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 RQ- 2018-09-03-36 Project: Algae

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 10/11/2018

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.	M.DUGAN	10/16/18	1052	23.99	760	8.42	8.42	100.0	59.4	0.9923	(P) / F	(L) / F
ICV	"	"	1100	23.78	760	8.45	8.44	99.9	59.4		(P) / F	(L) / F
CCV	"	10/16/18	1337	24.49	760	8.34	8.34	100.1	61.4		(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 µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	M.DUGAN	10/16/18	1052	1805224	06/19	10000	10000	(P) / F	(L) / F
ICV	"	"	1053	1805223	06/19	10,000	9998	(P) / F	(L) / F
CCV	"	10/16/18	1335	271127	11/19	50,000	50,008	(P) / F	(L) / F
CCV								P / F	L / F

Conductivity Acceptance criteria ± 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.	M.DUGAN	10/16/18	1101	180884	02/20	7.0	24.5	7.0	-11.1	(P) / F	(L) / F
Calibr.	"	"	1103	183218	07/20	4.010	24.7	4.0	162.6	(P) / F	(L) / F
Calibr.	"	"	1105	183381	05/20	10.013	24.65	10.0	-187.0	(P) / F	(L) / F
ICV	"	"	1107	183218	07/20	4.010	24.7	3.98	163.4	(P) / F	(L) / F
CCV	"	10/16/18	1345	183381	05/20	10.013	24.74	10.11	-191.3	(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 10 175.9, slope from 4 to 7 173.7 (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: ____ 09/20/18
If **NO**, what will be used? (circle one) **Secchi Disk Line / Sonar** Unique ID: Depth Blue Date of last verification: ~~10/11/2018~~

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						P / F	L / F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria ± 5 % or ± 0.05m, whichever is greater.

COMMENTS: