

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

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

Meter ID:

118154

Project:

Alachua Lakes

RD - 2016-04-18-15

- 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 Lab

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification 4/2016

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 /	Lab /
Calibr.	J. Grentzel	4/19/16	0725	22.00	8.74	8.73	100.0	57.4	0.83314	P	L
ICV	J. Grentzel	4/19/16	0727	22.10	8.73	8.72	99.9	57.4	0.83314	P	L
CCV	J. Grentzel	4/19/16	1731	24.59	8.33	8.21	98.7	58.4	0.83314	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.	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard μ mhos/cm	Meter Reading μ mhos/cm	Pass /	Lab /
Calibr.	J. Grentzel	4/19/16	0729	160216A	2/2017	1000	999	P	L
ICV	J. Grentzel	4/19/16	0733	150701A	7/2016	100	102	P	L
CCV	J. Grentzel	4/19/16	1735	150217B	8/2016	100	103	P	L
CCV	J. Grentzel	4/19/16	1738	160216A	2/2017	1000	996	P	L

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

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass /	Lab /
Calibr.	J. Grentzel	4/19/16	0738	2509677	8/2017	7.0	6.94	-53.4	P	L
Calibr.	J. Grentzel	4/19/16	0742	2509674	9/2017	4.0	3.97	128.8	P	L
Calibr.	J. Grentzel	4/19/16	0747	2506675	11/16	10.0	9.97	-223.8	P	L
ICV	J. Grentzel	4/19/16	0748	2506675	11/16	10.0	9.98	-224.0	P	L
CCV	J. Grentzel	4/19/16	1745	2509674	9/2017	4.0	4.03	124.8	P	L
CCV	J. Grentzel	4/19/16	1747	2510488	4/2017	10.0	9.99	-224.7	P	L

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 m

Depth (Quarterly)

Date of Last Depth Verification 4/2016

Depth Sensor	Name	Date	Time	Zero the Sensor	ICV Value	Pass /	Lab /
Pressure mode in air	J. Grentzel	4/19/16	0754	0.000	0.001	P	L

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

Meter ID:

VSI 556 #1

Project:

UEC South

RQ-2016-04-18-08

- 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

L-6

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

4/16

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp	D.O. Chart mV/l	Meter D.O. mV/l	% DO	Probe Charge	Probe Gain	Pass /	Lab /
Calibr.	B Davis	4/19	853	23.17	8.54	8.54	100%	—	—	P	L
ICV	↓	↓	853	23.19	8.54	8.54	99.9	—	—	P	L
CCV	Kalmbacher	4/19	1600	24.0	8.41	8.41	99.9	—	—	P	L
CCV											

DO

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

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.	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard μ mhos/cm	Meter Reading μ mhos/cm	Pass /	Lab /
Cond.									
Calibr.	B Davis	4/19	759	05151413	6/16	1413	1413	P	L
ICV	↓	↓	800	1602164	2/17	991	991	P	L
CCV	Kalmbacher	4/19	1610	1602164	2/17	1000	1019	P	L
CCV									

Report specific conductance as a whole number with no decimal figure. Conductivity Acceptance criteria $\pm 5\%$

pH	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer	Meter reading SU	mV	Pass /	Lab /
DEP SOP		4/19								
Calibr.	B Davis	803	803	2509677	8/17	7.0	7.0		P	L
Calibr.	↓	↓	805	2509674	9/17	4.0	4.0		P	L
Calibr.	↓	↓	809	2560A88	4/17	10.0	10.0		P	L
ICV	↓	↓	814	2509677	8/17	7.0	7.02		P	L
CCV	Kalmbacher	4/19	1610	2509677	8/17	7.0	7.06		P	L
CCV										

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 m

Depth (Quarterly)

Date of Last Depth Verification

Depth Sensor	Name	Date	Time	Zero the Sensor	ICV Value	Pass /	Lab /
Pressure mode in air				0.000			

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

Meter ID:

Quanta 143734

Project:

SUWANNEE SCI

RQ 2016-07-11-12

- 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: ☒ Calibration or Calibration/Verification on Site LAB Calibration

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification 04-2016

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 /	Lab /
Calibr.	PO'Connor	04/19/16	0700	22.6	8.64	—	100.0	—	—	Pass	LAD
ICV	↓	↓	0712	22.6	8.64	8.62	100.0	—	—	Pass	LAD
CCV	PO'Connor	04/19/16	1620	23.0	8.57	8.61	101.4	—	—	Pass	LAD
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.	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard μ hos/cm	Meter Reading μ hos/cm	Pass /	Lab /
Cond.									
Calibr.	PO'Connor	04-19-16	0715	160216A	02/2017	1000	1000	Pass	LAD
ICV	↓	↓	0717	↓	↓	↓	1009	Pass	LAD
CCV	PO'Connor	04/19/16	1621	160216B	08/2016	100	101	Pass	LAD
CCV									

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

Conductivity Acceptance criteria $\pm 5\%$

pH	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer	Meter reading	mV	Pass /	Lab /
DEP SOP										
Calibr.	PO'Connor	04/19/16	0724	2509677	08/2017	7.0	7.00	—	Pass	LAD
Calibr.	↓	↓	0726	2509F74	09/2017	4.0	4.00	—	Pass	LAD
Calibr. ICV	↓	↓	0728	2509677	08/2017	7.0	7.01	—	Pass	LAD
ICV	PO'Connor	04/19/16	1625	2509F74	09/2017	4.0	4.07	—	Pass	LAD
CCV										
CCV										

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 m

Depth (Quarterly)

Date of Last Depth Verification

Depth Sensor	Name	Date	Time	Zero the Sensor	ICV Value	Pass /	Lab /
Pressure mode in air	N/A			0.000			

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