

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: Stitch

RQ: 2019-08-26-18'

Project: Swansea Central

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 6/2019

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.	K. Appleby	8/27/19	7:28	23.5	756.5	8.5	8.45	100.4	-	-	P/F	L/F
ICV	↓	↓	7:30	23.6	756.5	8.4	8.45	99.6	-	-	P/F	L/F
CCV	C Ruben	↓	15:00	23.2	754	8.5	8.6	100.5	-	-	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.	K. Appleby	8/27/19	7:32	190711B	7/2020	1000	1000	P/F	L/F
ICV	↓	↓	7:34	190319B	3/2020	100	104.3	P/F	L/F
CCV	C Ruben	↓	15:02	190711B	7/2020	1000	1004	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.	K. Appleby	8/27/19	7:51	2902778	1/2021	7.00	24.4	7.00	-82.5	P/F	L/F
Calibr.	↓	↓	7:53	2904300	3/2021	4.00	24.3	4.00	95.3	P/F	L/F
Calibr.	↓	↓	7:56	2901351	7/2020	10.00	24.3	10.00	-252.2	P/F	L/F
ICV	↓	↓	7:59	2904300	3/2021	4.00	24.3	3.99	95.1	P/F	L/F
CCV	C Ruben	↓	15:05	2902778	1/2021	7.0	24.5	7.10	-85.6	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: 6/2019

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	K. Appleby	8/27/19	9:00	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:

Algae Bloom Response-as needed

Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: WQAP

Requester: Jeremy M. ParrishField Report Prepared By: K. Appleby

Project ID: BLOOM-RESP

Collected By: K. Appleby & L. RubenSampling Agency: FDEP NE Rol

Location <u>Sunshine Lake Center</u>		☐ Comp ☐ Grab	Collection (comp begin or grab) Date _____ Time _____		Eastern Central	Composite end Date _____ Time _____		Bottle Group(s) (See pg 2) <u>A, L</u>
Field ID <u>61NE0857</u>		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)			
WIN/STORET #		Temp (C)		pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)	
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms		Salinity (ppt)		Comments			

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Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms		Salinity (ppt)		Comments			

Relinquished By: <u>K. Appleby</u>	Date/Time <u>8/27/19 1600</u>	Shipping Method <u>FedEx</u>	Number of Coolers Shipped: <u>1</u>	Received By:	Date/Time
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Group: A	Bottle Type:	PT-50ML	# of Bottles: 9	Preservative:	ICE	Enter Number of Bottles Sent to Lab	0 1
BLOOM-ID							
Group: B	Bottle Type:	BG-250ML-WDMT H	# of Bottles: 9	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
W-MCYST-AA							
Group: C	Bottle Type:	BP-1L	# of Bottles: 9	Preservative:	ICE	Enter Number of Bottles Sent to Lab	0 1
CHLSUITE-W							
Group: C	Bottle Type:	P-500ML	# of Bottles: 9	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	0
W-NH3 W-NO2NO3 W-S-A-TP W-TKN							
Group: C	Bottle Type:	P-125ML	# of Bottles: 9	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	0
W-PO4-F							
Group: D	Bottle Type:	BP-1L	# of Bottles: 9	Preservative:	Lugols	Enter Number of Bottles Sent to Lab	0
DTY-QN-C PKD-QN-BV							