

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

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

Meter ID:

651 RESI

RQ:

2022-08-01-65

Project:

LSJRSW

- 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

8/1/2022

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.	J Pansh	8/3/22	721	23.4	761	8.5	8.5	100.2	—	1.023	P/F	L/F
ICV	J	8/3/22	723	23.2	761	8.5	8.58	100.4	—	1.023	P/F	L/F
CCV	J Pansh	8/3/22	1633	24.6	760	8.3	8.25	99.4	—	—	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.	J Pansh	8/3/22	724	220225A	3/23	1000	1000	P/F	L/F
ICV	J	8/3/22	726	210917A	9/22	100	100	P/F	L/F
CCV	J Pansh	8/3/22	1635	21122A	12/22	15000	14996	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.	J Pansh	8/3/22	727	4203887	2/24	7.	24.1	7.01	15.3	P/F	L/F
Calibr.	J	8/3/22	733	2205696	5/24	4.	24.2	4.00	162.7	P/F	L/F
Calibr.	J	8/3/22	735	2202463	7/23	10.	24.1	10.00	185.3	P/F	L/F
ICV	J	8/3/22	738	2205696	5/24	4	23.7	4.00	159	P/F	L/F
CCV	J Pansh	8/3/22	1637	2202463	7/23	10	25.1	10.03	188	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 10 170.2, slope from 4 to 7 178 (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: 8/1/2022

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	J Pansh	8/3/22	740	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:



DIVERSIFIED
ENVIRONMENTAL LABORATORIES, INC.

Project Number:
(Lab Use Only)

CHAIN OF CUSTODY RECORD

3653 Regent Boulevard, Suite # 509
Jacksonville, FL 32224
P. (904) 807-9625 E. info@delllab.com
F. (904) 807-9627

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Company Name		Florida Department of Environmental Protection		Container Information (Qty, Size, & Type)		Sample Matrix Codes:																							
Address		8800 Baymeadows Way W Ste 100		NPW		A. Air P. Petroleum																							
City		Jacksonville		NPW		B. Bulk S. Soil/Sludge																							
State		FL		NPW		W. Wipe O. Other																							
Zip		32256				PW. Potable Water																							
Attn.		Jeremy Parrish		Container Preservation Codes		NPW. Non-Potable Water																							
E-mail or Fax		Jeremy.M.Parrish@floridadep.gov				Sample Kit or Container Lot #																							
Tel		DEP-Overflowmicro@dep.state.fl.us																											
Project Name		BMAP 2		Parameters		Preservation Codes:																							
Project Number		RQ-2022-08-01-65				0. None 5. Na2S2O3																							
Project Location						1. H2SO4 6. Crushed Ice (4C)																							
Sampler Name/Signature		Kathryn Villinger				2. HNO3 7. C6H8O6																							
Sample # (Lab Use Only)		Sample Identification		Date Sampled		Time Sampled		Sample Matrix Code		Specific Cond. (Field)		Comp		Grab		E. Coli - Quantitray		Enterococci - Quantitray		Coliform, Fecal - MF 3 Dilutions		Turnaround Requested:		In Crushed Ice? (Yes) No		Cooler Temp: 0.5 °C		Sample Cont. Temp: 5.4 °C	
1		20030760		8/3/22		1305		NPA		232		✓		✓		✓		✓		✓		X Standard (10 Business Days)		No		0.5 °C		5.4 °C	
2		20030082		8/3/22		1315		✓		209		✓		✓		✓		✓		✓		Semi-Rush (3-5 Business Days)		No		0.5 °C		5.4 °C	
3		20030801		8/3/22		1340		✓		277.4		✓		✓		✓		✓		✓		Rush (1-2 Business Days)		No		0.5 °C		5.4 °C	
4		20030953		8/3/22		1355		✓		339.1		✓		✓		✓		✓		✓		Turnaround times are estimated & subject to change. Surcharges apply for all Rush samples.		No		0.5 °C		5.4 °C	
5																						Billing Information:		No		0.5 °C		5.4 °C	
6																						Invoice with Report		No		0.5 °C		5.4 °C	
7																						Invoice to Accounting		No		0.5 °C		5.4 °C	
8																								No		0.5 °C		5.4 °C	
9																								No		0.5 °C		5.4 °C	
0																								No		0.5 °C		5.4 °C	
Special Instructions:																													
Transfer Numbers		1-4																											
Relinquished By		J. Villinger																											
Date / Time		8/3/22 1435																											
Received By		J. Villinger																											
Date / Time		08/13/22 1435																											



Certification #E821059
Lab General Form 059, Rev. #1, Rev. Date: 02/07/22, Effective Date: 02/07/22.

Visit us online & order kits at: www.delllab.com



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

BASIN MANAGEMENT ACTION PLAN Field Sheet

July 2022

Meter
Passed End
of Day CCV

Yes / No

WIN Station Name:		BUTCHER PEN CR @ CONFEDERATE PT ROAD				Sample Date:		8/3/2022	
WIN / Field ID:	20030082	ORG ID:	21FLA	ENR:	-	Latitude:	30.26461		
County:	Duval	WBID:	2322	STREAM		3F	Longitude:	-81.73458	
Receiving Body of Water:		Cedar River				RQ-	2022-08-01-65		

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Jeremy Parrish		x		x	x
Katrin Villinger	x		x		

Sampling Equipment			
x	Sample Container		Carboy
x	Dipper	x	Van Dorn Heman
	Syringe		Pole
Syringe Lot#		Filter Lot#	
Secchi Equipment ID:			
Collection Method			
	Wading		Canoe/Kayak
	From Shore		Electric Motor
x	Bridge		Gasoline Motor
Depth Measured With		Meter	

Water Level:	Normal
Flow:	Flowing
Matrix:	Fresh
Tide Stage:	Rising
High Tide:	NA
Low Tide:	NA
Photos:	No
Meter ID:	Desi

Time Zone	Time	Total Depth (m)	Sample Depth (m)	DO (mg/L)	DO (%SAT)	Temp. (°C)	pH	Secchi Disk (m)	Sp COND (µmhos/cm)	Salinity (PPT _h)
EST	1315	0.946	0.3	3.76	48.7	28.6	7.11	0.4	209.3	0.1

Biological Samples Collected:		None								
SBIO Visit ID:	HA ID:	RPS ID:	Macrophyte ID:	LIMS Sample ID Entered Into The Macrophyte Module:						

Parameter Suite	Parameter Methods (LIMS Test Codes)			Preservation			
				Type	Lot#	Expiration Date	pH Check
Microbiology	E. coli			ICE			
Chlorophyll	Contract Lab	Diversified					
Physical/Aggregate Nutrients							
Filtered Nutrients							
Acid Preserved Nutrients							
Metals							
Organics (LC)				MCAA***			
Macroinvertebrates							
Organics (GC)							
Molecular							
Periphyton							
Phytoplankton							
BOD							
Other(s)							
Field Comments:	Partly cloudy						
Comments on COC:	Microbiology sample(s) submitted to contract laboratory.						
Relinquish Date:	08/03/2022	Signature:					

LIMS EVENT ID:	WIN Import ID:	
Enter Field Parameters, Verify Station ID In LIMS DMT:	QC Station ID, Field Parameters In LIMS DMT:	
Save Field Sheets on Network: KV 8/3/22 (Initials/Date)	Migrate Data to WIN: (Initials/Date)	



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

BASIN MANAGEMENT ACTION PLAN Field Sheet

July 2022

Meter
Passed End
of Day CCV

Yes / No

WIN Station Name:	LITTLE FISHWEIR AT OAK ST.				Sample Date:	8/3/2022	
WIN / Field ID:	20030953	ORG ID:	21FLA	ENR:	-	Latitude:	30.29467
County:	Duval	WBID:	2280A	STREAM	3F	Longitude:	-81.70919
Receiving Body of Water:	St Johns River Above Warren Bridge					RQ-	2022-08-01-65

