

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: Stitch

RQ: 2022-11-14-57

Project: Dr Lake Algae R.

- 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

11/14/22

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	12/8/22	822	22.6	767.0	8.7	8.7	100.9	✓	1.07	P/F	L/F
ICV		↓	824	22.6	767.0	8.7	8.73	100.9	✓	1.07	P/F	L/F
CCV	Kathryn Villinger	↓	1554	22.0	764.6	8.8	8.83	101.0	-	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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	Brian Davis	12/8/22	753	220719A	7/23	1000	1000	P/F	L/F
ICV		↓	755	221028B	11/23	1413	1411	P/F	L/F
CCV	KVillinger	↓	1557	40917A	3/23	100	99.9	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.	Brian Davis	12/8/22	805	M118-15	5/24	7.01	22.9	7.01	-33.7	P/F	L/F
Calibr.		↓	809	L344-18	12/23	4.00	22.7	4.00	142.3	P/F	L/F
Calibr.		↓	815	M103-01	4/24	10.02	22.9	10.02	-207.4	P/F	L/F
ICV		↓	818	L344-18	12/23	4.00	22.8	4.00	141.7	P/F	L/F
CCV	KVillinger	↓	1559	M103-01	4.24	10.02	22.6	10.03	-207.8	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 10 173.7, slope from 4 to 7 176.0 (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: 11/14/22

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	12/8/22	823	0.00	0.001	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 (2022-08-15 v1)

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RQ - 2022-11-14-57				Collected By:		Brian Davis, Katrin Villinger					
Customer:		WQAP		Field Report Prepared By:		Brian Davis					
Project ID:		BLOOM_RESP		Sampling Agency:		NEROC					
Location: Black Creek @ SR-17				Comments:							
Field ID: NEHAB0035				Coordinates:		30.04204, -81.71186					
WIN Secondary Resource Type: River/Stream				Collection Equip:		WaterBottle					
WIN ID: NEHAB0035				High Tide Time:		13:00		Low Tide Time:		07:00	
Matrix:		Fresh		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 (PPTH)	
12/08/2022	10:55	62.5	5.61	21	6.96	0.3	1.8	0.6	333.5	0.16	
	10:57	57.1	5.17	20.4	6.79	1.3			291	0.14	
Bloom Observations											
Algal Bloom Observed? ☐ Yes ☒ No											
Water Clarity		☐ Clear		☒ Slightly Turbid		☐ Turbid		☐ Opaque			
Bloom Color		☐ Green		☐ Red		☐ Brown		☐ Other:			
Algae Type		☐ Planktonic		☐ Filamentous		☐ Other:					
Algae Accumulation		☐ Mat		☐ Specks		☐ Scum		☐ Glob			
Algae Distribution		☐ Surface-Entire		☐ Surf-Localized		☐ Surf-Windblown		☐ Suspended		☐ Benthic ☐ Epiphytic	
Parameter Suite		Parameter Methods				Preservation		pH Check	#Bottles Sent to Lab	Bottle Group	
Algal ID (PT-50mL)		☐ ALGAL-ID				☐ Ice					
Bloom ID (PT-50mL)		☒ BLOOM-ID				☒ Ice			1	A	
Chlorophyll (BP-1L)		☒ CHLSUITE-W				☒ Ice			1	C	
Toxins (P-125/BG-250)		☒ W-MCYST-AA ☒ W-SAXTN-MS ☐ OV-TOXN				☒ Ice			1	C	
Preserved Nutrients (500mL HDPE)		☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP				☒ Ice ☒ H2SO4		☒ <2	1	C	
		SA2229010		Exp:		8/30/23					
Filtered Nutrients (P125mL)		☒ W-PO4-F		☒ Field Filtered 0.45um Filter		☒ Ice			1	C	
		Filter Lot #		175533							
Quantitative Algae		☐ DTY-QN-C / PKD-QN-C				☐ Ice ☐ Lugols					
Relinquished By:		Date/Time		Number of Coolers Shipped		Received By:		Date/Time			
Brian Davis		12/08/2022 16:30		2							



Cyanobacteria Bloom Response Field Data Sheet (2022-08-15 v1)

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RQ - 2022-11-14-57				Collected By:		Brian Davis , Katrin Villinger					
Customer:		WQAP		Field Report Prepared By:		Brian Davis					
Project ID:		BLOOM_RESP		Sampling Agency:		NEROC					
Location: Doctor's Lake @ Mill Cove				Comments:							
Field ID: NEHAB0057				Coordinates:		30.12419, -81.72678					
WIN Secondary Resource Type: Lake				Collection Equip:		WaterBottle					
WIN ID: NEHAB0057				High Tide Time:		12:45		Low Tide Time:		06:30	
Matrix:		Fresh		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 (PPTH)	
12/08/2022	12:10	100.7	8.97	21	7.69	0.3	2.3	0.7	969	0.48	
	12:14	91	8.19	20.3	7.51	1.8			986	0.49	
Bloom Observations											
Algal Bloom Observed? ☐ Yes ☒ No											
Water Clarity		☐ Clear		☒ Slightly Turbid		☐ Turbid		☐ Opaque			
Bloom Color		☐ Green		☐ Red		☐ Brown		☐ Other:			
Algae Type		☐ Planktonic		☐ Filamentous		☐ Other:					
Algae Accumulation		☐ Mat		☐ Specks		☐ Scum		☐ Glob			
Algae Distribution		☐ Surface-Entire		☐ Surf-Localized		☐ Surf-Windblown		☐ Suspended		☐ Benthic ☐ Epiphytic	
Parameter Suite		Parameter Methods				Preservation		pH Check	#Bottles Sent to Lab	Bottle Group	
Algal ID (PT-50mL)		☐ ALGAL-ID				☐ Ice					
Bloom ID (PT-50mL)		☒ BLOOM-ID				☒ Ice			1	A	
Chlorophyll (BP-1L)		☒ CHLSUITE-W				☒ Ice			1	C	
Toxins (P-125/BG-250)		☒ W-MCYST-AA ☒ W-SAXTN-MS ☐ OV-TOXN				☒ Ice			1	C	
Preserved Nutrients (500mL HDPE)		☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP				☒ Ice ☒ H2SO4		☒ <2	1	C	
		Acid Lot:		SA2229010		Exp:		8/30/23			
Filtered Nutrients (P125mL)		☒ W-PO4-F		☒ Field Filtered 0.45um Filter		☒ Ice			1	C	
		Filter Lot #		175533							
Quantitative Algae		☐ DTY-QN-C / PKD-QN-C				☐ Ice ☐ Lugols					
Relinquished By:		Date/Time		Number of Coolers Shipped		Received By:		Date/Time			
Brian Davis		12/08/2022 16:30		2							



