

used as "field meter" on 5/24/21

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:

Moc

RQ:

Project:

Clipboard Creek

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

5/17/21

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.	Kim Appleby	5/24/21	816	24.3	764.2	8.4	—	100.6	—	1.06558	P/F	L/F
ICV	↓	↓	819	24.3	764.2	8.4	8.42	100.6	—	1.06558	P/F	L/F
CCV	↓	6/10/21	1724	19.7	759.9	9.1	9.07	99.2	—	1.06558	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 µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	Kim Appleby	5/24/21	820	210426E	5/2022	50,000	50,000	P/F	L/F
ICV	↓	↓	824	210426D	5/2022	20,000	20,436	P/F	L/F
CCV	↓	6/10/21	1726	210426E	5/2022	50,000	51,960	P/F	L/F
CCV								P/F	L/F

Conductivity Acceptance criteria ± 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.						7.				P/F	L/F
Calibr.						4.				P/F	L/F
Calibr.						10.				P/F	L/F
ICV										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: 5/17/21

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	Kim Appleby	5/24/21	830	0.00	0.00	P/F	L/F

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

COMMENTS:

Used as "Field meter" on 6/9/21

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: LILO

RQ-

Project: Clapboard Creek

- 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 5/24/21

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.	Kim Appleby	6/9/21	806	23.0	765.2	8.6	8.63	100.7	-	1.066	(P) F	(L) F
ICV	↓	↓	808	23.1	765.2	8.6	8.63	100.7	-	1.066	(P) F	(L) F
CCV	↓	7/8/21	1633	21.0	761.8	8.9	8.98	100.8	-	1.066	(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.	Kim Appleby	6/9/21	820	210426E	5/2022	50,000	50,000	(P) F	(L) F
ICV	↓	↓	825	210726D	5/2022	20,000	20,002	(P) F	(L) F
CCV	↓	7/8/21	1640	210426E	5/2022	50,000	50,100	(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.						7.				P / F	L / F
Calibr.						4.				P / F	L / F
Calibr.						10.				P / F	L / F
ICV										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 $\pm$ 50; mV pH 4 Range +180 $\pm$ 50; mV pH 10 Range -180 $\pm$ 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: 5/27/21

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	Kim Appleby	6/9/21	852	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:

SECN Coastal Water Quality Monitoring
Datasonde Datasheet v1.42 (11/2019)—DEPLOYMENT

Station Name

TIMUclap02

Calibration / Pre-Deployment

Instrument (Sonde) # (SN) Moe
 Calibration Date 5/24/21 Calibrated By Kim Appleby
 Battery Voltage Pre-Calibration 2.36 Battery Voltage >5.3 Y ☒ (Exo3) Battery Voltage Post-Calibration 2.29
 Central Wiper-Replaced Y ☒ Central Wiper Parking 180° Y ☒ N
 Barometric Pressure (mmHg) 764.2 Conductivity Cell Constant 0.478613 ODO Gain 1.060552
 pH7 (mv) / pH10 (mv) / pH4 (mv)(check) / pH Slope /

Parameter	Temp (°C)	Sp. Cond. (mS/cm)	Depth (m)	ODO (% Sat.)	ODO (mg/l)	pH7	pH10
Standard	<u>24.13</u>	<u>50.00</u>	<u>0.00</u>	<u>100.0</u>	<u>8.4</u>	<u>/</u>	<u>/</u>
Measured	<u>24.03</u>	<u>50.54</u>	<u>0.00</u>	<u>100.6</u>	<u>8.42</u>	<u>/</u>	<u>/</u>
Calibrated	<u>/</u>	<u>50.00</u>	<u>0.00</u>	<u>100.6</u>	<u>8.42</u>	<u>/</u>	<u>/</u>

Parameter	pH4 (check)	Turbidity Low (FNU)	Turbidity High (FNU)	Chl Low (µg/l)	Chl High (µg/l)	BGA-PC Low (µg/l)	BGA-PC High (µg/l)
Standard	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>
Measured	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>
Calibrated	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>

Deployment

Deployed By: Kim Appleby File Name: TIMUclap02-20210524
 (Station name _YYYYMMDD)
 Sonde Start Date: 5/24/21 Sonde Start Time: 945 Eastern Standard Time (EST)
 Actual Deployment Date: 5/24/21 Actual Time Placed in Water: 910 (EST)

Comments:

Site Observations: Fish Kill ☐ Algal Bloom ☐ Debris ☐ Hurricane / Tropical Storm ☐ Other ☐

Observation Description:

Recorded By: Kim Appleby Computer Entry By / Date: _____

Certified By / Date: _____

SECN Coastal Water Quality Monitoring
YSI Datasonde Datasheet v1.42 (11/2019)— RETRIEVAL

Station Name

TIMUclap02

Retrieval

In situ Sonde # (SN)

Mac

Retrieved By

Kim Appleby

Retrieval Date

~~6/4/21~~ 6/9/21

Retrieval Time

1425

(EST)

Field Meter # (SN)

L.I.L.O

Field Meter Calibration Date

~~6/4/21~~ 6/9/21

On Site Readings

	Temp (°C)	Baro. Pres. (mmHg)	ODO (% Sat.)	ODO (mg/l)	Sp. Cond. (mS/cm)	Salinity (psu)	pH	Turb. (FNU)	Depth (m)	Chla (µg/l)	BGA (µg/l)
Field Meter	29.45	765.0	95.0	6.28	40.31	25.63	/	/	2.58	/	/
In situ Sonde	Not available (see comments)										

Fouling presence: Please record type of fouling **AND** amount (e.g. A, B, E, / H). Types A= Algae, B= Barnacles, C= Crabs, E= Eggs, F= Fish, O= Other, N= none, S= Sediment / Amount H=Heavy, M= Moderate, L= Light, N= None

Sonde/Guard: N External Screen: - Temp/Cond: N

ODO Probe: N pH Probe: - Turbidity: -

Post Deployment

Post Deployment Reading Date

6/10/21

Battery Voltage

Central Wiper Parking 180°

☒ N

Barometric Pressure (mmHg)

759.9

Conductivity Cell Constant

0.478613

pH7 (mv)

pH10 (mv)

pH Slope

pH4 (mv)

Parameter	Temp (°C)	Sp. Cond. (mS/cm)	Depth (m)	ODO (% Sat.)	ODO (mg/l)	pH7	pH10
Standard	21.17	50.00	0.00	100.0	9.1	/	/
Measured (clean sensors)	21.11	51.96		99.2	9.07	/	/
Parameter	pH4 (check)	Turbidity Low (FNU)	Turbidity High (FNU)	Chl Low (µg/l)	Chl High (µg/l)	BGA-PE Low (µg/l)	BGA-PE High (µg/l)
Standard							
Measured (clean sensors)							

Any Probe Malfunctions?

☒ N

If Y, describe in the comments.

File Name:

TIMUclap02-2021

(Station name_YYYYMMDD)

Comments:

No data recorded after 6/4/21. Not connecting to handheld during initial post-deploy readings. Removed battery & replaced & restart sonde. Seemed to resolve issue. Data later revealed larger issue. C/T data was intermittently not being recorded. Issue was found to be a broken pin on the C/T sensor. Issue resolved after this deployment. Also affected deployment 6/4/22/2021. Temp for post deploy was verified w/ NERF2 which had expired certification at time. was re-certified at later date.

Recorded By

Kim Appleby

Computer Entry By / Date

Certified By / Date

Temp verified w/ NERF2 which had expired certification at time