

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 name.

Meter ID:

A

Project:

SMP: Ph. II: P. C. & Ell. gaw Bay

- 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

4-28-16

DO DEP SOP FT 1500	Name	Date	Time (ET)	Temp. (°C)	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Danny Berger	5-31-16	0720	23.5	8.5	8.5	100	72		☒ F ☐ L	☐ F ☒ L
ICV	" "	" "	0721	23.5	8.5	8.4	99	72	1.03	☒ F ☐ L	☐ F ☒ L
CCV	" "	" "	1509	24.7	8.3	8.3	100			☒ F ☐ L	☐ F ☒ L
CCV										P F	L F

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 (ET)	Lot #	Expir. Date	Standard μ mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	Danny Berger	5-31-16	0723	160418A	4-17	1000	1000	☒ F ☐ L	☐ F ☒ L
ICV	" "	" "	0724	" "	" "	1000	1001	☒ F ☐ L	☐ F ☒ L
CCV	" "	" "	1513	150327	11-17	50,000	49560	☒ F ☐ L	☐ F ☒ L
CCV				2511C38				P F	L F

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

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time (ET)	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Danny Berger	5-31-16	0726	150724C	2-17	7.0	7.0	-58	☒ F ☐ L	☐ F ☒ L
Calibr.	" "	" "	0727	160222B	3-17	4.0	4.0	109	☒ F ☐ L	☐ F ☒ L
Calibr.	" "	" "	0728	150521B	12-16	10.0	10.0	-229	☒ F ☐ L	☐ F ☒ L
ICV	" "	" "	0729	" "	" "	10.0	10.0	-226	☒ F ☐ L	☐ F ☒ L
CCV	" "	" "	1511	160222B	3-17	4.0	4.0	106	☒ F ☐ L	☐ F ☒ L
CCV									P F	L F

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU; mV pH7 Range 0 $\pm$ 50;
 mV pH 10 Range -180 $\pm$ 50; Slope from 7 to 10 and 4 to 7 must be between 165 and 180 mV

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

Depth (Quarterly)

Date of Last Depth Verification

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air				0.000			

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

Notes:

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 name.

Meter ID:

7

Project:

Cumby + Platt Branch

- 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

3/17/16

DO DEP SOP FT 1500	Name	Date	Time (ET)	Temp. (°C)	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Kaitlin DeArth	5/31/16	0707	23.9	8.43	8.43	100.0	54.3		P F	L F
ICV	"	"	0710	23.8	8.45	8.44	99.9	54.3		P F	L F
CCV	Kaitlin DeArth	5/31/16	1440	24.4	8.35	8.23	99.9	55.3		P F	L F
CCV										P F	L F

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 (ET)	Lot #	Expir. Date	Standard μ mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	Kaitlin DeArth	5/31/16	0713	160418A	4/17	1,000	1,000	P F	L F
ICV	"	"	0715	150915E	9/16	500	512	P F	L F
CCV	Kaitlin DeArth	5/31/16	1442	160318	9/16	100	104	P F	L F
CCV								P F	L F

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

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time (ET)	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Kaitlin DeArth	5/31/16	0715	160222A	9/17	7.0	7.0	-11.1	P F	L F
Calibr.	"	"	0716	161523	3/18	4.0	4.0	162.4	P F	L F
Calibr.	"	"	0717	160126	2/18	10.0	10.0	-178.1	P F	L F
ICV	"	"	0720	160126	2/18	10.0	10.0	-178.2	P F	L F
CCV	Kaitlin DeArth	5/31/16	1445	161523	3/18	4.0	4.1	160.3	P F	L F
CCV									P F	L F

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

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

mV pH 10 Range -180 $\pm$ 50;

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

Depth (Quarterly)

Date of Last Depth Verification

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air				0.000			

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

Notes: RQ-2016-05-02-09, RQ-2016-05-02-08