

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: DESI

RQ: 2023-09-04-56

Project: Hastings

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 5/23/23

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.	K-Halbert	9/7/23	755	22.2	758.8	8.7	—	99.8	—	1.017	(P) F	(L) F
ICV	K-Halbert	9/7/23	758	22.1	758.8	8.7	8.71	99.8	—	1.017	(P) F	(L) F
CCV	K-Halbert	9/7/23	1449	23.0	757.7	8.5	8.47	98.9	—	1.017	(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.	K-Halbert	9/7/23	759	230612B	06/2024	1000	1000	(P) F	(L) F
ICV	K-Halbert	9/7/23	802	221028B	11/2023	1413	1425	(P) F	(L) F
CCV	K-Halbert	9/7/23	1453	230131D	02/2024	15000	15134	(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.	K-Halbert	9/7/23	803	M241-15	9/1/24	7.01	22.9	7.01	-35.3	(P) F	(L) F
Calibr.	K-Halbert	9/7/23	806	M221-22	8/10/24	4.00	22.8	4.00	141.9	(P) F	(L) F
Calibr.	K-Halbert	9/7/23	808	M334-14 M202-05	11/29/24 7/27/24	10.03	22.4	10.03	203.7	(P) F	(L) F
ICV	K-Halbert	9/7/23	809	M221-22	8/10/24	4.00	22.7	3.98	143.3	(P) F	(L) F
CCV	K-Halbert	9/7/23	1454	M334-14	11/29/24	10.03	22.5	10.00	203.5	(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 10 168.4, slope from 4 to 7 177.2 (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: 5/30/23

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	K-Halbert	9/7/23	811	0.000	0.000	(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: