

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: Deploable

RQ: 2020-12-07-13

Project: SMP: Highlands 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 10/27/20

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.	<u>Miranda Carroll</u>	<u>12/9/20</u>	<u>0813</u>	<u>23.71</u>	<u>766.0</u>	<u>8.5</u>	<u>8.47</u>	<u>100.0</u>			<u>P</u> / F	<u>L</u> / F
ICV	<u>✓</u>	<u>✓</u>	<u>0818</u>	<u>23.67</u>	<u>760.0</u>	<u>8.5</u>	<u>8.47</u>	<u>100.0</u>			<u>P</u> / F	<u>L</u> / F
CCV	<u>✓</u>	<u>✓</u>	<u>1709</u>	<u>23.41</u>	<u>760.0</u>	<u>8.5</u>	<u>8.46</u>	<u>99.4</u>			<u>P</u> / F	<u>L</u> / 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.	<u>Miranda Carroll</u>	<u>12/9/20</u>	<u>0823</u>	<u>1009989</u>	<u>8/22</u>	<u>2500</u>	<u>2500</u>	<u>P</u> / F	<u>L</u> / F
ICV	<u>✓</u>	<u>✓</u>	<u>0829</u>	<u>2007676</u>	<u>7/22</u>	<u>100</u>	<u>100</u>	<u>P</u> / F	<u>L</u> / F
CCV	<u>✓</u>	<u>✓</u>	<u>1710</u>	<u>1009989</u>	<u>8/22</u>	<u>2500</u>	<u>2496</u>	<u>P</u> / F	<u>L</u> / 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.	<u>Miranda Carroll</u>	<u>12/9/20</u>	<u>0830</u>	<u>202114</u>	<u>5/22</u>	<u>7.00</u>	<u>23.73</u>	<u>7.01</u>		<u>P</u> / F	<u>L</u> / F
Calibr.	<u>✓</u>	<u>✓</u>	<u>0835</u>	<u>202304</u>	<u>7/22</u>	<u>4.01</u>	<u>23.69</u>	<u>4.00</u>		<u>P</u> / F	<u>L</u> / F
Calibr.	<u>✓</u>	<u>✓</u>	<u>0838</u>	<u>203539</u>	<u>6/22</u>	<u>10.02</u>	<u>23.72</u>	<u>10.00</u>		<u>P</u> / F	<u>L</u> / F
ICV	<u>✓</u>	<u>✓</u>	<u>0839</u>	<u>202304</u>	<u>7/22</u>	<u>4.01</u>	<u>23.69</u>	<u>3.96</u>		<u>P</u> / F	<u>L</u> / F
CCV	<u>✓</u>	<u>✓</u>	<u>1711</u>	<u>203539</u>	<u>6/22</u>	<u>10.02</u>	<u>23.77</u>	<u>10.10</u>		<u>P</u> / F	<u>L</u> / 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: Deeper Blue; Date of last verification: 7/7/20

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						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:

Client Name: FDEP
Address: 2600 Blair Stone Rd.
Tallahassee, FL, 32399
Phone: (239) 344-5719
Email: dep-overflowmicro@dep.state.fl.us

Bill to: Frances Moore
P.O. #: Lab B77880

Project Run/Location: Highlands Creek + Lakes

520120335

“Sample Type” is used to indicate whether the sample was a grab (G) or whether it was a composite (C).

Sample must be refrigerated or stored in wet ice after collection. The maximum temperature during storage should be 6°C (42.8°F). Under "Preservative," list any preservatives that were added to the sample container.

a label identifying sample ID, premeasured preservative contained in the bottle, sample type, client ID, and parameters for analysis.

information should be added to each bottle label after collection with permanent black ink: date and time of collection, sampler's name or initials, and any field number or ID.

containing preservative may be rinsed with appropriate sample prior to collection.

[illegible]

James

Witnessed by:

Completed by: _____

ished by:

ished by:

pH < 2; 0 BEAS temperature: 4.0°C