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Jeremy Parrish		x		x	x
Katrin Villinger	x		x		

Sampling Equipment			
x	Sample Container	Carboy	
	Dipper	Van Dorn	
	Syringe	x Pole	NA
Syringe Lot#		Filter Lot#	
Secchi Equipment ID:			
Collection Method			
	Wading	Canoe/Kayak	
x	From Shore	Electric Motor	
		Gasoline Motor	
Depth Measured With Meter			

Water Level:	Normal
Flow:	Flowing
Matrix:	Fresh
Tide Stage:	Falling
High Tide:	NA
Low Tide:	NA
Photos:	No
Meter ID:	Desi

Time Zone	Time	Total Depth (m)	Sample Depth (m)	DO (mg/L)	DO (%SAT)	Temp. (°C)	pH	Secchi Disk (m)	Sp COND (µmhos/cm)	Salinity (PPT _h)
EST	1355	0.755	0.3	4.61	58.9	27.7	7.13	0.755	339.1	0.16
								VOB (s)		

Biological Samples Collected: None

SBIO Visit ID: HA ID: RPS ID: Macrophyte ID: LIMS Sample ID Entered Into The Macrophyte Module:

Parameter Suite	Parameter Methods (LIMS Test Codes)			Preservation			
				Type	Lot#	Expiration Date	pH Check
Microbiology	E. coli			ICE			
Chlorophyll	Contract Lab	Diversified					
Physical/Aggregate Nutrients							
Filtered Nutrients							
Acid Preserved Nutrients							
Metals							
Organics (LC)							
Macroinvertebrates							
Organics (GC)							
Molecular							
Periphyton							
Phytoplankton							
BOD							
Other(s)							
Field Comments:	Partly cloudy						
Comments on COC:	Microbiology sample(s) submitted to contract laboratory.						
Relinquish Date:	08/03/2022	Signature:					

LIMS EVENT ID: WIN Import ID:

Enter Field Parameters, Verify Station ID In LIMS DMT: QC Station ID, Field Parameters In LIMS DMT:

Save Field Sheets on Network: 8/3/22 (Initials/Date) Migrate Data to WIN: (Initials/Date)

(Initials/Date) (Initials/Date)

**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION**

BASIN MANAGEMENT ACTION PLAN Field Sheet

July 2022

Meter
Passed End
of Day CCV

Yes / No

WIN Station Name:	BIG FISHWEIR CR SF @ HAMILTON ST				Sample Date:	8/3/2022	
WIN / Field ID:	20030801	ORG ID:	21FLA	ENR:	-	Latitude:	30.29315
County:	Duval	WBID:	2280A	STREAM	3F	Longitude:	-81.72209
Receiving Body of Water:	St Johns River Above Warren Bridge					RQ-	2022-08-01-65

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Jeremy Parrish		x		x	x
Katrin Villinger	x		x		

Sampling Equipment			
x	Sample Container	Carboy	
	Dipper	Van Dorn	
	Syringe	x	Pole Na
Syringe Lot#		Filter Lot#	
Secchi Equipment ID:			
Collection Method			
	Wading	Canoe/Kayak	
x	From Shore	Electric Motor	
		Gasoline Motor	
Depth Measured With Meter			

Water Level:	Normal
Flow:	Flowing
Matrix:	Fresh
Tide Stage:	Rising
High Tide:	NA
Low Tide:	NA
Photos:	No
Meter ID:	Desi

Time Zone	Time	Total Depth (m)	Sample Depth (m)	DO (mg/L)	DO (%SAT)	Temp. (°C)	pH	Secchi Disk (m)	Sp COND (µmhos/cm)	Salinity (PPT _h)
EST	1340	0.35	0.15	6.08	76.8	27	7.4	0.35	277.6	0.13
								VOB (s)		

Biological Samples Collected: None

SBIO Visit ID: HA ID: RPS ID: Macrophyte ID: LIMS Sample ID Entered Into The Macrophyte Module:

Parameter Suite	Parameter Methods (LIMS Test Codes)			Preservation			
				Type	Lot#	Expiration Date	pH Check
Microbiology	E. coli			ICE			
Chlorophyll	Contract Lab	Diversified					
Physical/Aggregate Nutrients							
Filtered Nutrients							
Acid Preserved Nutrients							
Metals							
Organics (LC)							
Macroinvertebrates							
Organics (GC)							
Molecular							
Periphyton							
Phytoplankton							
BOD							
Other(s)							
Field Comments:	Partly cloudy						
Comments on COC:	Microbiology sample(s) submitted to contract laboratory.						
Relinquish Date:	08/03/2022	Signature:					

LIMS EVENT ID: WIN Import ID:

Enter Field Parameters, Verify Station ID in LIMS DMT: QC Station ID, Field Parameters in LIMS DMT:

Save Field Sheets on Network: 8/3/22 KV (Initials/Date) Migrate Data to WIN: (Initials/Date)

(Initials/Date) (Initials/Date)



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

BASIN MANAGEMENT ACTION PLAN Field Sheet

July 2022

Meter
Passed End
of Day CCV

Yes / No

WIN Station Name:		BUTCHER PEN CR AT WESCONNETT				Sample Date:		8/3/2022	
WIN / Field ID:	20030760	ORG ID:	21FLA	ENR:	-	Latitude:	30.25983		
County:	Duval	WBID:	2322	STREAM	3F	Longitude:	-81.74019		
Receiving Body of Water:		Cedar River				RQ-	2022-08-01-65		

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Jeremy Parrish		x		x	x
Katrin Villinger	x		x		

Sampling Equipment			
x	Sample Container	Carboy	
	Dipper	Van Dorn	
	Syringe	x Pole	Na
Syringe Lot#		Filter Lot#	
Secchi Equipment ID:			
Collection Method			
	Wading	Canoe/Kayak	
	From Shore	Electric Motor	
x	Bridge	Gasoline Motor	
Depth Measured With		Meter	

Water Level:	Normal
Flow:	Flowing
Matrix:	Fresh
Tide Stage:	Rising
High Tide:	
Low Tide:	
Photos:	No
Meter ID:	Desi

Time Zone	Time	Total Depth (m)	Sample Depth (m)	DO (mg/L)	DO (%SAT)	Temp. (°C)	pH	Secchi Disk (m)	Sp COND (µmhos/cm)	Salinity (PPT _h)
EST	1305	0.94	0.3	6.07	75.8	26.8	7.4	0.94	232	0.11
								VOB (s)		

Biological Samples Collected:		None								
SBIO Visit ID:	HA ID:	RPS ID:	Macrophyte ID:	LIMS Sample ID Entered Into The Macrophyte Module:						

Parameter Suite	Parameter Methods (LIMS Test Codes)			Preservation			
				Type	Lot#	Expiration Date	pH Check
Microbiology	E. coli			ICE			
Chlorophyll	Contract Lab	Diversified					
Physical/Aggregate Nutrients							
Filtered Nutrients							
Acid Preserved Nutrients							
Metals							
Organics (LC)					MCAA***		
Macroinvertebrates							
Organics (GC)							
Molecular							
Periphyton							
Phytoplankton							
BOD							
Other(s)							
Field Comments:	Partly cloudy						
Comments on COC:	Microbiology sample(s) submitted to contract laboratory.						
Relinquish Date:	08/03/2022	Signature:					

LIMS EVENT ID: _____ WIN Import ID: _____

Enter Field Parameters, Verify Station ID In LIMS DMT: _____ QC Station ID, Field Parameters In LIMS DMT: _____

Save Field Sheets on Network: KV 8/3/22 _____ Migrate Data to WIN: _____

(Initials/Date) (Initials/Date)