

RR 2016-06-06-45

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: **A E 3**

Project: **Trend 1606**

- 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 **4/7**

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.	Janes P. Hys	6/6	7:30	23.6	8.5	8.5	100.0	41.0	1.06	P	L
ICV	" "	" "	7:32	23.6	8.5	8.5	100.0	41.0	—	P	L
CCV	Janes P. Hys	6/6	17:35	23.6	8.5	8.5	99.7	41.0	—	P	L
CCV							100				

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 umhos/cm	Meter Reading umhos/cm	Pass / Fail	Lab / Field
Calibr.	Janes P. Hys	6/6	7:38	260202	02/18	1000	1000	P	L
ICV	" "	" "	7:37	260302	3/18	100	104	P	L
CCV	Janes P. Hys	6/6	17:37	260202	2/18	1000	995	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.	Janes P. Hys	6/6	7:38	156651	10/17	7.0	7.0	-23.6	P	L
Calibr.	" "	" "	7:40	158982	01/18	4.0	4.0	153.3	P	L
Calibr.	" "	" "	7:42	156700	10/17	10.0	10.0	-200.5	P	L
ICV	" "	" "	7:43	156700	10/17	10.0	10.0	-199.8	P	L
CCV	Janes P. Hys	6/6	17:39	158982	1/18	4.0	4.1	144.2	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 **4/7**

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air	Janes P. Hys	6/6	7:45	0.000	0.000	P	L

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

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

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Meter ID:

L11Gus

Project:

2016-06-06-43

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

3/14/10

DO DEP SOP FT 1500	Name	Date	Time GT-ET	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Brewster	6/6/10	8:00	24.5	8.3	8.3	100	57.4	1.1	P	L
ICV	"	6/6/10	8:05	24.6	8.3	8.3	100			P	L
CCV	Mustard	6/6/10	16:00	25.2	8.1	7.8	96	54.3		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 GT-ET	Lot #	Expir. Date	Standard $\mu\text{mhos/cm}$	Meter Reading $\mu\text{mhos/cm}$	Pass / Fail	Lab / Field
Calibr.	Brewster	6/6/10	8:07	2602002	2/18	1000	1000	P	L
ICV	"	"	8:10	2603002	2/18	100	98	P	L
CCV	Mustard	6/6/10	16:00	2602002	2/18	1000	996	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 GT-ET	Lot #	Expir. Date	pH Buffer SU	Meter Reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Brewster	6/6/10	8:13	1566051	10/17	7.0	7.0	-34	P	L
Calibr.	"	"	8:14	158882	11/18	4.0	4.0	145	P	L
Calibr.	"	"	8:16	156700	11/17	10.0	10.0	-214	P	L
ICV	"	"	8:17	"	"	10.0	10.0		P	L
CCV	Mustard	6/6/10	16:00	158985	1/18	4.0	4.1	132	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

3/8/10

Depth Sensor (Daily)	Name	Date	Time GT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air	Brewster	6/6/10	8:20	0.000	0.000	P	L

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