

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: Bruce

RQ: 2022-09-26-35

Project: Dr. Lake Algal Run

- 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 8/1/22

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	10/6/22	751	21.5	762.5	8.9	8.9	100.4	✓	1.02	Ⓟ/F	Ⓛ/F
ICV			754	21.3	763.0	8.9	100.6	8.91	✓	1.02	Ⓟ/F	Ⓛ/F
CCV	K. Halbert	10/6/22	1547	22.3	761.5	8.7	8.70	100.1	✓	1.02	Ⓟ/F	Ⓛ/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	10/6/22	736	220719A	7/23	1000	1000	Ⓟ/F	Ⓛ/F
ICV			738	211122A	12/22	15,000	15,083	Ⓟ/F	Ⓛ/F
CCV	K. Halbert	10/6/22	1555	210917A	3/23	100	100.8	Ⓟ/F	Ⓛ/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	10/6/22	742	M074-20	3/24	7.01	21.5	7.01	-10.1	P/F	L/F
Calibr.			744	L344-18	12/23	4.00	21.5	4.00	166.0	P/F	L/F
Calibr.			747	2202F29	8/23	10.04	21.4	10.04	-181.9	P/F	L/F
Calibr.			749	M074-20	3/24	7.01	21.5	7.03	-9.2	P/F	L/F
ICV										Ⓟ/F	Ⓛ/F
CCV	K. Halbert	10/6/22	1556	L344-18	12/23	4.00	22.0	3.96	167.5	Ⓟ/F	Ⓛ/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 10 171.8, slope from 4 to 7 176.1 (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: _____; Date of last verification: _____
 If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: _____

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	10/6/22	752	0.00	0.00	Ⓟ/F	Ⓛ/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 - 2022-09-26-35				Collected By:		Brian Davis, Katherine Halbert					
Customer:		WQAP		Field Report Prepared By:		Katherine Halbert					
Project ID:		BLOOM_RESP		Sampling Agency:		NEROC					
Location: Doctor's Lake @ Mill Cove				Comments:							
Field ID: NEHAB0057				Coordinates:		30.12438, -81.72774					
WIN Secondary Resource Type: Lake				Collection Equip:		WaterBottle					
WIN ID: NEHAB0057				High Tide Time:		1036		Low Tide Time:		1714	
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)	
10/06/2022	12:30	122.6	10.44	23.1	8.34	0.3	2.694	0.55	2343	1.21	
	12:32	80	6.95	22	7.51	2.194				2422	
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	B	
Toxins (P-125/BG-250)		☒ W-MCYST-AA ☒ W-SAXTN-MS ☐ OV-TOXN				☒ Ice			1	B	
Preserved Nutrients (500mL HDPE)		☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP				☒ Ice ☒ H2SO4		☒ <2	1	B	
		Acid Lot:		2145160		Exp:		06/07/23			
Filtered Nutrients (P125mL)		☒ W-PO4-F		☒ Field Filtered 0.45um Filter		☒ Ice			1	B	
				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		
Katherine Halbert		10/06/2022 16:30		2							



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RQ - 2022-09-26-35				Collected By:		Brian Davis, Katie Halbert					
Customer:		WQAP		Field Report Prepared By:		Katie Halbert					
Project ID:		BLOOM_RESP		Sampling Agency:		NEROC					
Location: Dr's Lake end of Lawrence Rd				Comments:							
Field ID: NEHAB0073				Coordinates:		30.12940, -81.75134					
WIN Secondary Resource Type: Lake				Collection Equip:		WaterBottle					
WIN ID: NEHAB0073				High Tide Time:		1036		Low Tide Time:		1752	
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)	
10/06/2022	12:15	126.7	10.79	22.9	8.55	0.3	1.85	0.65	2366	1.22	
	12:11	98.2	8.44	22.5	7.96	1.35			2384	1.23	
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	B	
Toxins (P-125/BG-250)		☒ W-MCYST-AA ☒ W-SAXTN-MS ☐ OV-TOXN				☒ Ice			1	B	
Preserved Nutrients (500mL HDPE)		☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP				☒ Ice ☒ H2SO4		☒ <2	1	B	
		Acid Lot: 2145160		Exp: 06/07/23							
Filtered Nutrients (P125mL)		☒ W-PO4-F		☒ Field Filtered 0.45um Filter		☒ Ice			1	B	
		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			
Katie Halbert		10/06/2022 16:30		2							



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RQ - 2022-09-26-35				Collected By:		Brian Davis, Katherine Halbert					
Customer:		WQAP		Field Report Prepared By:		Katherine Halbert					
Project ID:		BLOOM_RESP		Sampling Agency:		NEROC					
Location: Swimmng Pen Cr @ Whitey's Fish Camp				Comments:							
Field ID: NEHAB0074				Coordinates:		30.10109, -81.74644					
WIN Secondary Resource Type: River/Stream				Collection Equip:		WaterBottle					
WIN ID: NEHAB0074				High Tide Time:		1000		Low Tide Time:		1700	
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)	
10/06/2022	13:10	68.3	5.84	23.3	7.05	0.3	1.386	0.7	1768	0.9	
	13:09	65.7	5.62	22.6	7.05	0.885			1797	0.91	
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	B	
Toxins (P-125/BG-250)		☒ W-MCYST-AA ☒ W-SAXTN-MS ☐ OV-TOXN				☒ Ice			1	B	
Preserved Nutrients (500mL HDPE)		☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP				☒ Ice ☒ H2SO4		☒ <2	1	B	
		Acid Lot: 2145160		Exp: 06/07/23							
Filtered Nutrients (P125mL)		☒ W-PO4-F		☒ Field Filtered 0.45um Filter		☒ Ice			1	B	
		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			
Katherine Halbert		10/06/2022 16:30		2							



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RQ - 2022-09-26-35				Collected By:		Brian Davis, Katherine Halbert						
Customer:		WQAP		Field Report Prepared By:		Katherine Halbett						
Project ID:		BLOOM_RESP		Sampling Agency:		NEROC						
Location: LSJR @ 2930 SR 13				Comments: Clear sky, sunny conitions.								
Field ID: NEHAB0077				Coordinates:		30.05027, -81.66956						
WIN Secondary Resource Type: River/Stream				Collection Equip:		WaterBottle						
WIN ID: NEHAB0077				High Tide Time:		1035		Low Tide Time:		1733		
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)		
10/06/2022	10:20	82.8	7.14	22.7	7.49	0.3	2.516	0.9	882	0.43		
	10:26											
	10:23	79.2	6.86	22.4	7.48	2				891	0.44	
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	B		
Toxins (P-125/BG-250)		☒ W-MCYST-AA ☒ W-SAXTN-MS ☐ OV-TOXN				☒ Ice			1	B		
Preserved Nutrients (500mL HDPE)		☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP Acid Lot: SA2145160 Exp: 06/02/23				☒ Ice ☒ H2SO4		<2	1	B		
Filtered Nutrients (P125mL)		☒ W-PO4-F		☒ Field Filtered 0.45um Filter		☒ Ice			1	B		
		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				
Katherine Halbert		10/06/2022 10:32		2								



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Customer:		WQAP		Field Report Prepared By:		Katherine Halbert						
Project ID:		BLOOM_RESP		Sampling Agency:		NEROC						
Location: Dr.'s Lake at Camp Echokotee				Comments:								
Field ID: NEHAB0085				Coordinates:		30.15052, -81.72470						
WIN Secondary Resource Type: Lake				Collection Equip:		WaterBottle						
WIN ID: NEHAB0085				High Tide Time:		1036		Low Tide Time:		1752		
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)		
10/06/2022	11:50	131.2	11.05	23.8	8.5	0.3	1.77	0.45	2057	1.05		
	11:51	119.3	10.18	23.4	8.33	1.27				2052	1.05	
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	B		
Toxins (P-125/BG-250)		☒ W-MCYST-AA ☒ W-SAXTN-MS ☐ OV-TOXN				☒ Ice			1	B		
Preserved Nutrients (500mL HDPE)		☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP Acid Lot: SA2145160 Exp: 06/07/23				☒ Ice ☒ H2SO4		☒ <2	1	B		
Filtered Nutrients (P125mL)		☒ W-PO4-F		☒ Field Filtered 0.45um Filter		☒ Ice			1	B		
				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				
Katherine Halbert		10/06/2022 16:30		2								



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Customer:		WQAP		Field Report Prepared By:		Katherine Halbert					
Project ID:		BLOOM_RESP		Sampling Agency:		NEROC					
Location: Black Creek Park and Trail				Comments: Clear, sunny sky conditions.							
Field ID: NEHAB0096				Coordinates:		30.04545, -81.71231					
WIN Secondary Resource Type: River/Stream				Collection Equip:		WaterBottle					
WIN ID: NEHAB0096				High Tide Time:		1040		Low Tide Time:		1740	
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)	
10/06/2022	10:55	81.1	6.9	23.1	7.11	0.3	5.843	0.6	718	0.35	
	10:54	74.8	6.42	22.9	7.11	5.3			681	0.33	
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	B	
Toxins (P-125/BG-250)		☒ W-MCYST-AA ☒ W-SAXTN-MS ☐ OV-TOXN				☒ Ice			1	B	
Preserved Nutrients (500mL HDPE)		☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP				☒ Ice ☒ H2SO4		☒ <2	1	B	
		Acid Lot:		SA2145160		Exp:		06/07/23			
Filtered Nutrients (P125mL)		☒ W-PO4-F		☒ Field Filtered 0.45um Filter		☒ Ice			1	B	
		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	
Katherine Halbert		10/06/2022 16:30		2							