

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: keys

RQ: 2019-04-01-57

Project: Calcasieu

2019-04-01-53

- 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: 3/19/19

DO FDEP SOP FT 1500	Name	Date	Time CT-ET	Temp °C	Bare meter mmHg	B.O. Chart mg/L	Meter DO mg/L	% DO	Probe Charge	Probe Gain	Pass /	Lab /
Calibr.	<u>Grady Smith</u>	<u>4/1/19</u>	<u>0737</u>	<u>24.81</u>	<u>760</u>	<u>8.21</u>	<u>8.21</u>	<u>100.0</u>	<u>56.3</u>		<u>(P) F</u>	<u>(L) F</u>
ICV	<u>"</u>	<u>4/1/19</u>	<u>0741</u>	<u>24.23</u>	<u>760</u>	<u>8.23</u>	<u>8.23</u>	<u>100.0</u>	<u>56.3</u>		<u>(P) F</u>	<u>(L) F</u>
CCV	<u>S. Carter</u>	<u>4/1/19</u>	<u>1632</u>	<u>24.86</u>	<u>760</u>	<u>8.28</u>	<u>8.02</u>	<u>92.4</u>	<u>56.3</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 µmhos/cm	Meter Reading µmhos/cm	Pass /	Lab /
Calibr.	<u>Grady Smith</u>	<u>4/1/19</u>	<u>0743</u>	<u>2808E90</u>	<u>8/20</u>	<u>1000</u>	<u>1000</u>	<u>(P) F</u>	<u>(L) F</u>
ICV	<u>Grady Smith</u>	<u>4/1/19</u>	<u>0745</u>	<u>2812A65</u>	<u>12/20</u>	<u>100</u>	<u>100</u>	<u>(P) F</u>	<u>(L) F</u>
CCV	<u>S. Carter</u>	<u>4/1/19</u>	<u>1630</u>	<u>28090250</u>	<u>9/20</u>	<u>10000</u>	<u>9925</u>	<u>(P) F</u>	<u>(L) F</u>
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 /	Lab /
Calibr.	<u>Grady Smith</u>	<u>4/1/19</u>	<u>0738</u>	<u>187681</u>	<u>11/20</u>	<u>8.09</u>	<u>25.11</u>	<u>7.00</u>	<u>-61</u>	<u>(P) F</u>	<u>(L) F</u>
Calibr.	<u>"</u>	<u>4/1/19</u>	<u>0806</u>	<u>187188</u>	<u>11/20</u>	<u>4.01</u>	<u>25.30</u>	<u>3.79</u>	<u>164.2</u>	<u>(P) F</u>	<u>(L) F</u>
Calibr.	<u>"</u>	<u>4/1/19</u>	<u>0803</u>	<u>186877</u>	<u>10/20</u>	<u>10.01</u>	<u>23.18</u>	<u>10.01</u>	<u>177.9</u>	<u>(P) F</u>	<u>(L) F</u>
ICV	<u>"</u>	<u>4/1/19</u>	<u>0806</u>	<u>187188</u>	<u>11/20</u>	<u>4.01</u>	<u>25.30</u>	<u>4.01</u>	<u>163.5</u>	<u>(P) F</u>	<u>(L) F</u>
CCV	<u>S. Carter</u>	<u>4/1/19</u>	<u>1635</u>	<u>186877</u>	<u>10/20</u>	<u>10.00</u>	<u>25.48</u>	<u>10.00</u>	<u>171.8</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 _____, 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: 12/26/19

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: Denger BL Date of last verification: 12/26/19

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset) meters	ICV Value meters	Pass /	Lab /
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: