

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:

YSI 5100

RQ:

2021-12-06-30
2021-10-04-23

Project:

At Sea 6100m
LSP Lakes SMP

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

11/10/21

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. Parnish	11/30/21	815	21.4	766	8.9	8.9	100.8	—	1.013	(P) F	(L) F
ICV	J	11/30/21	816	21.3	766	8.9	8.94	100.9	—	1.013	(P) F	(L) F
CCV	Kim Appleby	11/30/21	1538	21.5	765.4	8.9	8.86	100.4	—	1.013	(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.	J. Parnish	11/30/21	818	210912B	9/22	1000	1000	(P) F	(L) F
ICV	J	11/30/21	819	210626A	5/22	100	98.7	(P) F	(L) F
CCV	Kim Appleby	11/30/21	1541	211122B	12/22	1413	1415	(P) F	(L) F
CCV			1541					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. Parnish	11/30/21	827	210912S	9/23	7.	22.4	7.01	-33.5	(P) F	(L) F
Calibr.	J		828	2107640	7/23	4.	22.3	4.00	140.5	(P) F	(L) F
Calibr.	J		829	2012E08	6/22	10.	22.3	10.03	-205	(P) F	(L) F
ICV	J		830	2107640	7/23	4	22.2	4.05	136.7	(P) F	(L) F
CCV	Kim Appleby		1543	2012E08	6/22	10.02	22.9	10.02	-205.7	(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 10 169.5, slope from 4 to 7 174.9 (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: 11/10/21

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. Parnish	11/30/21	831	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- 12 - 06 - 30		Collected By: Kim Appleby & Jeremy Parrish									
Customer	ZFLA	Field Report Prepared By: Kim Appleby									
Project ID:	BLOOM_RESP	Sampling Agency:	FDEP								
Field ID:		Comments:									
WIN ID/Field ID:		Algae seen in water column as very small specks evenly distributed throughout water column, around dock.									
 NEHAB0006		Collection Equipment: Ortho kit #7									
Crescent lake at Eagle Trail		Coordinates: 29.3847670, -81.4725987									
Matrix:	Fresh	(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 (PPT)	Secchi Disk (m)	Total Depth (m)	
11/30/21	1055	9.46	95.7	15.8	7.35	0.3	348.7	0.17	0.5	0.72	
Bloom Observations											
Algal Bloom Observed?		☒ Yes ☐ No									
Water Surface	☒ Clear	☐ Scum	☒ Globules		☐ 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			2	B				
Toxins (BG-WD250)	☒ W-MCYST-AA		☒ Ice			2	B				
Preserved Nutrients (500mL HDPE)	☒ W-NH3 / W-NO2NO3 / W-TKN / W-S-A-TP Lot SA1105060		☒ Ice ☒ H2SO4 Exp: 4/30/22		☒ <2	1	B				
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				
Kim Appleby	11/30/21 1600		1								