

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: 2021-10-18-54

Project: Algal 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.	Brian Davis	11/1/21	833	20.9	764.1	9.0	—	100.5	—	1.07	(P) F	(L) F
ICV	↓	↓	835	21.0	764.2	9.0	8.94	100.3	—	1.07	(P) F	(L) F
CCV	Kim Appleby	↓	1540	21.6	763.3	8.8	8.85	100.6	—	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	11/1/21	754	210917B	9/22	1000	1000	(P) F	(L) F
ICV	↓	11/1/21	756	210426A	5/22	100	101.6	(P) F	(L) F
CCV	Kim Appleby	11/1/21	1542	210426C	5/22	1413		P / F	L / F
CCV			1546	210917B	9/22	1000	999	(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	11/1/21	820	2107F56	7/23	7.02	20.9	7.02	-19.8	(P) F	(L) F
Calibr.	↓	↓	821	2107G40	7/23	4.00	21.1	4.00	157.5	(P) F	(L) F
Calibr.	↓	↓	826	2012E08	6/22	10.04	21.0	10.05	-191.5	(P) F	(L) F
ICV	↓	↓	830	2107F56	7/23	7.02	21.1	7.08	-21.1	(P) F	(L) F
CCV	Kim Appleby	↓	1550	2012E08	6/22	10.64	20.9	10.09	-194.9	(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 ± 50 ;

mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 171.7, slope from 4 to 7 177.3 (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: 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	Brian Davis	11/1/21	836	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- 10-18-54	Collected By: B Davis, Kim A
Customer: NE-Dist	Field Report Prepared By: B Davis
Project ID: BLOOM_RESP	Sampling Agency: FDEP
Field ID:	Comments:

WIN ID/Field ID:



NEHAB0040

Mouth of Goodby's Creek

Matrix: Fleshy	Collection Equipment: O-450 #44
Grab	Coordinates: 30.21622-81.622840
Tide: ☐ Rising ☒ Falling ☐ Slack ☐ N/A	High Tide Time: 711 Low Tide Time: 1247

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)
11/1/21	1005	8.20	88.0	18.6	7.81	0.3	825	0.41	0.5	1.45

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. P.	Date/Time: 11/1/21 1600	Number of Coolers Shipped: 2	Received By:	Date/Time:
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Cyanobacteria Bloom Response Field Data Sheet

RQ-2021- 10-18-54	Collected By: Brian D. Kin A
Customer: NE-Dist	Field Report Prepared By: Brian D.
Project ID: BLOOM_RESP	Sampling Agency: FDEP

WIN ID/Field ID:



NEHAB0046

Plumber's Cove

Comments:

Collection Equipment: Outho 44
Matrix: Fresh (Grab)
Coordinates: 30.191440, -81.636990
Tide: ☐ Rising ☒ Falling ☐ Slack ☐ N/A
High Tide Time: 711 Low Tide Time: 1247

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)
11/1/21	1045	8.44	92.9	20.0	7.86	0.3	789	0.39	0.6	1.7
	1047	8.17	88.5	19.1	7.80	1.2	798	0.39		

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:

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	D
Preserved Nutrients (500mL HDPE)	☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP	☒ Ice ☐ H2SO4	☒ <2	1	B
	Lot SA1105000 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: 11/1/21 1600	Number of Coolers Shipped: 2	Received By:	Date/Time:
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Cyanobacteria Bloom Response Field Data Sheet

RQ-2021-10-18-54		Collected By: Brian D. Kim A.								
Customer	NE-Dist	Field Report Prepared By: Brian D.								
Project ID:	BLOOM_RESP	Sampling Agency:	FDEP							
WIN ID/Field ID:  NEHAB0047		Comments:								
Mouth of Deep Bottom Creek		Collection Equipment:	Outbo #44							
Matrix:	Flesh	Coordinates:	30.177180, -81.642890							
Tide:	☐ Rising ☒ Falling ☐ Slack ☐ N/A	High Tide Time:	711							
		Low Tide Time:	1247							
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)
11/1/21	1115	8.14	87.0	18.5	7.74	0.15	727	0.36	VOB	0.3
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	D			
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	11/1/21 1600		2							

Cyanobacteria Bloom Response Field Data Sheet

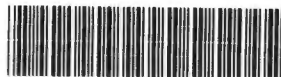
RQ-2021-10-18-54		Collected By: Brian D. Kin A								
Customer	NE-Dist	Field Report Prepared By: Brian D.								
Project ID:	BLOOM_RESP	Sampling Agency:	FDEP							
WIN ID/Field ID:  NEHAB0029		Comments:								
LSJR @ end of Blake Ave		Collection Equipment:	Out to # 44							
Matrix:	Fresh	Coordinates: 30.174360, -81.697140								
Tide:	☐ Rising ☒ Falling ☐ Slack ☐ N/A	High Tide Time:	711							
		Low Tide Time:	1247							
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)
11/1/21	1150	7.84	87.0	21.3	7.82	0.3	795	0.39	VOB	0.6
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.	11/1/21 1600	2								

Cyanobacteria Bloom Response Field Data Sheet

RQ-2021- 10-18-54		Collected By:	Brian D. Kin A.
Customer	NE-Dist	Field Report Prepared By:	Brian D.
Project ID:	BLOOM_RESP	Sampling Agency:	FDEP

Comments:

WIN ID/Field ID:



NEHAB0042

Yacht Basin

Matrix: Fresh		Collection Equipment: O ₂ + 40 #44
Tide: ☒ Rising ☐ Falling ☐ Slack ☐ N/A		Coordinates: 30.250950, -81.689650
High Tide Time: 711		Low Tide Time: 1247

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)
11/1/21	1235	8.01	89.9	20.9	7.82	0.3	845	0.42	0.8	1.3

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.	11/1/21 1600	2			

Cyanobacteria Bloom Response Field Data Sheet

RQ-2021- 10-18-54		Collected By:	Baron P. Kin A.	
Customer	NE-Dist	Field Report Prepared By:	Baron P.	
Project ID:	BLOOM_RESP	Sampling Agency:	FDEP	
Field ID:		Comments:		

WIN ID/Field ID:  NEHAB0024

Christopher Creek below San Jose Blvd

Collection Equipment:	O ₂ #44				
Coordinates:	30.252660, -81.641990				
Matrix:	Fles	High Tide Time:	711	Low Tide Time:	1247
Tide:	☒ Rising ☐ Falling ☐ Slack ☐ N/A				

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)
11/1/21	1305	6.93	74.1	18.7	7.29	0.3	606	0.30	VO 3	0.8

Bloom Observations						
Algal Bloom Observed? ☒ Yes ☐ No						
Water Surface	☒ Clear	☐ Scum	☐ Globbs	☐ 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	D
	Lot 5A1105060	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. K.	11/1/21 1600	2		