

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 Hydro Quality RQ- 2016-07-25-04 Project SLW 3

- 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

7/2 / 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 Pan	7/27/16	725	23.4	8.51	8.51	100	—	—	P	
ICV	J	727	727	23.4	8.51	8.51	100	—	—	P	
CCV	J Pan	7/27/16	1435	24.2	8.39	8.28	99.0	—	—	P	
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 Pan	7/27/16	728	162616A	6/17	1000	1000	P	
ICV	J	729	729	15113A	11/16	1000	1000	P	
CCV	J Pan	7/27/16	1426	05151413	10/16	1413	1427	P	
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 Pan	7/27/16	730	2510A81	10/17	7.0	7.0	—	P	
Calibr.	J	732	732	2602556	1/18	4.0	4.0	—	P	
Calibr.	J	735	735	2510A58	4/17	10.0	9.88	—	P	
ICV	J	7/27/16	1430	2602556	1/18	4.0	4.12	—	P	
CCV										
CCV										

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU;
 +180 $\pm$ 50; mV pH 10 Range -180 $\pm$ 50;
 and 180mV

mV pH7 Range 0 $\pm$ 50;

mV pH 4 Range

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

Depth (Quarterly)

Date of Last Depth Verification

7/2 / 2016

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

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

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Meter YSI #3 RQ- 2016-07-25-05 Project Sevier Lake Sprinklers

- 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 7/1 / 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.	<u>B Davis</u>	<u>7/27/16</u>	<u>7:35</u>	<u>23.50</u>	<u>8.49</u>	<u>8.49</u>	<u>100</u>	<u>/</u>	<u>/</u>	<u>P</u>	<u>L</u>
ICV	<u>B Davis</u>	<u>7/27/16</u>	<u>7:35</u>	<u>23.60</u>	<u>8.48</u>	<u>8.45</u>	<u>99.7</u>	<u>48.2</u>	<u>0.91391</u>	<u>P</u>	<u>L</u>
CCV	<u>↓</u>	<u>7/27/16</u>	<u>15:19</u>	<u>24.57</u>	<u>8.32</u>	<u>8.30</u>	<u>99.8</u>	<u>47.1</u>	<u>0.91391</u>	<u>P</u>	<u>L</u>
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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.		<u>7/25/16</u>							
ICV	<u>B Davis</u>	<u>7/27/16</u>	<u>7:37</u>	<u>160616A</u>	<u>6/17</u>	<u>1000</u>	<u>998</u>	<u>P</u>	<u>L</u>
CCV	<u>↓</u>	<u>7/27/16</u>	<u>15:20</u>	<u>151113A</u>	<u>11/16</u>	<u>100</u>	<u>101</u>	<u>P</u>	<u>L</u>
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 #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.		<u>7/25/16</u>				<u>7.0</u>				
Calibr.		<u>7/25/16</u>				<u>4.0</u>				
Calibr.		<u>7/25/16</u>				<u>10.0</u>				
ICV	<u>B Davis</u>	<u>7/27/16</u>	<u>7:40</u>	<u>2510A81</u>	<u>10/17</u>	<u>7.0</u>	<u>7.04</u>	<u>-11.5</u>	<u>P</u>	<u>L</u>
CCV	<u>↓</u>	<u>7/27/16</u>	<u>15:22</u>	<u>2602556</u>	<u>1/18</u>	<u>4.0</u>	<u>4.00</u>	<u>167.5</u>	<u>P</u>	<u>L</u>
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 180mV

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				<u>0.000</u>			

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