

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Boldly "X" this box if there is qualified data on this page.

Meter ID: VSI 600xlm 99

Project: ECOS

- Notes: (1) Numbers ≤ 4 , are rounded down; numbers ≥ 5 are rounded up (e.g., 5.15 becomes 5.2).
 (2) Always wait for meter to stabilize before recording any readings.
 (3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Circle/Fill In: Lab Calibration or Calibration/Verification on Site ECOS CG

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification 3-20-2017

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Jessie Tolbert	3/28	8:40	21.2	8.8	8.8	100	58.4	0.79	P	L
ICV	" "	" "	8:43	21.0	8.9	8.9	99	—	.79	P	L
CCV	Chris Green	" "	16:00	25.1	8.2	8.2	100	—	—	P	L
CCV											

Report DO mg/L with one decimal figure and DO % saturation as a whole number with no decimals.

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; 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.	Jessie Tolbert	3/28	8:47	170208D	2/2018	1000	1004	P	L
ICV	" "	" "	8:52	16014A	3/2017	100	103	P	L
CCV	Chris Green	" "	16:03	170105A	1/18	500	505	P	L
CCV									

Report specific conductance as a whole number with no decimal figure.

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Jessie Tolbert	3/28	8:56	170208B	8/2018	7.0	7.0	-17.3	P	L
Calibr.	" "	" "	9:00	170208A	2/2018	4.0	4.0	155	P	L
Calibr.	" "	" "	9:03	170208C	8/2018	10.0	10.0	-188	P	L
ICV	" "	3/28	9:05	" "	" "	10.0	10.0	-188	P	L
CCV	Chris Green	" "	16:07	170208B	8/18	7.0	7.0	—	P	L
CCV										

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU; mV pH7 Range 0 $\pm$ 50;

mV pH 4 Range +180 $\pm$ 50;

mV pH 10 Range -180 $\pm$ 50;

Slope from 7 to 10 and 4 to 7 must be between 165 and 180 mV

Depth (Quarterly)

Date of Last Depth Verification 2-1-17

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air				0.000			

ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
ESOC PILOT STUDY - SURFACE WATER FIELD SHEET
Watershed Monitoring Section

February 2017

STATION INFORMATION

Station Name: Apalachicola @ Old Victory Bridge Date: 3-28-2017
(MM/DD/YYYY)
Waterbody Name: Apalachicola River All Times Are: ETZ or CTZ
(circle one)
Type of Visit: Passive Sampling Midway Through Passive Sampling
(circle one) Device Deployment Deployment Period Device Retrieval
Field Sheet Completed by: CB

WATER CHARACTERISTICS

Total Water Depth: 2.7 (meters) Secchi Depth: 1.6 (meters) Stage: _____ (feet)
(Average of 2 measurements) (from SHADED side) (if applicable)
Stream/River/Canal Flow: (Circle One, if applicable) No Flow Flow within Banks Flow Above Banks
Stream/River/Canal Water Velocity: .33 (meters/second)
Water Level: (Circle One) Low Normal High
Water Conditions: (circle all that apply) Clear Murky High Suspended Solids Surface Film
Algal Growth Other TANIC
Bottom Conditions: (circle all that apply) Gravel/Shell Rubble Smooth Sediment Woody Debris *Organic Muck
(may be assessed during site reconnaissance) Other Not assessed *(very fine-grained flocculent organic material)

FIELD MEASUREMENTS

(collect at same depth as passive sampling device)

Time (24 hr.)	Depth Collected (meters)	Temperature (°C)	Specific Conductance (µmhos/cm)	D.O. (%)	D.O. (mg/L)	pH (SU)
<u>14:28</u>	<u>0.3</u>	<u>20.6</u>	<u>143</u>	<u>109</u>	<u>9.8</u>	<u>8.0</u>

Photos Taken? Yes No Fuel Powered Equipment Used? (e.g. boat motor) Yes No

Weather Conditions: Clear

Personnel/Visitors On Site: Chris Green / Jessic Tolbert III

Have any personnel on site contacted or consumed any of the following substances on the day of sampling activities?

Fumes containing engine exhaust --- Yes No Oils, Tars, Fuels --- Yes No
Paints, Solvents --- Yes No Tobacco Smoke --- Yes No
Fragrances (e.g. perfume, deodorant) --- Yes No Bug Sprays, Pesticides, Herbicides --- Yes No
Sunscreens --- Yes No Soap, Detergents, Anti-bacterial cleansers --- Yes No
Caffeine --- Yes No Animal or Human Urine or Excrement --- Yes No
Prescription / Over-the-counter Medications, Hormonal Substances (human or veterinary) --- Yes No

If "yes" was selected for any items above, describe substances contacted/consumed and list type, brand, and active ingredient:

Place Site Label Here
(if collecting samples)

Place QA/QC Label Here
(if applicable)

Station Name: Aparachicola & Old Victory Bridge

Date: 3-28-2017

PASSIVE SAMPLING DEVICE INFORMATION

Device ID: _____

Device Deployment Date / Time: _____ (24 hr.) Device Deployed / Retrieved By: _____

Date / Time of Observation: _____ (24 hr.)
(if observation conducted midway through deployment period)

Device Retrieval Date / Time: _____ (24 hr.) Device Depth: _____ (meters)
(complete for each deployment / observation / retrieval event)

Device Condition: (circle all that apply) Submerged Exposed Above Water Damaged Moved Buried
(complete for each deployment / observation / retrieval event)
Other _____

Photos taken of sampling device in water? (circle one) Yes No

WHOLE WATER SAMPLE COLLECTION INFORMATION

☒ N/A (No samples collected)

Note: *Water sample collection time must match field measurement collection time.*

Water Sample Collected By: _____

Water Sample Collection Device: Direct Grab with Sample Bottles Van Dorn # of grabs Dipper Other _____
(Circle One) Equipment ID (if applicable): _____

PRESERVATION INFORMATION

☒ N/A (No samples collected)

Were all appropriate samples (including QA/QC blanks) preserved within 15 minutes in wet ice ($\leq 6^{\circ}\text{C}$)? Yes No

(Please describe any variations to this preservation protocol in the comments section.) Preserved by: _____

QA/QC SAMPLE INFORMATION

☒ N/A (No QA/QC samples collected)

Whole Water QA/QC Sample: N/A Field Blank Equipment Blank Time: _____ (24 hr.)
(Circle One) (Field-cleaned) (Lab-cleaned)
Equipment ID (if applicable): _____ Collected by: _____

POCIS and SPMD QA/QC Sample: N/A Field Blank Collected by: _____
(Circle One)
Time Containers Opened: _____ (24hr.)
Time Containers Closed: _____ (24hr.)

Comments: Include information such as: any variations from normal preservation protocols, any problems experienced with collecting samples, additional sites conditions not documented above, description of any photos taken, any qualifiers needed (ex. "J" for failed calibration verification, etc.), etc.

Midway through deployment period - collected field measurements.

Sampler Names: (PLEASE PRINT)

Chris Green
Jessie Tolbert
Ch: 3

Sampler Signatures:

OFFICE USE ONLY

Reviewed for completion by:

Date: