

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: KEE5

RQ: 2018-08-27-23

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 6/19/18

DO	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
DEP SOP FT 1500												
Calibr.	<u>Gray Sargent</u>	<u>9/17/18</u>	<u>930</u>	<u>23.2</u>	<u>760</u>	<u>8.95</u>	<u>8.55</u>	<u>100</u>	<u>63.5</u>		<u>P</u> F	<u>L</u> F
ICV	<u>"</u>	<u>"</u>	<u>932</u>	<u>23.0</u>	<u>760</u>	<u>8.58</u>	<u>8.59</u>	<u>100.1</u>	<u>63.5</u>		<u>P</u> F	<u>L</u> F
CCV	<u>STCZ before</u>	<u>9/17/18</u>	<u>1426</u>	<u>25.77</u>	<u>760</u>	<u>8.14</u>	<u>8.15</u>	<u>100.0</u>	<u>63.5</u>		<u>P</u> F	<u>L</u> 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.	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard μ mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
FT 1200									
Calibr.	<u>Gray Sargent</u>	<u>9/17/18</u>	<u>935</u>	<u>180522A</u>	<u>06/19</u>	<u>1000</u>	<u>1002</u>	<u>P</u> F	<u>L</u> F
ICV	<u>"</u>	<u>"</u>	<u>937</u>	<u>180522C</u>	<u>06/19</u>	<u>100</u>	<u>100</u>	<u>P</u> F	<u>L</u> F
CCV	<u>STCZ before</u>	<u>9/17/18</u>	<u>1421</u>	<u>180522B</u>	<u>06/19</u>	<u>10.00</u>	<u>10.02</u>	<u>P</u> F	<u>L</u> F
CCV								P / F	L / F

Conductivity Acceptance criteria $\pm 5\%$

pH	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
DEP SOP FT 1100											
Calibr.	<u>Gray Sargent</u>	<u>9/17/18</u>	<u>940</u>	<u>180084</u>	<u>2/20</u>	<u>6.997</u>	<u>25.0</u>	<u>7.0</u>	<u>-8.6</u>	<u>P</u> F	<u>L</u> F
Calibr.		<u>9/17/18</u>	<u>945</u>	<u>183218</u>	<u>7/20</u>	<u>4.01</u>	<u>25.3</u>	<u>4.9</u>	<u>165.0</u>	<u>P</u> F	<u>L</u> F
Calibr.		<u>9/17/18</u>	<u>950</u>	<u>181282</u>	<u>5/29</u>	<u>10.01</u>	<u>25.4</u>	<u>10.0</u>	<u>184.8</u>	<u>P</u> F	<u>L</u> F
ICV		<u>9/17/18</u>	<u>955</u>	<u>183218</u>	<u>7/20</u>	<u>4.0</u>	<u>25.1</u>	<u>4.02</u>	<u>165.0</u>	<u>P</u> F	<u>L</u> F
CCV	<u>STCZ before</u>	<u>9/17/18</u>	<u>1425</u>	<u>181282</u>	<u>5/29</u>	<u>14.4</u>	<u>24.92</u>	<u>10.1</u>	<u>-170.1</u>	<u>P</u> F	<u>L</u> 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 _____, slope from 4 to 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: _____
 If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: Deeper Blue Date of last verification: 8/24/18

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 $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS: