



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

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

Station ✓
DMT ✓
WIN ✓

RQ - 2020-01-20-32		Collected By:	Blair, Harden	
Customer:		Field Report Prepared By:	Harden Blair	
Project ID: Algal Bloom Response		Sampling Agency:	6034	
Location: Western Shore Lake Bradford		Comments:	30.4050 -84.3430 WIN: A ^W HAB-100920-0005	
Field ID: HAB-TLH-005 CG		Coordinates:	30°24'N, 84°21'W	
WIN ID: HAB-TLH-005 A		Collection Equip:	Sample Bottle	
Matrix: Fresh		High Tide Time:	Low Tide Time:	
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)
10/09/20	1145	127.2	10.22	26.6	4.03	0.3 0.05	2.5	0.2	26.3	0-01
10/09/20	1148	40.3	3.43	23.2	3.67	2.0	2.5	0.2	28.3	0-01

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	A
Toxins (BG-WD250)	☒ W-MCYST-AA	☒ Ice		1	A
Preserved Nutrients (500mL HDPE)	☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP	☒ Ice ☒ H2SO4	☒	1	A
Acid Lot:	SA003410		Exp:	02/07/21	
Filtered Nutrients (P125mL)	☒ W-PO4-F	☒ Field Filtered 0.45µm Filter	☒ Ice	1	A
Quantitative Algae	☒ DTY-QN-C / PKD-QN-C		☒ Ice	Lugols? ☒ N	1 B
Relinquished By:	Date/Time	Number of Coolers Shipped	Received By:	Date/Time	
Blair/Harden	10/09/20	1			

Sampling Agency:

Customer Name	Order #	Order Date	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Blair/Harden	100920	1215	Hand Delivered	1		10/9/2022 1220

Group: A	Bottle Type: BLOOM-ID	PT-50ML	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
Group: B	Bottle Type: W-MCYSCT-AA	BG-250ML-WDMT H	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
Group: C	Bottle Type: CHLSUITE-W	BP-1L	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
Group: C	Bottle Type: W-NH3 W-NO2NO3 W-S-A-TP W-TKN	P-500ML	# of Bottles: 4	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab _____
Group: C	Bottle Type: W-PO4-F	P-125ML	# of Bottles: 4	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab _____
Group: D	Bottle Type: DTY-QN-C PKD-QN-C	BP-1L	# of Bottles: 4	Preservative:	Lugols	Enter Number of Bottles Sent to Lab _____

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: 153484 Ben Harden

RQ-

2020-01-20-32

Project:

HAB

- 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 07/20

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.	Ben Harden	10/09/20	0855	20.8	758.1	8.9	8.95	99.8		1.055	P/F	L/F
ICV	"	"	0908	20.6	758.8	8.9	8.94	99.5			P/F	L/F
CCV	"	"	1246	26.1	758.1	8.1	8.16	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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	Ben Harden	10/09/20	0857	191120D	12/20	1000	1001	P/F	L/F
ICV	"	"	0858	2911C93	11/21	100.0	104.4	P/F	L/F
CCV	"	"	1217	2911C93	11/21	100.0	103.8	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.	Ben Harden	10/09/20	0901	200407B	10/21	7.01	20.6	-40.5	7.02	P/F	L/F
Calibr.	"	"	0903	191120A	06/21	4.00	19.7	4.00	136.3	P/F	L/F
Calibr.	"	"	0905	191120C	06/21	10.06	19.7	10.06	204.8	P/F	L/F
ICV	"	"	0906	"	"	10.08	19.2	10.03	-204.7	P/F	L/F
CCV	"	"	1224	190405E	10/20	1.00	20.8	1.19	289.2	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 10 164.3, slope from 4 to 7 176.8 (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: 07/20

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	Ben Harden	10/09/20	0850	0.000	0.000	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:

