

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

Boldly "X" this box if there are qualified data on this page.

Meter ID: Arva

RQ:

Project:

Notes: (1) Always wait for meter to stabilize before recording any readings.

(2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).

(3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp °C	Baro-meter mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Kristene Taylor	01/27	8:40	20.2	754	9.0	9.0	99.2	✓	1.03	P / F	L / F
ICV	"	"	8:41	20.3	754	9.0	9.0	99.6	✓	1.03	P / F	L / F
CCV											P / F	L / F
CCV											P / F	L / F

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 (Pro DSS 0.75 to 1.50); 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.	Kristene Taylor	01/27	8:43	2904947	03/21	1000	1000	P / F	L / F
ICV	"	"	8:44	2908081	08/21	100	100	P / F	L / F
CCV								P / F	L / F
CCV								P / F	L / F

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Kristene Taylor	01/27	8:47	193864	06/21	7.	20.5	7.02	72.4	P / F	L / F
Calibr.	"	"	8:49	193247	05/21	4.	21.0	4.00	166.1	P / F	L / F
Calibr.	"	"	8:52	192995	05/21	10.	21.04	10.04	-189.8	P / F	L / F
ICV	"	"	8:53	192995	05/21	10	21.2	10.03	-189	P / F	L / F
CCV										P / F	L / F
CCV										P / F	L / F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50 ;

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

mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 , slope from 4 to 7 (both must be between 165 and 180 mV)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification:

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: ; Date of last verification:

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value, meters	Pass / Fail	Lab / Field
Pressure mode in air	Kristene Taylor	01/27	8:54	0.00	0.00	P / F	L / F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS:

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

Boldly "X" this box if there are qualified data on this page.

Meter ID:

Arya

RQ:

Project:

Notes: (1) Always wait for meter to stabilize before recording any readings.

(2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).

(3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification 01/30/20

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp °C	Baro-meter mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Kristene Taylor	02/06/20	9:10	22.5	753	8.6	8.57	99.1	/	1.03	P / F	L / F
ICV	"	"	9:11	22.7	753	8.6	8.56	99.3	/	1.03	P / F	L / F
CCV	Drew Liddick	02/24/20	1530	23.3	756	8.5	8.4	98.9	/		P / F	L / F
CCV											P / F	L / F

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 (Pro DSS 0.75 to 1.50); 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.	Kristene Taylor	02/06/20	9:14	2904947	03/21	1000	1000	P / F	L / F
ICV	"	"	9:15	2908081	08/21	100	99.7	P / F	L / F
CCV	Drew Liddick	02/24/20	1534	2904947	03/21	1000	1000	P / F	L / F
CCV								P / F	L / F

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Kristene Taylor	02/06/20	9:18	193864	06/21	7.01	23.1	7.01	-14.9	P / F	L / F
Calibr.	"	"	9:20	193247	05/21	4.00	22.9	4.00	165.9	P / F	L / F
Calibr.	"	"	9:22	192995	05/21	10.03	22.9	10.03	-191.2	P / F	L / F
ICV	"	"	9:23	192995	05/21	10	22.8	10.00	-190.4	P / F	L / F
CCV	Drew Liddick	02/24/20	1536	193247	05/21	4.0	22.8	4.11	157.2	P / F	L / F
CCV										P / F	L / F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50 ; mV pH 4 Range $+180 \pm 50$; mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 _____, slope from 4 to 7 _____ (both must be between 165 and 180 mV)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification: 01/30/20

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: _____; Date of last verification: _____

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value, meters	Pass / Fail	Lab / Field
Pressure mode in air	Kristene Taylor	02/06/20	9:25	0.00	0.00	P / F	L / F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS:

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

Boldly "X" this box if there are qualified data on this page.

Meter ID:

Arya

RQ:

Project:

Notes: (1) Always wait for meter to stabilize before recording any readings.

(2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).

(3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

01/30/20

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp °C	Baro-meter mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Kristene Taylor	03/02/20	8:44	20.3	760	9.0	9.04	100	—	1.02	P/F	L/F
ICV	"	"	8:45	20.3	760	9.0	9.05	100	—	1.02	P/F	L/F
CCV											P/F	L/F
CCV											P/F	L/F

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 (Pro DSS 0.75 to 1.50); 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.	Kristene Taylor	03/02/20	8:49			1000	1000	P/F	L/F
ICV	"	"	8:50			100	100	P/F	L/F
CCV								P/F	L/F
CCV								P/F	L/F

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Kristene Taylor	03/02/20	8:53			7.02	19.6	7.02	-15.2	P/F	L/F
Calibr.	"	"	8:55			4.00	19.9	4.00	165	P/F	L/F
Calibr.	"	"	8:57			10.06	20.1	10.06	-192.4	P/F	L/F
ICV	"	"	8:58			10	20.1	10.05	-191.7	P/F	L/F
CCV										P/F	L/F
CCV										P/F	L/F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50 ;

mV pH 4 Range +180 ± 50 ;

mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 _____, slope from 4 to 7 _____ (both must be between 165 and 180 mV)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification: 01/30/20

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: _____; Date of last verification: _____

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value, meters	Pass / Fail	Lab / Field
Pressure mode in air	Kristene Taylor	03/02/20	9:02	0.00	0.00	P/F	L/F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS:

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

Boldly "X" this box if there are qualified data on this page.

Meter ID:

Arya

RQ-

Project:

Notes: (1) Always wait for meter to stabilize before recording any readings.

(2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).

(3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

01/30/20

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp °C	Baro-meter mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Kristene Taylor	03/11/20	8:33	22.1	760	8.7	8.74	100	—	1.03	(P) F	(L) F
ICV	"	"	8:34	22.1	760	8.7	8.74	100	—	1.03	(P) F	(L) F
CCV	Drew Liddick	11	1640	25.8	760	8.1	8.2	100	—	—	(P) F	(L) F
CCV											P / F	L / F

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 (Pro DSS 0.75 to 1.50); 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.	Kristene Taylor	03/11/20	8:39	2911829	10/21	1000	1000	(P) F	(L) F
ICV	"	"	8:40	2908081	08/21	100	100	(P) F	(L) F
CCV	Drew Liddick	11	1644	2811E60	11/20	50000	49865	(P) F	(L) F
CCV								P / F	L / F

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Kristene Taylor	03/11/20	8:42	194546	07/21	7.00	23.3	7.01	-16.7	(P) F	(L) F
Calibr.	"	"	8:44	194900	07/21	4.00	23.1	4.00	162.7	(P) F	(L) F
Calibr.	"	"	8:46	193874	06/21	10.	22.9	10.03	-196.7	(P) F	(L) F
ICV	"	"	8:47	"	"	10	22.9	10.02	-195.8	(P) F	(L) F
CCV	Drew Liddick	11	1648	194900	07/21	4.0	23.4	4.0	161.7	(P) F	(L) F
CCV										P / F	L / F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50 ;

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

mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 180, slope from 4 to 7 179.4 (both must be between 165 and 180 mV)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification: 01/30/20

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: _____; Date of last verification: _____

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value, meters	Pass / Fail	Lab / Field
Pressure mode in air	Kristene Taylor	03/11/20	8:50	0.00	0.00	(P) F	(L) F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS:

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

Boldly "X" this box if there are qualified data on this page.

Meter ID: ARYA

RQ-

Project:

- Notes: (1) Always wait for meter to stabilize before recording any readings.
 (2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).
 (3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification 1/30/20

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp °C	Baro-meter mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Alex Miranda	3/17/20	8:16	23.7	760	8.50	8.48	100.1	✓	1.04	P/F	L/F
ICV	" "	" "	8:18	23.6	760	8.50	8.49	100.1	✓	1.04	P/F	L/F
CCV	Kristene Taylor	03/17/20	16:00	25.8	760	8.25	8.21	100.8	✓	1.04	P/F	L/F
CCV						8.10					P/F	L/F

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 (Pro DSS 0.75 to 1.50); 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 mos/cm	Meter Reading μ mos/cm	Pass / Fail	Lab / Field
Calibr.	Alex Miranda	3/17/20	8:20	2911829	10/21	1000	1000	P/F	L/F
ICV	" "	" "	8:22	2908881	08/21	100	101.1	P/F	L/F
CCV	Kristene Taylor	03/17/20	16:02			50,000	49419	P/F	L/F
CCV								P/F	L/F

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Alex Miranda	3/17/20	8:24	194546	07/21	7.	23.6	7.01	-16.0	P/F	L/F
Calibr.	" "	" "	8:26	194900	02/21	4.	23.6	7.00	-16.4	P/F	L/F
Calibr.	" "	" "	8:28	193874	06/21	10.	23.8	10.02	-191.9	P/F	L/F
ICV	" "	" "	8:30	193874	06/21	10.	23.7	10.00	-191.3	P/F	L/F
CCV	Kristene Taylor	" "	16:04	" "	" "	4	23.4	7.00	-161.7	P/F	L/F
CCV										P/F	L/F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50 ;

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

mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 175.4, slope from 4 to 7 176.4 (both must be between 165 and 180 mV)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)
 If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification: 1/30/20

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: ; Date of last verification:

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value, meters	Pass / Fail	Lab / Field
Pressure mode in air	Alex Miranda	3/17/20	8:32	0.00	0.0	P/F	L/F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS:

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

Boldly "X" this box if there are qualified data on this page.

Meter ID:

RQ-

Project: SMP

- Notes: (1) Always wait for meter to stabilize before recording any readings.
 (2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).
 (3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp °C	Baro-meter mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Drew Liddick	03/18/2020	1000	23.1	762	8.6	8.6	100	—	1.04	☒ F	☒ F
ICV	//	//	1004	23.1	762	8.6	8.6	100	—	1.04	☒ F	☒ F
CCV	//	//	1444	25.6	762	8.2	8.2	100	—	—	☒ F	☒ F
CCV											P / F	L / F

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 (Pro DSS 0.75 to 1.50); 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.	Drew Liddick	03/18/2020	1006	291829	10/21	1000	1000	☒ F	☒ F
ICV	//	//	1008	292881	08/21	100	102	☒ F	☒ F
CCV	//	//	1448	2811660	11/20	50000	49865	☒ F	☒ F
CCV								P / F	L / F

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Drew Liddick	03/18/2020	1010	194546	07/21	7.0	22.7	7.0	-19.1	☒ F	☒ F
Calibr.	I	I	1012	194900	07/21	4.0	22.6	4.0	158.8	☒ F	☒ F
Calibr.	I	I	1014	193874	06/21	10.0	22.8	10.0	-196.6	☒ F	☒ F
ICV	I	I	1016	193874	06/21	10.0	22.8	10.0	-196.0	☒ F	☒ F
CCV	I	I	1450	194900	07/21	4.0	22.8	4.0	156.2	☒ F	☒ F
CCV										P / F	L / F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50 ;

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

mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 176.9, slope from 4 to 7 177.9 (both must be between 165 and 180 mV)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification:

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: ; Date of last verification:

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value, meters	Pass / Fail	Lab / Field
Pressure mode in air	Drew Liddick	03/18/2020	1018	0.00	0.00	☒ F	☒ F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS:

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

Boldly "X" this box if there are qualified data on this page.

Meter ID:

Araya

RQ-

Project:

SMP

- Notes: (1) Always wait for meter to stabilize before recording any readings.
 (2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).
 (3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp °C	Baro-meter mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	<u>Drew Liddick</u>	<u>3/30/20</u>	<u>0930</u>	<u>23.6</u>	<u>760</u>	<u>8.50</u>	<u>8.50</u>	<u>100</u>	<u>—</u>	<u>1.04</u>	<u>P/F</u>	<u>L/F</u>
ICV	<u>//</u>	<u>//</u>	<u>0934</u>	<u>23.7</u>	<u>760</u>	<u>8.50</u>	<u>8.50</u>	<u>100</u>	<u>—</u>	<u>1.04</u>	<u>P/F</u>	<u>L/F</u>
CCV	<u>//</u>	<u>//</u>	<u>1400</u>	<u>26.7</u>	<u>758</u>	<u>8.0</u>	<u>8.00</u>	<u>100</u>	<u>—</u>	<u>—</u>	<u>P/F</u>	<u>L/F</u>
CCV											P / F	L / F

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 (Pro DSS 0.75 to 1.50); 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>Drew Liddick</u>	<u>3/30/20</u>	<u>0936</u>	<u>291829</u>	<u>10/21</u>	<u>1000</u>	<u>1000</u>	<u>P/F</u>	<u>L/F</u>
ICV	<u>//</u>	<u>//</u>	<u>0938</u>	<u>2908081</u>	<u>08/21</u>	<u>100</u>	<u>102.1</u>	<u>P/F</u>	<u>L/F</u>
CCV	<u>//</u>	<u>//</u>	<u>1404</u>	<u>1808891</u>	<u>07/20</u>	<u>5000</u>	<u>5010</u>	<u>P/F</u>	<u>L/F</u>
CCV								P / F	L / F

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	<u>Drew Liddick</u>	<u>3/30/20</u>	<u>0940</u>	<u>194546</u>	<u>07/21</u>	<u>7.0</u>	<u>24.4</u>	<u>7.0</u>	<u>-19.4</u>	<u>P/F</u>	<u>L/F</u>
Calibr.	<u>I</u>	<u>I</u>	<u>0942</u>	<u>194900</u>	<u>07/21</u>	<u>4.0</u>	<u>24.3</u>	<u>4.0</u>	<u>158.2</u>	<u>P/F</u>	<u>L/F</u>
Calibr.	<u>I</u>	<u>I</u>	<u>0944</u>	<u>193874</u>	<u>06/21</u>	<u>10.0</u>	<u>24.4</u>	<u>10.0</u>	<u>-197.2</u>	<u>P/F</u>	<u>L/F</u>
ICV	<u>I</u>	<u>I</u>	<u>0946</u>	<u>193874</u>	<u>06/21</u>	<u>10.0</u>	<u>24.4</u>	<u>10.0</u>	<u>-196.7</u>	<u>P/F</u>	<u>L/F</u>
CCV	<u>I</u>	<u>I</u>	<u>1406</u>	<u>194900</u>	<u>07/21</u>	<u>4.0</u>	<u>23.8</u>	<u>4.08</u>	<u>155.3</u>	<u>P/F</u>	<u>L/F</u>
CCV										P / F	L / F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50 ;

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

mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 177.8, slope from 4 to 7 -177.6 (both must be between 165 and 180 mV)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification:

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: ; Date of last verification:

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value, meters	Pass / Fail	Lab / Field
Pressure mode in air	<u>Drew Liddick</u>	<u>3/30/20</u>	<u>0948</u>	<u>0.00</u>	<u>0.00</u>	<u>P/F</u>	<u>L/F</u>

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS:

○ ○ ~ ~ ଭା ୦୦.୫ ୦.୫ ଖମ୍ବ ମଧ୍ୟ ୦୦୫

○ ○ ଗୁଡ଼ ୦୦୦୦ ଭାଗେ ୧୫୫୦୫ ମଧ୍ୟ

○ ○ ୦.୫୫୫୫ ୦.୫୫ ୦.୫୫ ୦.୫୫ ୦.୫୫ ୦.୫୫

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

Boldly "X" this box if there are qualified data on this page.

Meter ID:

RQ-

Project:

Notes: (1) Always wait for meter to stabilize before recording any readings.

(2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).

(3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp °C	Baro-meter mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Drew Liddick	03/31/20	0800	23.0	754	8.5	8.50	100	—	1.04	P / F	L / F
ICV			0804	23.0	754	8.5	8.56	100	—	1.04	P / F	L / F
CCV											P / F	L / F
CCV											P / F	L / F

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 (Pro DSS 0.75 to 1.50); 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.	Drew Liddick	03/31/20	0806	2911829	10/21	1000	1000	P / F	L / F
ICV			0808	2908681	08/21	100	101	P / F	L / F
CCV								P / F	L / F
CCV								P / F	L / F

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Drew Liddick	03/31/20	0810	194546	07/21	7.0	23.9	7.01	-21.0	P / F	L / F
Calibr.			0812	194900	07/21	4.0	23.9	4.00	155.5	P / F	L / F
Calibr.			0814	193874	06/21	10.0	24.0	10.01	-199.7	P / F	L / F
ICV			0816	193874	06/21	10.0	24.0	10.01	-199.4	P / F	L / F
CCV										P / F	L / F
CCV										P / F	L / F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50 ;

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

mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 178.7, slope from 4 to 7 -176.5 (both must be between 165 and 180 mV)

Does meter have a depth sensor that will be used to measure total depth & sample depth? **YES** / NO / NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification:

If NO, what will be used? (circle one) **Secchi Disk Line** / Sonar Unique ID: ; Date of last verification:

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value, meters	Pass / Fail	Lab / Field
Pressure mode in air	Drew Liddick	03/31/20	0818	0.00	0.00	P / F	L / F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS:

○ ○ 10.1 10.1 10.1 10.1 10.1 10.1 10.1 10.1 10.1 10.1
 ○ ○ 10.1 10.1 10.1 10.1 10.1 10.1 10.1 10.1 10.1 10.1

○ ○ 10.1 10.1 10.1 10.1 10.1 10.1 10.1 10.1 10.1 10.1
 ○ ○ 10.1 10.1 10.1 10.1 10.1 10.1 10.1 10.1 10.1 10.1

○ ○ 10.1 10.1 10.1 10.1 10.1 10.1 10.1 10.1 10.1 10.1
 ○ ○ 10.1 10.1 10.1 10.1 10.1 10.1 10.1 10.1 10.1 10.1
 ○ ○ 10.1 10.1 10.1 10.1 10.1 10.1 10.1 10.1 10.1 10.1
 ○ ○ 10.1 10.1 10.1 10.1 10.1 10.1 10.1 10.1 10.1 10.1

10.1 10.1

○ ○ 10.1 10.1 10.1 10.1 10.1 10.1 10.1 10.1 10.1 10.1

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

Boldly "X" this box if there are qualified data on this page.

Meter ID: Arya

RQ:

Project:

Notes: (1) Always wait for meter to stabilize before recording any readings.

(2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).

(3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification 04/28/20

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp °C	Baro-meter mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Kristene Taylor	07/01/20	9:11	26.4	755	8.00	8.00	99.4	✓	1.04	P/F	L/F
ICV	"	"	9:12	26.3	755	8.00	8.03	99.4	✓	1.04	P/F	L/F
CCV	"	"	15:08	27.3	753	7.9	7.85	99.2	✓	1.04	P/F	L/F
CCV											P/F	L/F

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 (Pro DSS 0.75 to 1.50); 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.	Kristene Taylor	07/01/20	9:14	2911829	10/21	1000	1000	P/F	L/F
ICV	"	"	9:15	1002B20	02/22	100	101	P/F	L/F
CCV	"	"	15:10	"	"	1000	1000	P/F	L/F
CCV								P/F	L/F

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Kristene Taylor	07/01/20	9:21	194546	07/21	7.00	25.1	7.00	-19.7	P/F	L/F
Calibr.	"	"	9:23	196401	09/21	4.01	25.7	4.01	159	P/F	L/F
Calibr.	"	"	9:26	192495	05/21	10.00	25.8	10.00	-195	P/F	L/F
ICV	"	"	9:27	"	"	10.00	25.8	10.00	-195	P/F	L/F
CCV	"	"	15:12	"	"	4	26.9	4.09	154.9	P/F	L/F
CCV										P/F	L/F

pH Acceptance criteria ± 0.2 SU;

mV pH 7 Range 0 ± 50 ;

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

mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 _____, slope from 4 to 7 _____ (both must be between 165 and 180 mV)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification: 04/28/20

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: _____; Date of last verification: _____

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value, meters	Pass / Fail	Lab / Field
Pressure mode in air	Kristene Taylor	07/01/20	9:31	0.00	0.00	P/F	L/F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS:

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

Boldly "X" this box if there are qualified data on this page.

Meter ID: Anya

RQ-

Project:

Notes: (1) Always wait for meter to stabilize before recording any readings.

(2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).

(3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

DO FDEP SOP FT 1500	Name	Date	Time CT-ET	Temp °C	Baro- meter mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Drew Liddick	09/22/20	0830	23.1	756	8.5	8.5	99.7	—	1.05	P/F	L/F
ICV	//	//	0832	23.1	756	8.5	8.5	99.5	—	1.05	P/F	L/F
CCV	//	//	1600	24.9	756	8.2	8.2	99.3	—	1.05	P/F	L/F
CCV											P/F	L/F

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 (Pro DSS 0.75 to 1.50); 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.	Drew Liddick	09/22/20	0834	1007990	06/22	1000	1000	P/F	L/F
ICV	//	//	0836	2007676	07/22	100	100	P/F	L/F
CCV	//	//	1604	2811260	11/20	55,000	49941	P/F	L/F
CCV								P/F	L/F

Conductivity Acceptance criteria $\pm 5\%$

pH FDEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Drew Liddick	09/22/20	0838	194546	07/21	7.0	22.6	7.0	-31.2	P/F	L/F
Calibr.	I	I	0840	200052	02/22	4.0	22.7	4.0	143.2	P/F	L/F
Calibr.	I	I	0842	196994	11/21	10.0	22.6	10.0	-203.7	P/F	L/F
ICV	I	I	0844	196994	11/21	10.0	22.6	10.0	-205.3	P/F	L/F
CCV	I	I	1606	200052	02/22	4.0	22.4	10.0	-204.1	P/F	L/F
CCV										P/F	L/F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50 ;

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

mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 _____, slope from 4 to 7 _____ (both must be between 165 and 180 mV)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification: _____

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: _____; Date of last verification: _____

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value, meters	Pass / Fail	Lab / Field
Pressure mode in air	Drew Liddick	09/22/20	0846	0.00	0.05	P/F	L/F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS:

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

Boldly "X" this box if there are qualified data on this page.

Meter ID: Anya

RQ:

Project:

Notes: (1) Always wait for meter to stabilize before recording any readings.

(2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).

(3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp °C	Baro-meter mmHg	D.O. Chart mg/L	Meter D.O. mg/L	%DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Drew Liddick	09/24/20	0933	22.2	755	8.7	8.6	99.4	—	1.05	P/F	L/F
ICV	//	//	0934	22.2	755	8.7	8.6	99.4	—	1.05	P/F	L/F
CCV	//	//	1300	27.0	755	7.9	7.9	99.6	—	1.05	P/F	L/F
CCV											P/F	L/F

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 (Pro DSS 0.75 to 1.50); 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.	Drew Liddick	09/24/20	0936	1007990	26/22	1000	1000	P/F	L/F
ICV	//	//	0938	2007676	07/22	100	100	P/F	L/F
CCV	//	//	1304	2904A78	03/21	10,000	10110	P/F	L/F
CCV								P/F	L/F

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Drew Liddick	09/24/20	0940	194546	07/21	7.0	22.6	7.0	-21.8	P/F	L/F
Calibr.			0942	200052	02/22	4.0	22.7	4.0	141.5	P/F	L/F
Calibr.			0944	196999	11/21	10.0	22.6	10.0	-202.4	P/F	L/F
ICV			0946	196999	11/21	10.0	22.6	10.0	-203.1	P/F	L/F
CCV			1308	200052	02/22	4.0	22.8	4.0	142.0	P/F	L/F
CCV										P/F	L/F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50 ;

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

mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 , slope from 4 to 7 (both must be between 165 and 180 mV)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification:

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: ; Date of last verification:

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value, meters	Pass / Fail	Lab / Field
Pressure mode in air	Drew Liddick	09/24/20	0948	0.00	0.20	P/F	L/F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS:

- 1. The first part of the book is a history of the world.
- 2. The second part of the book is a history of the world.
- 3. The third part of the book is a history of the world.

- 4. The fourth part of the book is a history of the world.
- 5. The fifth part of the book is a history of the world.
- 6. The sixth part of the book is a history of the world.

- 7. The seventh part of the book is a history of the world.
- 8. The eighth part of the book is a history of the world.
- 9. The ninth part of the book is a history of the world.
- 10. The tenth part of the book is a history of the world.
- 11. The eleventh part of the book is a history of the world.

- 12. The twelfth part of the book is a history of the world.

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

Boldly "X" this box if there are qualified data on this page.

Meter ID:

Amya

RQ:

Project:

Notes: (1) Always wait for meter to stabilize before recording any readings.

(2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).

(3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp °C	Baro-meter mmHg	D.O. Chart mg/L	Meter D.O. mg/L	%DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Drew Liddick	09/29/20	0930	23.3	753	8.4	8.4	99.3	—	1.05	P/F	L/F
ICV	//	//	0934	23.3	753	8.4	8.4	99.3	—	1.05	P/F	L/F
CCV	//	//	1330	25.3	753	8.1	8.1	99.4	—	—	P/F	L/F
CCV											P/F	L/F

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 (Pro DSS 0.75 to 1.50); 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.	Drew Liddick	09/29/20	0936	1007990	06/22	1000	1000	P/F	L/F
ICV	//	//	0938	2007676	07/22	100	100	P/F	L/F
CCV	//	//	1334	2811E60	11/20	50,000	49920	P/F	L/F
CCV								P/F	L/F

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Drew Liddick	09/29/20	0940	194546	07/21	7.0	22.7	7.0	-34.3	P/F	L/F
Calibr.	I	I	0942	200052	02/22	4.0	22.9	4.0	142.1	P/F	L/F
Calibr.	I	I	0944	196994	11/21	10.0	22.7	10.0	-205.2	P/F	L/F
ICV	I	I	0946	196994	11/21	10.0	22.7	10.0	-206.6	P/F	L/F
CCV	I	I	1336	200052	02/22	4.0	22.9	4.0	141.2	P/F	L/F
CCV										P/F	L/F

pH Acceptance criteria ± 0.2 SU;

mV pH 7 Range 0 ± 50 ;

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

mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 -170.9 , slope from 4 to 7 176.4 (both must be between 165 and 180 mV)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification:

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: ; Date of last verification:

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value, meters	Pass / Fail	Lab / Field
Pressure mode in air	Drew Liddick	09/29/20	0948	0.00	0.00	P/F	L/F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS:

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

[illegible]

1. ☐ **Yes** 2. ☐ **No** 3. ☐ **Not sure** 4. ☐ **Other** 5. ☐ **Don't know**

[illegible]

4.3.2



1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840.

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

Boldly "X" this box if there are qualified data on this page.

Meter ID:

Amys

RQ:

2020-09-28-58

Project:

SMP

- Notes: (1) Always wait for meter to stabilize before recording any readings.
 (2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).
 (3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

| DO DEP SOP FT 1500 | Name | Date | Time CT-ET | Temp °C | Baro-meter mmHg | D.O. Chart mg/L | Meter D.O. mg/L | % DO | Probe Charge | Probe Gain | Pass / Fail | Lab / Field |
|--------------------|--------------|------------|------------|---------|-----------------|-----------------|-----------------|------|--------------|------------|-------------|-------------|
| Calibr. | Drew Liddell | 10/01/2020 | 0904 | 22.4 | 755 | 8.6 | 8.6 | 99.7 | — | 1.05 | P/F | L/F |
| ICV | | | 0908 | 22.4 | 755 | 8.6 | 8.6 | 99.6 | — | 1.05 | P/F | L/F |
| CCV | SKAGGS | 10/01/20 | 12:55 | 22.4 | 754 | 8.6 | 8.6 | 99.1 | | | P/F | L/F |
| CCV | | | | | | | | | | | P/F | L/F |

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 (Pro DSS 0.75 to 1.50); 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. | Drew Liddell | 10/01/2020 | 0910 | 1007990 | 06/22 | 1000 | 1000 | P/F | L/F |
| ICV | | | 0912 | 2007676 | 07/22 | 100 | 100 | P/F | L/F |
| CCV | SKAGGS | 10/01/20 | 13:00 | 1007990 | 06/22 | 1000 | 999 | P/F | L/F |
| CCV | | | | | | | | P/F | L/F |

Conductivity Acceptance criteria $\pm 5\%$

| pH DEP SOP FT 1100 | Name | Date | Time CT-ET | Lot # | Expir. Date | pH Buffer SU | Temp °C | Meter reading SU | mV | Pass / Fail | Lab / Field |
|--------------------|--------------|------------|------------|--------|-------------|--------------|---------|------------------|--------|-------------|-------------|
| Calibr. | Drew Liddell | 10/01/2020 | 0914 | 194546 | 07/21 | 7.0 | 22.5 | 7.0 | -32.0 | P/F | L/F |
| Calibr. | | | 0916 | 200052 | 02/22 | 4.0 | 22.6 | 4.0 | 141.1 | P/F | L/F |
| Calibr. | | | 0918 | 196994 | 02/22 | 10.0 | 22.5 | 10.0 | -204.3 | P/F | L/F |
| ICV | | | 0920 | 200052 | 02/22 | 10.0 | 22.4 | 10.0 | -205.2 | P/F | L/F |
| CCV | SKAGGS | 10/01/20 | 13:16 | 200052 | 02/22 | 4.0 | 22.5 | 4.0 | 141.0 | P/F | L/F |
| CCV | | | | | | | | | | P/F | L/F |

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50 ;

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

mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 -172.3, slope from 4 to 7 173.1 (both must be between 165 and 180 mV)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification:

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: ; Date of last verification:

| Depth Sensor (Daily Calibration & ICV) | Name | Date | Time CT-ET | Calibrated Value (0.00 or Offset), meters | ICV Value, meters | Pass / Fail | Lab / Field |
|--|--------------|------------|------------|---|-------------------|-------------|-------------|
| Pressure mode in air | Drew Liddell | 10/01/2020 | 0922 | 0.00 | 0.00 | P/F | L/F |

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS:

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

Boldly "X" this box if there are qualified data on this page.

Meter ID:

Ava

RQ:

Project:

Notes: (1) Always wait for meter to stabilize before recording any readings.

(2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).

(3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

| DO DEP SOP FT 1500 | Name | Date | Time CT-ET | Temp °C | Baro-meter mmHg | D.O. Chart mg/L | Meter D.O. mg/L | % DO | Probe Charge | Probe Gain | Pass / Fail | Lab / Field |
|--------------------|--------------|------------|------------|---------|-----------------|-----------------|-----------------|------|--------------|------------|-------------|-------------|
| Calibr. | Drew Liddick | 10/06/2020 | 0910 | 22.6 | 755 | 8.6 | 8.6 | 99.7 | — | 1.07 | P / F | L / F |
| ICV | " | " | 0914 | 22.6 | 755 | 8.6 | 8.6 | 99.6 | — | 1.07 | P / F | L / F |
| CCV | " | " | 1300 | 26.0 | 754 | 8.0 | 8.1 | 99.9 | — | — | P / F | L / F |
| CCV | | | | | | | | | | | P / F | L / F |

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 (Pro DSS 0.75 to 1.50); 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. | Drew Liddick | 10/06/2020 | 0916 | 1007990 | 06/22 | 1200 | 1200 | P / F | L / F |
| ICV | " | " | 0918 | 2007676 | 07/22 | 100 | 100 | P / F | L / F |
| CCV | " | " | 1304 | 1007990 | 06/22 | 1000 | 1003 | P / F | L / F |
| CCV | | | | | | | | P / F | L / F |

Conductivity Acceptance criteria $\pm 5\%$

| pH DEP SOP FT 1100 | Name | Date | Time CT-ET | Lot # | Expir. Date | pH Buffer SU | Temp °C | Meter reading SU | mV | Pass / Fail | Lab / Field |
|--------------------|--------------|------------|------------|--------|-------------|--------------|---------|------------------|--------|-------------|-------------|
| Calibr. | Drew Liddick | 10/06/2020 | 0920 | 194546 | 07/21 | 7.0 | 22.6 | 7.0 | -29.8 | P / F | L / F |
| Calibr. | | | 0922 | 200052 | 02/22 | 4.0 | 22.7 | 4.0 | 141.5 | P / F | L / F |
| Calibr. | | | 0924 | 196994 | 11/21 | 10.0 | 22.4 | 10.0 | -203.6 | P / F | L / F |
| ICV | | | 2926 | 196994 | 11/21 | 10.0 | 22.6 | 10.0 | -206.2 | P / F | L / F |
| CCV | | | 1308 | 200052 | 02/22 | 4.0 | 22.8 | 4.0 | 143.8 | P / F | L / F |
| CCV | | | | | | | | | | P / F | L / F |

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50 ;

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

mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 -173.8 , slope from 4 to 7 171.3 (both must be between 165 and 180 mV)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification:

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: ; Date of last verification:

| Depth Sensor (Daily Calibration & ICV) | Name | Date | Time CT-ET | Calibrated Value (0.00 or Offset), meters | ICV Value, meters | Pass / Fail | Lab / Field |
|--|--------------|------------|------------|---|-------------------|-------------|-------------|
| Pressure mode in air | Drew Liddick | 10/06/2020 | | | | P / F | L / F |

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS:

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

Boldly "X" this box if there are qualified data on this page.

Meter ID:

Amya

RQ:

Project:

Notes: (1) Always wait for meter to stabilize before recording any readings.

(2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).

(3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

| DO DEP SOP FT 1500 | Name | Date | Time CT-ET | Temp °C | Baro-meter mmHg | D.O. Chart mg/L | Meter D.O. mg/L | % DO | Probe Charge | Probe Gain | Pass / Fail | Lab / Field |
|--------------------|--------------|------------|------------|---------|-----------------|-----------------|-----------------|------|--------------|------------|-------------|-------------|
| Calibr. | Drew Liddick | 10/07/2020 | 0910 | 22.5 | 755 | 8.6 | 8.6 | 99.6 | — | 105 | P/F | L/F |
| ICV | " | " | 0914 | 22.5 | 755 | 8.6 | 8.6 | 99.5 | — | 105 | P/F | L/F |
| CCV | " | " | 1240 | 26.8 | 755 | 7.9 | 7.9 | 99.6 | — | — | P/F | L/F |
| CCV | | | | | | | | | | | P/F | L/F |

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 (Pro DSS 0.75 to 1.50); 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. | Drew Liddick | 10/07/2020 | 0916 | 1007990 | 06/22 | 1000 | 1000 | P/F | L/F |
| ICV | " | " | 0918 | 2007676 | 07/22 | 100 | 100 | P/F | L/F |
| CCV | " | " | 1244 | 1007990 | 06/22 | 1000 | 1005 | P/F | L/F |
| CCV | | | | | | | | P/F | L/F |

Conductivity Acceptance criteria $\pm 5\%$

| pH DEP SOP FT 1100 | Name | Date | Time CT-ET | Lot # | Expir. Date | pH Buffer SU | Temp °C | Meter reading SU | mV | Pass / Fail | Lab / Field |
|--------------------|--------------|------------|------------|--------|-------------|--------------|---------|------------------|--------|-------------|-------------|
| Calibr. | Drew Liddick | 10/07/2020 | 0920 | 194546 | 07/21 | 7.0 | 22.5 | 7.0 | -27.8 | P/F | L/F |
| Calibr. | " | " | 0922 | 200052 | 02/22 | 4.0 | 22.7 | 4.0 | 148.7 | P/F | L/F |
| Calibr. | " | " | 0924 | 196994 | 11/21 | 10.0 | 22.5 | 10.0 | -205.2 | P/F | L/F |
| ICV | " | " | 0926 | 196994 | 11/21 | 10.0 | 22.5 | 10.0 | -206.6 | P/F | L/F |
| CCV | " | " | 1246 | 200052 | 02/22 | 4.0 | 22.7 | 4.0 | 148.7 | P/F | L/F |
| CCV | | | | | | | | | | P/F | L/F |

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50 ;

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

mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 -175.4 , slope from 4 to 7 176.5 (both must be between 165 and 180 mV)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification:

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: ; Date of last verification:

| Depth Sensor (Daily Calibration & ICV) | Name | Date | Time CT-ET | Calibrated Value (0.00 or Offset), meters | ICV Value, meters | Pass / Fail | Lab / Field |
|--|--------------|------------|------------|---|-------------------|-------------|-------------|
| Pressure mode in air | Drew Liddick | 10/07/2020 | 0928 | 0.00 | 0.00 | P/F | L/F |

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS:

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

Boldly "X" this box if there are qualified data on this page.

Meter ID:

RQ-

Project:

- Notes:** (1) Always wait for meter to stabilize before recording any readings.
 (2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).
 (3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

| DO
FDEP SOP
FT 1500 | Name | Date | Time
CT-ET | Temp
°C | Baro-
meter
mmHg | D.O.
Chart
mg/L | Meter
D.O.
mg/L | %DO | Probe
Charge | Probe
Gain | Pass
/ Fail | Lab
/ Field |
|---------------------------|--------------|------------|---------------|------------|------------------------|-----------------------|-----------------------|------|-----------------|---------------|----------------|----------------|
| Calibr. | Drew Liddick | 10/26/2020 | 0820 | 23.8 | 755 | 8.4 | 8.4 | 99.6 | — | 1.05 | Ⓟ/F | Ⓟ/F |
| ICV | | | 0824 | 23.7 | 755 | 8.4 | 8.4 | 99.7 | — | 1.05 | Ⓟ/F | Ⓟ/F |
| CCV | | | | | | | | | | | P/F | L/F |
| CCV | | | | | | | | | | | P/F | L/F |

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 (Pro DSS 0.75 to 1.50); 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. | Drew Liddick | 10/26/2020 | 0826 | 2007676 | 07/22 | 100 | 100 | Ⓟ/F | Ⓟ/F |
| ICV | | | 0828 | 1007990 | 06/22 | 1000 | 1000 | Ⓟ/F | Ⓟ/F |
| CCV | | | | | | | | P/F | L/F |
| CCV | | | | | | | | P/F | L/F |

Conductivity Acceptance criteria $\pm 5\%$

| pH
FDEP SOP
FT 1100 | Name | Date | Time
CT-ET | Lot # | Expir.
Date | pH
Buffer
SU | Temp
°C | Meter
reading
SU | mV | Pass
/ Fail | Lab
/ Field |
|---------------------------|--------------|------------|---------------|--------|----------------|--------------------|------------|------------------------|--------|----------------|----------------|
| Calibr. | Drew Liddick | 10/26/2020 | 0830 | 200114 | 05/22 | 7.0 | 22.4 | 7.0 | -35.5 | Ⓟ/F | Ⓟ/F |
| Calibr. | | | 0832 | 200052 | 02/22 | 4.0 | 22.5 | 4.0 | 135.0 | Ⓟ/F | Ⓟ/F |
| Calibr. | | | 0834 | 196994 | 11/21 | 10.0 | 22.5 | 10.0 | -203.0 | Ⓟ/F | Ⓟ/F |
| ICV | | | 0836 | 196994 | 11/21 | 10.0 | 22.5 | 10.0 | -206.3 | Ⓟ/F | Ⓟ/F |
| CCV | | | | | | | | | | P/F | L/F |
| CCV | | | | | | | | | | P/F | L/F |

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50 ;

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

mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 -167.5, slope from 4 to 7 170.5 (both must be between 165 and 180 mV)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification:

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: ; Date of last verification:

| Depth Sensor
(Daily Calibration &
ICV) | Name | Date | Time
CT-ET | Calibrated
Value (0.00 or
Offset), meters | ICV Value,
meters | Pass /
Fail | Lab /
Field |
|--|--------------|------------|---------------|---|----------------------|----------------|----------------|
| Pressure mode in air | Drew Liddick | 10/26/2020 | 0838 | 0.06 | 0.00 | Ⓟ/F | Ⓟ/F |

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS:

| | | | | | | | | | | |
|---|----|------|---|--------|------|-----|------|--------|-----------|------------|
| అ | రె | 2022 | అ | సెప్టె | 15.8 | 9.5 | 2022 | సెప్టె | అదే అంశము | బుద్ధిచూపు |
| అ | రె | 2022 | అ | సెప్టె | 15.8 | 9.5 | 2022 | సెప్టె | అదే | |

| | | | | | |
|---|----|-----|-----|-------------------------------|------------|
| అ | రె | అదే | అదే | బుద్ధిచూపు అంశములకు అదే అంశము | బుద్ధిచూపు |
| అ | రె | అదే | అదే | బుద్ధిచూపు అంశములకు అదే | |

23

| | | | | | | | | | |
|---|----|------|---|--------|------|-----|------|--------|-----------|
| అ | రె | 2022 | అ | సెప్టె | 15.8 | 9.5 | 2022 | సెప్టె | అదే అంశము |
| అ | రె | 2022 | అ | సెప్టె | 15.8 | 9.5 | 2022 | సెప్టె | అదే అంశము |
| అ | రె | 2022 | అ | సెప్టె | 15.8 | 9.5 | 2022 | సెప్టె | అదే అంశము |
| అ | రె | 2022 | అ | సెప్టె | 15.8 | 9.5 | 2022 | సెప్టె | అదే అంశము |

2022

2022

| | | | | | |
|---|----|-----|-----|------------------|------------|
| అ | రె | అదే | అదే | బుద్ధిచూపు అంశము | బుద్ధిచూపు |
|---|----|-----|-----|------------------|------------|

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

Boldly "X" this box if there are qualified data on this page.

Meter ID: AREYA

RQ:

Project:

Notes: (1) Always wait for meter to stabilize before recording any readings.

(2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).

(3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification 10/28/20

| DO DEP SOP FT 1500 | Name | Date | Time CT-ET | Temp °C | Baro-meter mmHg | D.O. Chart mg/L | Meter D.O. mg/L | %DO | Probe Charge | Probe Gain | Pass / Fail | Lab / Field |
|--------------------|--------------|----------|------------|---------|-----------------|-----------------|-----------------|------|--------------|------------|-------------|-------------|
| Calibr. | Alex Miranda | 11/12/20 | 8:44 | 23.2 | 753 | 8.50 | 8.40 | 99.1 | — | 1.04 | P/F | L/F |
| ICV | " " | " " | 8:46 | 23.3 | 753 | 8.40 | 8.40 | 98.3 | — | 1.04 | P/F | L/F |
| CCV | | | | | | | | | | | P/F | L/F |
| CCV | | | | | | | | | | | P/F | L/F |

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 (Pro DSS 0.75 to 1.50); 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. | Alex Miranda | 11/12/20 | 8:48 | 1007990 | 06/22 | 1000 | 1000 | P/F | L/F |
| ICV | " " | " " | 8:50 | 2007676 | 07/22 | 100 | 99.9 | P/F | L/F |
| CCV | | | | | | | | P/F | L/F |
| CCV | | | | | | | | P/F | L/F |

Conductivity Acceptance criteria $\pm 5\%$

| pH DEP SOP FT 1100 | Name | Date | Time CT-ET | Lot # | Expir. Date | pH Buffer SU | Temp °C | Meter reading SU | mV | Pass / Fail | Lab / Field |
|--------------------|--------------|----------|------------|--------|-------------|--------------|---------|------------------|--------|-------------|-------------|
| Calibr. | Alex Miranda | 11/12/20 | 8:52 | 202114 | 05/22 | 7. | 23.4 | 7.01 | -34.8 | P/F | L/F |
| Calibr. | " " | " " | 8:54 | 200052 | 02/22 | 4. | 23.5 | 4.00 | 139.7 | P/F | L/F |
| Calibr. | " " | " " | 8:56 | 196994 | 11/21 | 10. | 23.4 | 10.00 | -205.1 | P/F | L/F |
| ICV | " " | " " | 8:58 | 196994 | 11/21 | 10. | 23.4 | 10.02 | -206.4 | P/F | L/F |
| CCV | | | | | | | | | | P/F | L/F |
| CCV | | | | | | | | | | P/F | L/F |

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50 ;

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

mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 , slope from 4 to 7 (both must be between 165 and 180 mV)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification: 10/28/20

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: ; Date of last verification:

| Depth Sensor (Daily Calibration & ICV) | Name | Date | Time CT-ET | Calibrated Value (0.00 or Offset), meters | ICV Value, meters | Pass / Fail | Lab / Field |
|--|--------------|----------|------------|---|-------------------|-------------|-------------|
| Pressure mode in air | Alex Miranda | 11/12/20 | 9:00 | 0.00 | 0.0 | P/F | L/F |

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS:

Q

Q

Q

(34)