

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: Desi RQ: 2020-08-10-24 Project: Stark FYI

- 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 6/18/20

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.	Brian Davis	8/31/20	729	23.6	758.9	8.5	8.5	99.9	1.07	1.07	P/F	L/F
ICV	↓	↓	734	24.2	759.0	8.4	8.40	100.1	1.07	1.07	P/F	L/F
CCV	K. Appleby	↓	1550	23.8	758.2	8.4	8.41	99.9	1.07	1.07	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.	Brian Davis	8/31/20	732	200407C	4/21	1000	1000	P/F	L/F
ICV	↓	↓	735	200407D	4/21	100	102.5	P/F	L/F
CCV	K. Appleby	↓	1553	191025A	11/2020	1413	1408	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.	Brian Davis	8/31/20	740	2001C31	1/22	7.0	24.6	7.01	-140	P/F	L/F
Calibr.	↓	↓	743	2910629	10/21	4.0	24.7	4.01	166.9	P/F	L/F
Calibr.	↓	↓	746	2002911	8/21	10.01	23.8	10.01	-186.6	P/F	L/F
ICV	↓	↓	749	2001C31	1/22	7.0	24.5	7.06	-146	P/F	L/F
CCV	K. Appleby	↓	1555	2910629	10/21	4.00	24.5	4.07	163.2	P/F	L/F
CCV	↓	↓	1557	2002911	8/21	10.00	24.7	10.01	-188.5	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	Brian Davis	8/31/20	752	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:

Customer: NE-DIST
Project ID: FY15

Requester: Tanya Welborn
Collected By: B. Davis, J. K. McDonald

Field Report Prepared By: B. Davis
Sampling Agency: DEAR NE-DIST

FY15 Starke WWTF Upstream Control		21030676		Matrix (type, e.g., Salt, Fresh, etc)		Fresh		Temp (C)		26.8		pH		6.99		Sample Depth		0.3		Diss. Oxygen		6.8		Total Res. Chlorine		141.2		Bottle Group(s)		C	
CONTROL SITE		☒ dd ☐ dms		Salinity (ppt)		0.07		☒ dd ☐ dms		0.07		Comments																			
Latitude		29.93665		Longitude		-82.11480																									
FY15 Starke WWTF Downstream Test		21030677		Matrix (type, e.g., Salt, Fresh, etc)		Fresh		Temp (C)		26.9		pH		7.22		Sample Depth		0.3		Diss. Oxygen		6.72		Total Res. Chlorine		187.8		Bottle Group(s)		C, D	
TEST SITE		☒ dd ☐ dms		Salinity (ppt)		0.09		☒ dd ☐ dms		0.09		Comments																			
Latitude		29.93667		Longitude		-82.15360																									
Field ID				Matrix (type, e.g., Salt, Fresh, etc)				Temp (C)				pH				Sample Depth				Diss. Oxygen				Total Res. Chlorine				Bottle Group(s)			
WINSTORET #				Salinity (ppt)				☒ dd ☐ dms				Comments																			
Latitude				Longitude				☒ dd ☐ dms																							
Location				Collection (comp begin or grab)				☒ Comp ☐ Grab				Time				Eastern		Composite end										Bottle Group(s)			
Field ID				Matrix (type, e.g., Salt, Fresh, etc)				Temp (C)				pH				Sample Depth				Diss. Oxygen				Total Res. Chlorine				Bottle Group(s)			
WINSTORET #				Salinity (ppt)				☒ dd ☐ dms				Comments																			
Latitude				Longitude				☒ dd ☐ dms																							

Relinquished By: <u>B. Davis</u>	Date/Time: <u>1600 8/31/20</u>	Shipping Method: <u>FEDEX</u>	Number of Coolers Shipped: <u>2</u>	Received By:	Date/Time:
----------------------------------	--------------------------------	-------------------------------	-------------------------------------	--------------	------------