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RQ - 2022-11-14-57				Collected By:		Brian Davis , Katrin Villinger					
Customer:		WQAP		Field Report Prepared By:		Brian Davis					
Project ID:		BLOOM_RESP		Sampling Agency:		NEROC					
Location: Swimming Pen Cr @ Whitey's Fish Camp				Comments:							
Field ID: NEHAB0074				Coordinates:		30.10100, -81.74642					
WIN Secondary Resource Type: River/Stream				Collection Equip:		WaterBottle					
WIN ID: NEHAB0074				High Tide Time:		12:45		Low Tide Time:		06:30	
Matrix:		Fresh		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 (PPTH)	
12/08/2022	12:55	106.5	9.27	22.1	7.7	0.3	0.9	0.7	1107	0.55	
Bloom Observations											
Algal Bloom Observed? ☐ Yes ☒ No											
Water Clarity		☒ Clear ☐ Slightly Turbid ☐ Turbid ☐ Opaque									
Bloom Color		☐ Green ☐ Red ☐ Brown ☐ Other:									
Algae Type		☐ Planktonic ☐ Filamentous ☐ Other:									
Algae Accumulation		☐ Mat ☐ Specks ☐ Scum ☐ Glob									
Algae Distribution		☐ Surface-Entire ☐ Surf-Localized ☐ Surf-Windblown ☐ Suspended ☐ Benthic ☐ Epiphytic									
Parameter Suite		Parameter Methods				Preservation		pH Check	#Bottles Sent to Lab	Bottle Group	
Algal ID (PT-50mL)		☐ ALGAL-ID				☐ Ice					
Bloom ID (PT-50mL)		☒ BLOOM-ID				☒ Ice			1	A	
Chlorophyll (BP-1L)		☒ CHLSUITE-W				☒ Ice			1	C	
Toxins (P-125/BG-250)		☒ W-MCYST-AA ☒ W-SAXTN-MS ☐ OV-TOXN				☒ Ice			1	C	
Preserved Nutrients (500mL HDPE)		☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP SA2229010 Acid Lot: Exp:				☒ Ice ☒ H2SO4		☒ <2	1	C	
Filtered Nutrients (P125mL)		☒ W-PO4-F		☒ Field Filtered 0.45um Filter Filter Lot # 175533		☒ Ice			1	C	
Quantitative Algae		☐ DTY-QN-C / PKD-QN-C				☐ Ice ☐ Lugols					
Relinquished By:		Date/Time		Number of Coolers Shipped		Received By:		Date/Time			
Brian Davis		12/08/2022 16:30		2							



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RQ - 2022-11-14-57				Collected By:			Brian Davis , Katrin Villinger															
Customer:		WQAP		Field Report Prepared By:			Brian Davis															
Project ID:		BLOOM_RESP		Sampling Agency:			NEROC															
Location: Dr’s Lake at Camp Echockotee					Comments:																	
Field ID: NEHAB0085					Coordinates:		30.15035, -81.72483															
WIN Secondary Resource Type: Lake					Collection Equip:		WaterBottle															
WIN ID: NEHAB0085					High Tide Time:		12:45		Low Tide Time:		06:30											
Matrix:		Fresh		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 _h)		
12/08/2022		11:45		82.5		7.25		21.6		7.34		0.3		1.2		0.5		705		0.34		
Bloom Observations																						
Algal Bloom Observed? ☐ Yes ☒ No																						
Water Clarity		☒ Clear		☐ Slightly Turbid		☐ Turbid		☐ Opaque														
Bloom Color		☐ Green		☐ Red		☐ Brown		☐ Other:														
Algae Type		☐ Planktonic		☐ Filamentous		☐ Other:																
Algae Accumulation		☐ Mat		☐ Specks		☐ Scum		☐ Glob														
Algae Distribution		☐ Surface-Entire		☐ Surf-Localized		☐ Surf-Windblown		☐ Suspended		☐ Benthic		☐ Epiphytic										
Parameter Suite			Parameter Methods						Preservation			pH Check		#Bottles Sent to Lab		Bottle Group						
Algal ID (PT-50mL)			☐ ALGAL-ID						☐ Ice													
Bloom ID (PT-50mL)			☒ BLOOM-ID						☒ Ice					1		A						
Chlorophyll (BP-1L)			☒ CHLSUITE-W						☒ Ice					1		C						
Toxins (P-125/BG-250)			☒ W-MCYST-AA ☒ W-SAXTN-MS ☐ OV-TOXN						☒ Ice					1		C						
Preserved Nutrients (500mL HDPE)			☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP						☒ Ice		☒ H2SO4		☒ <2		1		C					
			Acid Lot:		SA2229010				Exp:		8/30/23											
Filtered Nutrients (P125mL)			☒ W-PO4-F		☒ Field Filtered 0.45um Filter				☒ Ice				1		C							
					Filter Lot #		175533															
Quantitative Algae			☐ DTY-QN-C / PKD-QN-C						☐ Ice								☐ Lugols					
Relinquished By:		Date/Time		Number of Coolers Shipped						Received By:							Date/Time					
Brian Davis		12/08/2022 16:30		2																		