

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: SCUD Bucket

RQ: 2022-04-25-22

Project: lake marian
ITAB

- 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 6/1/22

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.	Terry Riordan	6/2/22	0208	23.6	752.1	8.4	8.39	99.0	/	1.039	P/F	L/F
ICV			0209	23.6	752.4	8.4	8.40	99.0	/	/	P/F	L/F
CCV	Terry Riordan		1444	23.5	751.2	8.4	8.46	99.5	/	/	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.	Terry Riordan	6/2/22	0720	1103983	2/23	10,000	10,000	P/F	L/F
ICV			0722	2112E28	12/23	100	97.7	P/F	L/F
CCV	Terry Riordan		1446	2112E28	12/23	100	98.8	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.	Terry Riordan	6/2/22	0740	210792	2/23	7.00	23.6	7.00	-35.3	P/F	L/F
Calibr.			0742	206704	11/22	4.00	23.8	4.00	139.8	P/F	L/F
Calibr.			0744	207370	3/23	10.01	24.0	10.01	-211.6	P/F	L/F
ICV			0746	207370	3/23	10.01	24.0	10.01	-211.5	P/F	L/F
CCV	Terry Riordan		1448	206704	11/22	4.00	23.6	4.06	136.0	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 10 176.3, slope from 4 to 7 175.1 (both must be between 165 and 180 mV) 6/1/22

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project) 6/1/22

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification: 6/1/22 5/31/22 vs 6/1/22

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: Crusty; Date of last verification: 6/1/22

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	Terry Riordan	6/2/22	0746	0.272	0.272	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:

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

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Meter ID: CRAW PADDY

RQ- 2022-05-09-23

Project: HAB

- 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 6/1/22

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.	Terry Riordan	6/2/22	0656	23.8	752.1	8.4	8.37	99.0	/	0.948	P/F	L/F
ICV			0657	23.8	752.3	8.4	8.36	99.0	/		P/F	L/F
CCV	Terry Riordan		1454	23.5	751.	8.4	8.55	100.5	/		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.	Terry Riordan	6/2/22	0710	1103983	2/23	10,000	10,000	P/F	L/F
ICV			0713	2112 E28	12/23	100	98.7	P/F	L/F
CCV	Terry Riordan		1456	2112 E28	12/23	100	99.3	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.	Terry Riordan	6/2/22	0727	210792	2/23	7.00	23.4	7.00	-24.5	P/F	L/F
Calibr.			0731	206704	11/22	4.00	23.7	4.00	151.8	P/F	L/F
Calibr.			0734	207370	3/23	10.01	23.9	10.01	-201.1	P/F	L/F
ICV			0735	207370	3/23	10.01	24.0	10.02	-206.7	P/F	L/F
CCV	Terry Riordan		1458	206704	11/22	4.00	23.6	4.07	147.8	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 10 176.6, slope from 4 to 7 176.3 (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: 6/1/22 vs 6/1/22

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: Knothead; Date of last verification: 5/31/22

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	Terry Riordan	6/2/22	0735	0.272	0.272	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: