-51 Project: Algae Research

- 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 8/16/21

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.	J. Lee	10/6/21	0816	21.2	762.8	8.9	8.9	100.4	-	1.037	P/F	L/F
ICV			0817	21.2	762.8	8.9	8.90	100.2	-	1.037	P/F	L/F
CCV			1513	21.4	762.3	8.9	8.92	100.9	-	1.037	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.	J. Lee	10/6/21	0812	2104268	5/22	1000	1000	P/F	L/F
ICV			0814	210426A	5/22	100	100.6	P/F	L/F
CCV			1517	210426D	5/22	20000	20,087	P/F	L/F
CCV			1525	210917C	9/22	50,000	50,050	P/F	L/F

Conductivity Acceptance criteria $\pm 5\%$

49645

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.	J. Lee	10/6/21	0819	2107F5V	7/23	7.01	22.2	7.01	-444	P/F	L/F
Calibr.			0822	2107G40	7/23	4.00	22.4	4.00	135.2	P/F	L/F
Calibr.			0825	2107A04	8/13/22	10.03	22.2	10.03	-209.2	P/F	L/F
ICV			0827	2107F5V	7/23	7.01	22.3	7.01	-37.4	P/F	L/F
CCV			1526	2107A04	12/22	10.04	21.0	10.00	-209.4	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 10 164.8, slope from 4 to 7 179.6 (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: 8/18/21

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	J. Lee	10/6/21	0829	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-2021- 09-27-51		Collected By: Kim Appleby + Jessica Lee								
Customer: ZIFLA		Field Report Prepared By: Kim Appleby								
Project ID: BLOOM_RESP		Sampling Agency: FDEP								
WIN ID/Field ID:  NEHAB0056		Comments: Turbidity in water column. No algae seen.								
LSJR north of blount Island		Collection Equipment: ortho kit #3								
Matrix: Marine	Grab	Coordinates: 30.416960, -81.538180								
Tide: ☐ Rising ☒ Falling ☐ Slack ☐ N/A	High Tide Time: 0933	Low Tide Time: 1552								
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)
10/6/21	1230	5.76	83.7	28.2	7.76	0.3	35952	22.61	0.9 (5)	0.9
Bloom Observations										
Algal Bloom Observed? ☒ Yes ☒ No										
Water Surface		☒ Clear	☐ Scum	☐ Glob	☐ Slick					
Water Clarity		☐ Clear	☒ Slightly Turbid	☐ Turbid	☐ Opaque					
Bloom 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			
	Lot	SA1105060		Exp:	4/30/22		☐ <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					
Relinquished By:	Date/Time		Number of Coolers Shipped		Received By:		Date/Time			
Kim Appleby	10/6/21 1600		1							

LIMs QC: BD 10/21/2021

Cyanobacteria Bloom Response Field Data Sheet

RQ-2021-09-27-51		Collected By: Kim Appleby + Jessica	
Customer: ZIFLA		Field Report Prepared By: Kim Appleby	
Project ID: BLOOM_RESP		Sampling Agency: FDEP	

WIN ID/Field ID:  NEHAB0053 Dunn Creek @ Crystal Lynn Ct		Comments: Algae seen in water around dock + bulkhead. Some pea size clumps seen on surface + in water column. Slight scum layer / seen on + shell seen on surface.	
Matrix: Marine		Collection Equipment: ortho kit #B	
Tide: ☐ Rising ☒ Falling ☐ Slack ☐ N/A		Coordinates: 30.430970, -81.584600	
High Tide Time: 0933		Low Tide Time: 1552	

Water Quality										
Date	Time ☒ EST ☐ CEN	D.O. (mg/L)	D.O. (%)	Temp °C	pH (SU)	Sample Depth (m)	Cond. (umho/cm)	Salinity (PPT)	Secchi Disk (m)	Total Depth (m)
10/6/21	1:45	5.29	71.7	28.0	7.50	0.3	18405	10.87	0.85	0.865

Bloom Observations					
Algal Bloom Observed? ☒ Yes ☐ No					
Water Surface	☐ Clear	☒ Scum	☐ Globbs	☐ Slick	
Water Clarity	☐ Clear	☒ Slightly Turbid	☒ Turbid	☐ Opaque	
Bloom 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
	Lot: SA1105060	Exp: 4/30/22	☐ <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			

Relinquished By: Kim Appleby	Date/Time: 10/6/21 1600	Number of Coolers Shipped: 1	Received By:	Date/Time:
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LIMs QC: BD 10/21/2021