

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-

2021-07-26-26

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

7/8/21

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. Lee	8/4/21	0726	22.3	759.3	8.7	8.7	99.9	-	1.06	P/F	L/F
ICV			0727	22.3	759.3	8.7	8.68	99.9	-	1.06	P/F	L/F
CCV			1616	24.8	759.3	8.3	8.25	99.6	-	1.06	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. Lee	8/4/21	0730	210426B	05/22	1000	1000	P/F	L/F
ICV			0732	210426A	05/22	1000	1000	P/F	L/F
CCV			1619	210426C	05/22	1413	1407.0	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.	J. Lee	8/4/21	0740	2012E39	12/22	7.01	21.8	7.01	-15.1	P/F	L/F
Calibr.			0743	2103659	03/23	4.00	22.5	4.00	165.3	P/F	L/F
Calibr.			0745	2107A04	12/22	10.02	23.0	10.02	-187.7	P/F	L/F
ICV			0747	2103659	03/23	4.00	22.7	4.02	161.8	P/F	L/F
CCV			1621	2107A04	12/22	10.02	22.7	10.09	-192.5	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 10 172.6, slope from 4 to 7 178.8 (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: 5/18/21

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. Lee	8/4/21	0748	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

2021 RQ-2019-07-26-26		Collected By:	NEROC	
Customer	WQAP	Field Report Prepared By:	Brick Davis	
Project ID:	BLOOM_RESP	Sampling Agency:	FDEP	
Field ID:	Comments:			

WIN ID/Field ID:  NEHAB0024

Christopher Creek below San Jose Blvd

Collection Equipment:	Outlet #3
Coordinates:	20.252740, -81.641970

Matrix: SW (Grab)

Tide: ☒ Rising ☐ Falling ☐ Slack ☐ N/A

High Tide Time: Low Tide Time:

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)
8/4/21	1130	3.81	48.5	27.2	6.90	0.3	299.2	0.14	0.728	0.728

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: 7/30/22		☐ <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. Davis	8/4/21 1600	1		

LIMs QC'd: BD 08/17/2021

Cyanobacteria Bloom Response Field Data Sheet

2021 RQ-2019-07-26-26		Collected By: B Davis, J Lee, A Hogue								
Customer: WQAP	Field Report Prepared By: B Davis									
Project ID: BLOOM_RESP	Sampling Agency: FDEP									
Field ID:		Comments:								
WIN ID/Field ID:  NEHAB0025										
LSJR end of Oakvale Rd		Collection Equipment: Outho #3								
Matrix: SW	Grab	Coordinates: 30.109775, -81.642025								
Tide: ☐ Rising ☒ Falling ☐ Slack ☐ N/A	High Tide Time:	Low Tide Time:								
Water Quality										
Date	Time ☒ EST ☐ CEN	D.O. (mg/L)	D.O. (%)	Temp °C	pH (SU)	Sample Depth (m)	Cond. (umho/cm)	Salinity (PPTth)	Secchi Disk (m)	Total Depth (m)
8/4/21	1340	7.57	99.9	29.7	7.74	0.2	660	0.32	0.397	0.397
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 = P =	8/4/21 1600	1								

LIMs QC'd: BD 08/17/2021

Cyanobacteria Bloom Response Field Data Sheet

2021 RQ-2019-07-26-26		Collected By: Brian Davis								
Customer: WQAP	Field Report Prepared By: Jessica Lee									
Project ID: BLOOM_RESP	Sampling Agency: FDEP									
Field ID:		Comments: Samples were late getting on Ice, Preserved 35 minutes after collection								
WIN ID/Field ID:  NEHAB0026 LSJR @ Mandarin Pointe		Collection Equipment: 0-to #3								
Matrix: <u>SW</u> <u>Grab</u>	Coordinates: 30.148002, -81.65172									
Tide: ☐ Rising ☒ Falling ☐ Slack ☐ N/A	High Tide Time:	Low Tide Time:								
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)
8/4/21	1430	9.05	120.7	30.5	8.07	0.3	602	0.29	0.488	0.488
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: B-D-	Date/Time: 8/4/21 1600	Number of Coolers Shipped: 1		Received By:		Date/Time:				

LIMs QC'd: BD 08/17/2021