

CALIBRATION AND VERIFICATION LOG (DEP 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- **2022-04-11-48**

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 **5/2/22**

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.	Katrin Villinger	5/12/22	800	21.5	761.0	8.8	-	100.1	-	1.029	P/F	O/F
ICV	1	1	802	21.5	761.2	8.8	8.84	100.0	-	1.029	P/F	O/F
CCV	Bruce Davis	1	1554	22.2	757.8	8.7	8.73	100.2	✓	1.029	P/F	O/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. Villinger	5/12/22	804	220215A	3/23	1000	1000	P/F	O/F
ICV	1	1	806	210917A	9/22	100	100.2	P/F	O/F
CCV	B. Davis	5/12/22	1556	220225A	3/23	1000	999	P/F	O/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. Villinger	5/12/22	827	4203B87	2/24	7.01	22.0	7.01	-15.6	P/F	O/F
Calibr.	1	1	832	2201088	1/24	4.00	22.1	4.00	163.7	P/F	O/F
Calibr.	1	1	835	2202A63	7/23	10.03	22.1	10.03	-155.9	P/F	O/F
ICV	1	1	839	2201088	1/24	4.00	22.1	4.00	162.7	P/F	O/F
CCV	B. Davis	1	1557	2202A63	7/23	10.03	22.0	10.09	-190.6	P/F	O/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 **170.3**, slope from 4 to 7 **179.3** (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: **5/3/22**

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. Villinger	5/12/22	842	0.000	0.000	P/F	O/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 (2022-04-15 v1)

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

RQ - RQ-2022-04-11-48				Collected By:		Kim Appleby, Brian Davis, Katrin Villinger					
Customer:		WQAP		Field Report Prepared By:		Kim Appleby					
Project ID:		BLOOM_RESP		Sampling Agency:		NEROC					
Location: Newnan's Lake - near Windsor Park				Comments: Weather: sunny. Algae seen evenly disbursed in water column.							
Field ID: NEHAB0064				Coordinates:		29.63664, -82.20224					
WIN Secondary Resource Type: Lake				Collection Equip:		WaterBottle					
WIN ID: NEHAB0064				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 (PPT)	
05/12/2022	11:20	90.2	7.32	26	6.9	0.3	0.492	0.492	68.7	0.03	
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 ID (PT-50mL)		☐ ALGAE-ID				☐ Ice					
Bloom ID (PT-50mL)		☒ BLOOM-ID				☒ Ice			1	A	
Chlorophyll (BP-1L)		☒ CHLSUITE-W				☒ Ice			1	B	
Toxins (BG-WD250)		☒ W-MCYST-AA / W-SAXTN-MS				☒ Ice			1	B	
Preserved Nutrients (500mL HDPE)		☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP				☒ Ice ☒ H2SO4		☒ <2	1	B	
		SA1308030		Exp:		12/01/22					
Filtered Nutrients (P125mL)		☒ W-PO4-F		☒ Field Filtered 0.45um Filter		☒ Ice			1	B	
				Filter Lot # R1EB01329							
Quantitative Algae		☐ DTY-QN-C / PKD-QN-C				☐ Ice ☐ Lugols					
Relinquished By:		Date/Time		Number of Coolers Shipped				Received By:		Date/Time	
Kim Appleby		05/12/2022 16:00		1							



Cyanobacteria Bloom Response Field Data Sheet (2022-04-15 v1)

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

RQ - 2022-04-11-48		Collected By:		Kim Appleby, Brian Davis, Katrin Villinger						
Customer:	WQAP	Field Report Prepared By:		Kim Appleby						
Project ID:	BLOOM_RESP	Sampling Agency:		NEROC						
Location: Lake Winnott - 147 Bakers Acres Dr.			Comments: Weather: partly cloudy. No algae seen.							
Field ID: NEHAB0014			Coordinates: 29.65112, -82.04719							
WIN Secondary Resource Type: Lake			Collection Equip: WaterBottle							
WIN ID: NEHAB0014			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 (PPT)
05/12/2022	13:45	92.2	7.53	25.7	6.33	0.3	2.306	1.4	52.5	0.02
	13:54	87.2	7.16	25.4	6.29	1.8			52.6	0.02
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 ID (PT-50mL)	☐ ALGAE-ID					☐ Ice				
Bloom ID (PT-50mL)	☒ BLOOM-ID					☒ Ice			1	A
Chlorophyll (BP-1L)	☒ CHLSUITE-W					☒ Ice			1	B
Toxins (BG-WD250)	☒ W-MCYST-AA / W-SAXTN-MS					☒ Ice			1	B
Preserved Nutrients (500mL HDPE)	☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP					☒ Ice	☒ H2SO4	☒ <2	1	B
	Acid Lot:		SA1308030		Exp:	12/01/22				
Filtered Nutrients (P125mL)	☒ W-PO4-F		☒ Field Filtered 0.45um Filter			☒ Ice			1	B
			Filter Lot # R1EB01329							
Quantitative Algae	☐ DTY-QN-C / PKD-QN-C					☐ Ice	☐ Lugols			
Relinquished By:	Date/Time		Number of Coolers Shipped			Received By:		Date/Time		
Kim Appleby	05/12/2022 16:00		1							



Cyanobacteria Bloom Response Field Data Sheet (2022-04-15 v1)

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

RQ - 2022-04-11-48		Collected By:		Kim Appleby, Brian Davis, Katrin Villinger						
Customer:	WQAP	Field Report Prepared By:		Kim Appleby						
Project ID:	BLOOM_RESP	Sampling Agency:		NEROC						
Location: Santa Fe Lake-Melrose Bay			Comments: Weather: sunny							
Field ID: NEHAB0069			Coordinates: 29.71617, -82.05169							
WIN Secondary Resource Type: Lake			Collection Equip: Water Bottle							
WIN ID: NEHAB0069			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 (PPT)
05/12/2022	13:00	95.4	7.77	25.8	6.37	0.3	4.9	1.7	73.2	0.03
	13:04	94	7.69	25.6	6.38	2			73.2	0.03
	13:08	3.3	0.03	19.4	5.75	4.4			77.8	0.04
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 ID (PT-50mL)	☐ ALGAE-ID					☐ Ice				
Bloom ID (PT-50mL)	☒ BLOOM-ID					☒ Ice			1	A
Chlorophyll (BP-1L)	☒ CHLSUITE-W					☒ Ice			1	B
Toxins (BG-WD250)	☒ W-MCYST-AA / W-SAXTN-MS					☒ Ice			1	B
Preserved Nutrients (500mL HDPE)	☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP					☒ Ice	☒ H2SO4	☒ <2	1	B
	Acid Lot:		SA1308030			Exp:		12/01/22		
Filtered Nutrients (P125mL)	☒ W-PO4-F		☒ Field Filtered 0.45µm Filter			☒ Ice			1	B
	Filter Lot #		R1EB01329							
Quantitative Algae	☐ DTY-QN-C / PKD-QN-C					☐ Ice	☐ Lugols			
Relinquished By:	Date/Time		Number of Coolers Shipped			Received By:		Date/Time		
Kim Appleby	05/12/2022 16:00		1							