

RQ-2016-02-29-20

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

Boldly "X" this box if there is qualified data on this page.

Meter ID:

AE3

Project:

ZURN 1002 / Smp

Notes: (1) Numbers ≤ 4 , are rounded down; numbers ≥ 5 are rounded up (e.g., 5.15 becomes 5.2).

(2) Always wait for meter to stabilize before recording any readings.

(3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Circle/Fill In: Lab Calibration or Calibration/Verification on Site

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

12/15/15 1/15/16 TV

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Brewster	03/01/16	725	19.6	9.2	9.2	100	47	21.2	P	L
ICV	"	"	727	19.6	9.2	9.2	100			P	L
CCV	Hurley		1560	21.5	8.8	8.8	100			P	L
CCV											

Report DO mg/L with one decimal figure and DO % saturation as a whole number with no decimals.

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; 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 $\mu\text{mhos/cm}$	Meter Reading $\mu\text{mhos/cm}$	Pass / Fail	Lab / Field
Calibr.	Brewster	03/01/16	728	150929	10/16	1000	1000	P	L
ICV	"	"	734	260533	12/17	100	100	P	L
CCV	Hurley		1560	156929	10/16	1000	1006	P	L
CCV									

Report specific conductance as a whole number with no decimal figure.

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1400	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Brewster	03/01/16	729	1561651	10/17	7.0	7.0	-19	P	L
Calibr.	"	"	730	153225	5/17	4.0	4.0	155	P	L
Calibr.	"	"	731	149101	1/17	10.0	10.0	-193	P	L
ICV	"	"	733	149101	1/17	10.0	10.0		P	L
CCV	Hurley		1560	153225	5/17	4.0	4.1		P	L
CCV										

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU;

mV pH7 Range 0 ± 50 ;

mV pH 4 Range $+180 \pm 50$;

mV pH 10 Range -180 ± 50 ;

Slope from 7 to 10 and 4 to 7 must be between 165 and 180 mV

Depth (Quarterly)

Date of Last Depth Verification

1/15/16

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air	Brewster	03/01/16	736	0.000	0.000	P	L

ICV acceptance criteria $\pm 5\%$ or $\pm 0.05\text{m}$, whichever is greater

3/1/16

RQ-2016-02-29-21

Boldly "X" this box if there is qualified data on this name.

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

Meter ID: Lil GusProject: SMP-green

- Notes: (1) Numbers ≤ 4 , are rounded down; numbers ≥ 5 are rounded up (e.g., 5.15 becomes 5.2).
 (2) Always wait for meter to stabilize before recording any readings.
 (3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Circle/Fill In: Lab Calibration or Calibration/Verification on SiteTemperature (Quarterly) FT 1400Date of Last Temperature Verification 12/15/15

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Jordan Skaggs	3/1/16	7:40	20.5	9.0	9.0	100	48.2	1.2	P	L
ICV	"	"	"	20.6	9.0	9.0	100	48.2	—	P	L
CCV	"	"	1800	18.0	8.9	9.0	102	51.2	—	P	L
CCV	"	"	5:21	21.0							

Report DO mg/L with one decimal figure and DO % saturation as a whole number with no decimals.

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; 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.	Jordan Skaggs	3/1/16	7:50	150529	10/16	1K	1K	P	L
ICV	"	4	"	2601533	12/17	100	103	P	L
CCV	"	"	1800	2504601	9/16	1K	1015	P	L
CCV	"	"	"	"	"	"	"	"	"

Report specific conductance as a whole number with no decimal figure.

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1400	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Meter Reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Jordan Skaggs	3/1/16	8:00	150812	3/17	7.0	7.0	-29	P	L
Calibr.	"	"	"	153225	5/17	4.0	4.0	148	P	L
Calibr.	"	"	"	149101	1/17	10.0	10.0	-206	P	L
ICV	"	"	"	"	"	10.0	10.0	—	P	L
CCV	"	4	"	153225	5/17	4.0	4.1	—	P	L
CCV	"	"	"	"	"	"	"	"	"	"

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU; mV pH7 Range 0 ± 50 ;mV pH 4 Range $+180 \pm 50$;mV pH 10 Range -180 ± 50 ;

Slope from 7 to 10 and 4 to 7 must be between 165 and 180 mV

Depth (Quarterly)Date of Last Depth Verification 2-25-16

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air	Jordan Skaggs	3/1/16	8:10	0.000	0.000	P	L

ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater