

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: 455

RQ- 2021-10-11-62

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.	J Purnish	10/14/21	805	21.2	760	8.9	8.84	100.0	—	1.07	P/F	L/F
ICV	J	10/14/21	816	21.2	760	8.9	8.89	100.0	—	1.07	P/F	L/F
CCV	J Purnish	10/14/21	81409	22.1	759	8.7	8.78	100.6	—	—	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.	J Purnish	10/14/21	807	210426B	5/22	1000	1000	P/F	L/F
ICV	J	10/14/21	809	216426A	5/22	107	98.3	P/F	L/F
CCV	J Purnish	10/14/21	1710	210917C	9/22	50000	50062	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.	J Purnish	10/14/21	810	210756B	7/23	7.	21.8	7.00	230	P/F	L/F
Calibr.	J	10/14/21	811	2107640	7/23	4.	21.7	4.00	156	P/F	L/F
Calibr.	J	10/14/21	815	201260B	6/22	10.	21.8	10.00	192	P/F	L/F
ICV	J	10/14/21	819	2107640	7/23	7.	21.7	7.08	23.0	P/F	L/F
CCV	J Purnish	10/14/21	1412	201260B	6/22	10.0	21.6	9.97	192	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 10 169, slope from 4 to 7 179 (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	J Purnish	10/14/21	820	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-2021/0-11-62		Collected By:	Brian D. J. Parris							
Customer	WQMP	Field Report Prepared By:	Brian D.							
Project ID:	BLOOM_RESP	Sampling Agency:	FDEP							
Field ID:		Comments:								
WIN ID/Field ID:		 NEHAB0031 LSJR @ Arlington Boat Ramp								
Matrix:		Collection Equipment:	Ort # 7							
Tide: ☐ Rising ☒ Falling ☐ Slack ☐ N/A		Coordinates:	30.33380, -81.61283							
High Tide Time:		533	Low Tide Time: 1202							
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)
6/14/21	1040	5.91	77.3	26.7	7.56	0.3	14420	8.32		0.9
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	A			
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	3			
Quantitative Algae	☐ DTY-QN-C / PKD-QN-C		☐ Ice		☐ Lugols					
Relinquished By:	Date/Time		Number of Coolers Shipped		Received By:		Date/Time			
B.D.	10/14/21 1600		2							

Cyanobacteria Bloom Response Field Data Sheet

RQ-2021- 10-11-62		Collected By:	B Davis, J Ferris	
Customer	VQMP	Field Report Prepared By:	B Davis	
Project ID:	BLOOM_RESP	Sampling Agency:	FDEP	

WIN ID/Field ID: 
NEHAB0032

Pottsburg Creek @ River Hills Cr E

Comments:

Matrix: M-ri-e		Collection Equipment: Out40 # 7
Tide: ☐ Rising ☐ Falling ☒ Slack ☐ N/A		Coordinates: 20.31468, -81.53451
		High Tide Time: 5:33 Low Tide Time: 1202

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)
1205		4.42	56.4	26.8	7.18	0.3	5085	2.72	V0B	0.7

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-	10/14/21 1600	2		

Cyanobacteria Bloom Response Field Data Sheet

RQ-2021- 10-11-62		Collected By: Brian V. Jeremy P.	
Customer	WQMP	Field Report Prepared By: Brian V.	
Project ID:	BLOOM_RESP	Sampling Agency:	FDEP

WIN ID/Field ID: 

NEHAB0059

Ortega River @ Imperial Cove Rd

Comments:

Matrix:	Marize	Grab	Collection Equipment:	O+6 #7
Tide:	☐ Rising ☒ Falling ☐ Slack ☐ N/A	Coordinates:	30.2511, -81.7019	
		High Tide Time:	6 11	Low Tide Time: 1240

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)
10/14/21	1245	5.16	64.0	26.5	7.24	0.3	830	0.40	1.0	1.2

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-V	10/14/21 1600	2		

Cyanobacteria Bloom Response Field Data Sheet

RQ-2021-10-11-62		Collected By: B Davis, J Feltish	
Customer: WQMP	Field Report Prepared By: B Davis		
Project ID: BLOOM_RESP	Sampling Agency: FDEP		

WIN ID/Field ID:  NEHAB0036

Lions Club Boat Ramp

Comments:

Matrix: Marge		Grab		Collection Equipment: Orlco #7	
		Coordinates: 30.37861-81.6228			
Tide:	☐ Rising ☒ Falling ☐ Slack ☐ N/A	High Tide Time: 514	Low Tide Time: 1143		

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)
10/14/21	1010	5.58	78.2	26.9	7.64	0.3	21244	12.77	1.0	6.1
	1012	5.58	76.5	26.9	7.66	5.6	26344	16.05		

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: B. Davis	Date/Time: 10/14/21 1600	Number of Coolers Shipped: 2	Received By:	Date/Time:
---------------------------	--------------------------	------------------------------	--------------	------------

Cyanobacteria Bloom Response Field Data Sheet

RQ-2021-10711-62		Collected By: B Davis, J Lewis	
Customer: WQM P	Field Report Prepared By: B Davis		
Project ID: BLOOM_RESP	Sampling Agency: FDEP		

WIN ID/Field ID: 
NEHAB0050

Trout R @ BM ramp

Comments:

Matrix: Mucous		Grab		Collection Equipment: Outlet #7	
Tide: ☐ Rising ☒ Falling ☐ Slack ☐ N/A		Coordinates: 30.4037, -81.6636		High Tide Time: 514 Low Tide Time: 1143	

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)
10/14/21	945	4.95	63.7	25.1	7.18	0.25	18350	10.85	0.5	0.5

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: B-D	Date/Time: 10/14/21 1600	Number of Coolers Shipped: 2	Received By:	Date/Time:
----------------------	--------------------------	------------------------------	--------------	------------