

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: 153464

RQ: 2022-05-02-21

Project: 22 LL2205

- 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 4/22

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.	Jon Woods	5/18/22	750	22.9	757.1	8.6	8.58	99.7	—	1.05	P/F	L/F
ICV	"	"	802	23.5	757.1	8.5	8.48	99.7	—	—	P/F	L/F
CCV	"	"	1606	27.1	755.7	8.0	8.02	100.8	—	—	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.	Jon Woods	5/18/22	751	2106175	8/2022	1000	1000	P/F	L/F
ICV	"	"	801	2107F26	7/2023	100	97.7	P/F	L/F
CCV	"	"	1607	2109K47	9/2023	100	100.0	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.	Jon Woods	5/18/22	753	201209F	6/2022	7.10	23.0	7.01	-26.1	P/F	L/F
Calibr.	"	"	755	210513B	11/2022	4.00	23.1	4.00	144.5	P/F	L/F
Calibr.	"	"	756	201209C	6/2022	10.09	23.6	10.02	-194.8	P/F	L/F
ICV	"	"	800	"	"	10.02	23.4	10.00	-194.5	P/F	L/F
CCV	"	"	1609	210513B	11/2022	4.00	23.6	4.07	144.7	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 10 166.4, slope from 4 to 7 174.6 (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: 4/22

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	Jon Woods	5/18/20	759	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:

~~Need SATO Stations~~ Created needs scanning

Customer: WQAP

Requester: Michael Eckles

Field Report Prepared By:

Project ID: BLOOM-RESP

Collected By: Woods/Blaiss

Sampling Agency:

Location	WIN ID / Field ID → KIT: Algal Bloom		Barcode TLHRHAB0012		Comp		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID	84164				☒ Grab		Date 5/14/22		Time 840		(See pg 2)	
WIN/ST	Location		lake manson inlet		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		Total Res. Chlorine			
Latitude					Temp (C)		pH		Sample Depth			
					Salinity (ppt)		Comments					
					☐ dd ☐ dms							
Location	WIN ID / Field ID →		Barcode TLHRHAB0013		☒ Grab		Date 5/16/22		Time 853		Bottle Group(s)	
Field ID	KIT: Algal Bloom				Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		Total Res. Chlorine			
WIN/STC	Location		Lake. Munro North lake		Temp (C)		pH		Sample Depth			
Latitude					Salinity (ppt)		Comments					
					☐ dd ☐ dms							
Location	WIN ID / Field ID →				☐ Comp ☐ Grab		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID					Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		Total Res. Chlorine			
WIN/STORET #					Temp (C)		pH		Sample Depth			
Latitude					Salinity (ppt)		Comments					
					☐ dd ☐ dms							
Location	WIN ID / Field ID →				☐ Comp ☐ Grab		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID					Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		Total Res. Chlorine			
WIN/STORET #					Temp (C)		pH		Sample Depth			
Latitude					Salinity (ppt)		Comments					
					☐ dd ☐ dms							
Location	WIN ID / Field ID →				☐ Comp ☐ Grab		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID					Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		Total Res. Chlorine			
WIN/STORET #					Temp (C)		pH		Sample Depth			
Latitude					Salinity (ppt)		Comments					
					☐ dd ☐ dms							

Relinquished By: SW	Date/Time 5/18/22 9:31	Shipping Method HD	Number of Coolers Shipped: 1	Received By: ATB	Date/Time 5/18/22 9:31
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Cyanobacteria Bloom Response Field Data Sheet (2019-12-16 v4)

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

RQ - 2022 ²⁰²¹ - 10-04-07	Collected By: Wood's/Blair
Customer: Eckles	Field Report Prepared By: Wood's
Project ID: Bloom Response	Sampling Agency: TLHR
Location:	Comments:

WIN ID / Field ID →



KIT: Algal Bloom

TLHRHAB0013

Location

Lake Munson North Lobe

Coordinates: 30.37337 84.30710

Collection Equip: Sample container

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)
5/18/22	853	86.8	6.79	28.0	7.52	0.3	1.0	0.5	75.4	0.03

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: ☐ N/A
 Algae Distribution ☐ Suspended in water column ☒ On surface ☐ Other: ☐ N/A
 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 0.45µm Filter	☒ Ice		1	B
Quantitative Algae	☒ DTY-QN-C / PKD-QN-C	☒ Ice	Lugols? ☒ Y ☐ N	1	B
Relinquished By:	Date/Time	Number of Coolers Shipped	Received By:	Date/Time	
JW	5/18/22	1			



Cyanobacteria Bloom Response Field Data Sheet (2019-12-16 v4)

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

RQ - ²⁰²¹ 2022 10-04-67		Collected By:	Woods/Blair								
Customer:	Eckles	Field Report Prepared By:	Don Woods								
Project ID:	Bloom Response	Sampling Agency:	21 FLTCR								
Location:		Comments:									
WIN ID / Field ID → 		Coordinates: 30.37303° 84.31351°									
KIT: Algal Bloom		Collection Equip: Sample bottle									
Location: Lake Manassas inlet		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)	
5/18/22	840	17.1	1.38	26.2	6.81	0.3	0.8	0.7	140.5	0.07	
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: _____					☐ N/A		
Algae Distribution	☐ Suspended in water column		☒ On surface		☐ Other: _____					☐ N/A	
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				
	Acid Lot: 1286110		Exp: 12/1/22								
Filtered Nutrients (P125mL)	☒ W-PO4-F		☒ Field Filtered 0.45µm Filter		☒ Ice	1	B				
Quantitative Algae	☒ DTY-QN-C / PKD-QN-C		☒ Ice		Lugols? ☒ Y ☐ N	1	B				
Relinquished By:	Date/Time	Number of Coolers Shipped		Received By:		Date/Time					
JW	5/18/22	1									