

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:

Stitch

RQ:

2021-09-27-51

Project:

Algae Response

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.	Brian V.	10/7/21	822	22.0	763.8	8.8	8.8	100.5	✓	1.03	(P) F	(L) F
ICV			823	21.9	763.9	8.8	8.8	100.4	✓	1.03	(P) F	(L) F
CCV	Jeremy P.	10/7/21	1230	22.6	764	8.7	8.66	100.2	✓	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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	Brian V.	10/7/21	802	210426B	5/22	1000	1000	(P) F	(L) F
ICV			804	210426A	5/22	1413	1416	(P) F	(L) F
CCV	Jeremy P.	10/7/21	1231	210426A	5/22	100	102	(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.	Brian Davis	10/7/21	810	2107F56	7/23	7.01	22.1	7.01	-28.8	(P) F	(L) F
Calibr.			813	2107G40	7/23	4.00	22.2	4.00	149.8	(P) F	(L) F
Calibr.			816	2107A04	12/22	10.03	22.0	10.04	-202.4	(P) F	(L) F
ICV			819	2107F56	7/23	7.01	22.0	7.04	-28.7	(P) F	(L) F
CCV	Jeremy P.	10/7/21	1233	2107A04	12/22	10.00	20.7	10.10	-207.1	(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 10 173.6, slope from 4 to 7 178.6 (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	Brian Davis	10/7/21	826	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:	J Parnish B Davis							
Customer	21FLA	Field Report Prepared By:	J Parnish							
Project ID:	BLOOM_RESP	Sampling Agency:	FDEP							
WIN ID/Field ID:		Comments:								
 NEHAB0058 Doctor's Lake @ White Owl Rd		Collection Equipment: Ble, Bottle Coordinates: 30.1151, -81.74686								
Matrix:	Fresh	(Grab)	High Tide Time: 1201 Low Tide Time: 540							
Tide:	☒ Rising ☐ Falling ☐ Slack ☐ N/A									
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)
10/7/21	950	4.33	54.5	26.8	7.56	0.3	1128	0.56	NOB	0.6
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	SA11 05060	Exp:	9/20/22	☐ <2					
Filtered Nutrients (P125mL)	☒ W-PO4-F		☒ Field Filtered 0.45um Filter		☐ Ice	1	B			
	RICB73980									
Quantitative Algae	☐ DTY-QN-C / PKD-QN-C		☐ Ice ☐ Lugols							
Relinquished By:	Date/Time	Number of Coolers Shipped		Received By:	Date/Time					
glaum	10/7/21 1600	2								

LIMs QC: BD 10/21/2021

Cyanobacteria Bloom Response Field Data Sheet

RQ-2021-09-27-51	Collected By: J. Plamsh Bravis
Customer: ZIFLA	Field Report Prepared By: J. Plamsh
Project ID: BLOOM_RESP	Sampling Agency: FDEP

WIN ID/Field ID:  NEHAB0057

Doctor's Lake @ Mill Cove

Comments:

Matrix: Fresh	Collection Equipment: Pole, Bottle
Grab	Coordinates: 30.12326, -81.72753
Tide: ☒ Rising ☐ Falling ☐ Slack ☐ N/A	High Tide Time: 1201 Low Tide Time: 540

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)
10/7/21	1010	6.10	77.7	27.6	7.69	0.3	1112	0.55	0.8 VOB	0.8

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: _____		
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: J. Plam	Date/Time: 10/7/21 1600	Number of Coolers Shipped: 2	Received By:	Date/Time:
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Cyanobacteria Bloom Response Field Data Sheet

RQ-2021- 09-27-S1		Collected By: J. P. Davis								
Customer: ZIFLA	Field Report Prepared By: J. P. Davis									
Project ID: BLOOM_RESP	Sampling Agency: FDEP									
Field ID:		Comments:								
WIN ID/Field ID:  NEHAB0055										
Pace Island Dock		Collection Equipment: Pole Bottle								
Matrix: SW Fresh	Grab	Coordinates: 30.13626, -81.7206								
Tide: ☒ Rising ☐ Falling ☐ Slack ☐ N/A	High Tide Time: 1201	Low Tide Time: 540								
Water Quality										
Date	Time	D.O. (mg/L)	D.O. (%)	Temp °C	pH (SU)	Sample Depth (m)	Cond. (umho/cm)	Salinity (PPTH)	Secchi Disk (m)	Total Depth (m)
10/7/21	1045	4.67	58.7	27.2	7.27	0.3	1128	0.56	0.8	1.0
Bloom Observations										
Algal Bloom Observed? ☒ Yes ☐ No										
Water Surface	☐ Clear	☐ Scum	☐ Globs	☒ Slick diffuse						
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			
	RIC673980									
Quantitative Algae	☐ DTY-QN-C / PKD-QN-C		☐ Ice		☐ Lugols					
Relinquished By:	Date/Time	Number of Coolers Shipped			Received By:	Date/Time				
J. P. Davis	10/7/21	2								
	1600									

Cyanobacteria Bloom Response Field Data Sheet

RQ-2021- 09-27-51		Collected By: J Plamsh / B Davis								
Customer: ZIFLA		Field Report Prepared By: J Plamsh								
Project ID: BLOOM_RESP		Sampling Agency: FDEP								
WIN ID/Field ID:  NEHAB0030		Comments: Sampled end of block								
LSJR @ N Ridge Dr		Collection Equipment: Pole, Bottle								
Matrix: SW Fresh (Grab)		Coordinates: 30.09179 -81.69259								
Tide: ☒ Rising ☐ Falling ☐ Slack ☐ N/A		High Tide Time: 1201 Low Tide Time: 540								
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)
10/7/24	1120	5.75	74.2	28.3	7.45	0.3	816	0.40	0.6	1.5
Bloom Observations										
Algal Bloom Observed? ☒ Yes ☐ No										
Water Surface ☒ Clear ☐ Scum ☐ Globs ☒ Slick Very diffuse										
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: J Plamsh		Date/Time: 10/7/24 1600		Number of Coolers Shipped: 2			Received By:		Date/Time:	