

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: Desi

RQ: 09-06-43

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

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	9/23/21	756	21.1	758.4	8.9	—	99.8	—	1.07	P/F	L/F
ICV	↓	↓	757	21.1	758.5	8.9	8.87	99.7	—	1.07	P/F	L/F
CCV	Kim Appleby	↓	1704	22.8	758.0	8.6	8.58	99.7	—	1.07	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 Davis	9/23/21	736	210426B	5/22	1000	1000	P/F	L/F
ICV	↓	↓	739	210426D	5/22	20,000	19518	P/F	L/F
CCV	Kim Appleby	↓	1707	210426A	5/22	100	103.3	P/F	L/F
CCV	↓	↓	1708	210426L	5/22	1413	1421	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	9/23/21	745	2104E81	4/23	7.02	21.0	7.02	-18.1	P/F	L/F
Calibr.	↓	↓	747	2107640	7/23	4.00	21.5	4.00	160.3	P/F	L/F
Calibr.	↓	↓	752	2107A04	12/22	10.04	21.3	10.04	-191.1	P/F	L/F
ICV	↓	↓	754	2104E81	4/23	7.02	21.2	7.06	-18.7	P/F	L/F
CCV	Kim Appleby	↓	1715	2107640	7/23	4.00	21.8	4.14	151.5	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 _____, slope from 4 to 7 _____ (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

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	9/23/21	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:

Cyanobacteria Bloom Response Field Data Sheet

RQ-2021- 09-06-43		Collected By: Brian Davis, Ashlen W.								
Customer	WQAP	Field Report Prepared By:	Ashlen Ward							
Project ID:	BLOOM_RESP	Sampling Agency:	FDEP							
WIN ID/Field ID:  NEHAB0036 Lions Club Boat Ramp		Comments:								
Matrix: Marine		Collection Equipment:	ortho #7							
Tide: ☒ Rising ☐ Falling ☐ Slack ☐ N/A		Coordinates:	30.78413, 81.62138							
		High Tide Time:	12:07							
		Low Tide Time:	6:29							
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)
9/23/21	9:54 am	6.51	84.5	28.0	7.64	0.3	5,644	3.04	0.5	1.65
	9:56 am	6.49	84.2	28.0	7.63	1.15	5,739	3.09		
Bloom Observations										
Algal Bloom Observed?		☒ Yes ☐ No								
Water Surface	☒ Clear	☐ Scum	☐ Glob's		☐ 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	Exp:				☐ <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					
Lm Ward	9/23/21 / 16:00p	2								

Cyanobacteria Bloom Response Field Data Sheet

RQ-2021-09-06-43		Collected By: Brian D. Ashley W.								
Customer	WQAP	Field Report Prepared By:	Brian D. Ashley W.							
Project ID:	BLOOM_RESP	Sampling Agency:	FDEP							
Field ID:		Comments:								
WIN ID/Field ID:  NEHAB0037 COJ St Johns Marina		Collection Equipment: Outbo #7								
Matrix:	Fresh	Coordinates:	30.319900, -81.661640							
Tide:	☒ Rising ☐ Falling ☐ Slack ☐ N/A	High Tide Time:	1236							
		Low Tide Time:	649							
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)
9/23/21	1055	6.68	84.7	28.0	7.82	0.3	1425	0.71	0.5	1.15
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 SA 1105060		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				
B. P.	9/23/21 1600	2								

Cyanobacteria Bloom Response Field Data Sheet

RQ-2021- 09-06-43		Collected By: Brian D. Ashler W	
Customer	WQAP	Field Report Prepared By: Brian Davis	
Project ID:	BLOOM_RESP	Sampling Agency:	FDEP

WIN ID/Field ID:  NEHAB0038

Canal to Marco Lake

Comments:

Matrix: Fresh		☒ Grab		Collection Equipment: O-150 #7	
				Coordinates: 30.301420, -81.657990	
Tide:	☐ Rising ☐ Falling ☐ Slack ☐ N/A	High Tide Time: 1236		Low Tide Time: 649	

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)
9/23/21	1122	7.36	94.2	28.0	7.90	0.3	1091	0.54	0.4	1.39

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: Algae	

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:	Date/Time	Number of Coolers Shipped	Received By:	Date/Time
B-D-	9/23/21 1600	2		

Cyanobacteria Bloom Response Field Data Sheet

RQ-2021- 09-06-43		Collected By: Brian Davis, Ashlen Ward								
Customer	WQAP	Field Report Prepared By:	Ashlen Ward							
Project ID:	BLOOM_RESP	Sampling Agency:	FDEP							
Field ID:		Comments:								
WIN ID/Field ID:  NEHAB0039										
Mouth of Craig Creek		Collection Equipment:	ortho #7							
Matrix:	fresh	Coordinates:	30.295750, -81.652670							
Tide:	☒ Rising ☐ Falling ☐ Slack ☐ N/A	High Tide Time:	6:49							
		Low Tide Time:	12:36							
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)
9/23/21	11:39	7.27 91.6	33.2	27.5	7.73	0.3 m	1,245	0.62	0.30	0.938
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	5A0353110	Exp:	1/11/2022	☐ <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					
Ash Ward	9/23/21/16:00									

Cyanobacteria Bloom Response Field Data Sheet

RQ-2021-09-06-43		Collected By:	Barry D. Ashles W.	
Customer	WQAA	Field Report Prepared By:	Barry D.	
Project ID:	BLOOM_RESP	Sampling Agency:	FDEP	

WIN ID/Field ID:  NEHAB0040

Mouth of Goodby's Creek

Comments:

Matrix:	Flesh	Collection Equipment:	Ort # 7
Tide:	☒ Rising ☐ Falling ☐ Slack ☐ N/A	Coordinates:	30.216090, -81.622400
		High Tide Time:	1337
		Low Tide Time:	759

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)
9/23/21	1354	7.60	98.6	28.7	7.8	0.3	785	0.38	0.8	1.19

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:	Date/Time	Number of Coolers Shipped	Received By:	Date/Time
B-D	9/23/21 1600	2		