

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:

5

Project:

SMP=Platt + Cowbone

Airboat

- 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

1/4/16

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.	Chris Lutz	2/3/16	7:15	23.7	8.4	8.5	100.4	47.1		P F	G F
ICV	"	"	7:17	23.5	8.5	8.6	100.7	47.1		P F	G F
CCV	"	"	1430	24.7	8.3	8.3	99.9	46.1		P F	DL 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.	Chris Lutz	2/3/16	9:19	150915D	9/16	1000	999	P F	G F
ICV	"	"	7:21	150915D	9/16	1000	998	P F	G F
CCV	"	"	1432	150915C	3/16	100	103	P F	G 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.	Chris Lutz	2/3/16	7:23	156244	6/17	7.0	7.0	-240.0	P F	G F
Calibr.	"	"	7:25	150915A	9/16	4.0	4.0	123.5	P F	G F
Calibr.	"	"	7:27	150915D	3/17	10.0	10.0	-210.0	P F	GL F
ICV	"	"	7:29	150915A	9/16	4.0	4.0	126.2	P F	D F
CCV	"	"	1435	150915B	3/17	10.0	9.9	-204.9	P F	G F
CCV									P F	L F

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

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

RQ-2016-02-01-82



G4SD020316-99

Field ID

Notes: WBID 32011

Platt Branch at CR
731

26010704FTM

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

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: BProject: 5 mp Highlands Brook

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

1/28/2016 HP

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.	Chris Link	2/1/16	7:27	24.7	8.3	8.3	99.9	40.0		(P) F	(P) F
ICV	"	"	7:29	24.8	8.3	8.3	100.0	40.0		(P) F	(P) F
CCV	"	"	18:01	23.5	8.5	8.5	99	39		(P) F	(P) 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.	Chris Link	2/1/16	7:31	1507240	8/16	500	500	(P) F	(P) F
ICV	"	2/1/16	7:33	1507240	8/16	500	500	(P) F	(P) F
CCV	"	"	18:03	150915C	3/16	200	102	(P) F	(P) 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.	Chris Link	2/1/16	7:35	156244	10/17	7.0	7.0	-15.6	(P) F	(P) F
Calibr.	"	"	7:37	150915A	9/16	4.0	4.0	-161.3	(P) F	(P) F
Calibr.	"	"	7:39	150915B	3/17	10.0	9.9	-182.0	(P) F	(P) F
ICV	"	"	7:41	150915B	3/17	6.0	10.0	-143.7	(P) F	(P) F
CCV	"	"	18:05	150915A	9/16	4.0	4.1	-149.7	(P) F	(P) F
CCV									P F	L F

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

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:

Field Meter Calibration Log

Meter ID: VSI 650 multi probe

	Date	2-3-16	2-11-16	2-17-16	2-23-16	1
AM						
pH 4.00		4.	4.	3.87	4.00	
pH 7.00		7.	7.	6.85	7.00	
pH 10.00		10.	10.	9.81	10.00	
Cond 147						
Cond 717.5						
Cond 1413						
@ Temp						
DO %		100.7	100.8	100.4	99.8	99.5
DO @ Temp		23.55	18.09	20.61	22.74	24.07
PM						
pH _____		4/7/10	4/7/10	3.75/678/9.7	4/7/10	4/7/10
Cond _____		—	—	—	—	—
DO% @ Temp		99.9 / 2485	100.8 / 2483	100.4 / 23.44	99.5 / 247	
Batteries		1/2	1/2	1/2	1/2	
Comments						
User		J.D.F.	J.D.F.	J.D.F.	J.D.F.	