

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: 2021-08-23-27

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 Davis	8/18/21	843	23.4	764.6	8.6	/	100.6	/	1.04	(P) F	(L) F
ICV	↓	↓	844	23.4	764.6	8.6	8.57	100.7	/	1.04	(P) F	(L) F
CCV	Kim Appleby	↓	1720	25.1	763.7	8.3	8.34	101.1	/	1.04	(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.	Brian Davis	8/18/21	848	2104268	5/22	1000	1000	(P) F	(L) F
ICV	↓	↓	853	2104268	5/22	50,000	49516	(P) F	(L) F
CCV	Kim Appleby	↓	1722	2104268	5/22	100	102.1	(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	8/18/21	902	2012E39	12/22	7.01	22.3	7.01	-27.5	(P) F	(L) F
Calibr.	↓	↓	905	2103659	3/23	4.00	22.6	4.00	145.3	(P) F	(L) F
Calibr.	↓	↓	909	2103F53	9/22	10.03	22.4	10.03	-198.5	(P) F	(L) F
ICV	↓	↓	911	2012E39	12/22	7.01	22.4	7.07	-29.8	(P) F	(L) F
CCV	Kim Appleby	↓	1726	2107A04	12/22	10.00	22.5	10.10	-20.2	(P) F	(L) F
CCV	↓	↓	1728	2103659	3/23	4.00	22.6	4.10	140.2	(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 10 171, slope from 4 to 7 172.8 (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	8/18/21	913	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

2021 - 08-23-27 RQ-2019		Collected By:	Kim Appleby + Brian Davis							
Customer	Z1 FLA	Field Report Prepared By:	Kim Appleby							
Project ID:	BLOOM_RESP	Sampling Agency:	FDEP							
Field ID:		Comments:								
WIN ID/Field ID:		Algae diffuse in water column. Bubbles on surface.								
 NEHAB0025 LSJR end of Oakvale Rd		Collection Equipment: ortho kit #7								
Matrix:	Fresh	Grab	Coordinates: 30.1097, -81.6421							
Tide:	☒ Rising ☐ Falling ☐ Slack ☐ N/A	High Tide Time:	Low Tide Time:							
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)
8/18/21	1430	6.70	93.6	33.2	7.34	0.2	724	0.35	0.43 (5)	0.43
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: Anaerobic			
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 5A1105060		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	8/18/21	1								

Cyanobacteria Bloom Response Field Data Sheet

RQ-2021-08-23-27	Collected By: Kim Appleby + Brian Davis
Customer: 21FLA	Field Report Prepared By: Kim Appleby + Brian Davis
Project ID: BLOOM_RESP	Sampling Agency: FDEP

WIN ID/Field ID:



NEHAB0024

Christopher Creek below San Jose Blvd

Comments:

Pictures not taken. Sparse algae throughout water column

Matrix: Fresh	Collection Equipment: Ortho Kit #7
Tide: ☒ Rising ☐ Falling ☐ Slack ☐ N/A	Coordinates: 30.2529, -81.6417
High Tide Time:	Low Tide Time:

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)
8/18/21	1315	3.62	47.7	29.4 29.6	6.86	0.23	398.2	0.19	0.53 (s)	0.53 0.22A

Bloom Observations

Algal Bloom Observed?	☒ Yes	☐ No
Water Surface	☒ Clear	☐ Scum
Water Clarity	☐ Clear	☒ Slightly Turbid
Bloom Color	☒ Green	☐ Red
Algae Distribution	☒ Suspended in water column	☐ On surface
Water Odors	☒ Normal	☐ Sewage

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	✓	B
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: 8/18/21 1600	Number of Coolers Shipped: 1	Received By:	Date/Time:	

LIMs QC: BD 10/21/2021

