

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 QUANTA 4 RQ- 2016-08-29-08 Project NASSAW MID + W

- 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 03/04/2016

DO FDEP 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.	PO Com	08/30/16	0733	23.6	8.48	8.47	100.0	—	—	Pass	LAD
ICV	✓	08/30/16	0738	23.6	8.48	8.46	100.0	—	—	Pass	LAD
CCV	Kalmbacher	08/30/16	1430	24.3	8.57	8.31	99.2	—	—	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. Cond. FT 1200	Name	Date	Time CT-ET	Lot #	Exp. Date	Standard μ mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	PO Com	08/30/16	0740	160616A	06/2017	1000	1000	Pass	LAD
ICV	✓	✓	0743	151113A	11/2016	100	99	Pass	LAD
CCV	PO Com	08/30/16	1432	160616A	06/2017	1000	995	Pass	LAD
CCV									

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

Conductivity Acceptance criteria $\pm 5\%$

pH FDEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Exp. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	PO Com	08/30/16	0745	260604	06/2018	7.0	7.00	—	Pass	LAD
Calibr.	✓	✓	0800	2602556	01/2018	4.0	4.00	—	Pass	LAD
Calibr.	PO Com	08/30/16	0802	2510A88	04/2017	10.0	9.86	—	Pass	LAD
ICV	PO Com	08/30/16	1435	2602253	01/2018	4.0	4.07	—	Pass	LAD
CCV	✓	✓	1457	260604	06/2018	7.0	7.01	—	Pass	LAD
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 mV

Depth (Quarterly)

Date of Last Depth Verification N/A

Depth (FDEP)	Name	Date	Time CT-ET	Zero the Sensor	ICV	Pass / Fail	Lab / Field
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)

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Meter **VSI #3** RQ- **2016-08-24-14** Project **Sunshine Springs**

- 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 **02/04/2016 7/2016**

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 / Fail	Lab / Field
Calibr.	J Punn	8/30/16	714	22.8	8.61	8.61	100	57.4	0.908	P	L
ICV	J	8/30/16	718	22.85	8.61	8.54	99.4	57.4	0.903	P	L
CCV	B Paris	8/30/16	1450	24.75	8.31	8.23	99.1	57.4	0.903	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 μ mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	J Punn	8/30/16	720	160616A	6/17	1000	997	P	
ICV	B Paris	8/30/16	1451	157113A	11/16	100	102	P	
CCV									
CCV									

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

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	J Punn	8/30/16	724	2606E04	6/2018	7.0	7.08	-7.0	P	L
Calibr.						4.0				
Calibr.						10.0				
ICV										
CCV	B Paris	8/30/16	1452	2570A88	4/17	10.0	9.99	-189.4	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 _____

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air	J Punn	8/30/16	725	0.000	0.001	P	

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