

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: YSI satch

RQ: 2021-06-14-08

Project: SMP Palatka

- 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 5/12/21

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	6/15/21	727	18.9	759.4	9.3	9.3	100.4	—	1.028	P/F	D/F
ICV	J	6/15/21	729	19.0	759.3	9.3	9.28	100.0	—	1.028	P/F	D/F
CCV	J Pansh	6/15/21	1502	21.9	758.2	8.8	8.98	101.9	—	—	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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	J Pansh	6/15/21	730	201222B	1/22	1000	1000	P/F	D/F
ICV	J	J	731	211222A	1/22	100	99.7	P/F	D/F
CCV	J Pansh	6/15/21	1504	2104260	5/22	20000	19935	P/F	D/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	6/15/21	732	2012E34	12/22	7.	19.8	7.02	225	P/F	D/F
Calibr.	J	J	735	2106059	8/23	4.	19.8	4.00	149.2	P/F	D/F
Calibr.	J	J	736	2103E33	9/22	10.	19.7	10.00	200.3	P/F	D/F
ICV	J	J	739	2103054	3/23	4.	19.8	4.00	140.4	P/F	D/F
CCV	J Pansh	6/15/21	1507	2103F53	9/22	10.	20.7	10.01	201.5	P/F	D/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: _____; 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	6/15/21	745	0.00	0.00	P/F	D/F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS:



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2020

Meter Passed End
of Day CCV
☒ Yes / ☐ No

WIN Station Name: mill Branch @ Old San Mateo Rd Date: 06/15/2021
(mm/dd/yyyy)

WIN/ Field ID: 20030577 WBID: 2592 Latitude: 29.646722
(Decimal Degrees)

County: Putnam ORG ID: 21FLA Longitude: -81.593306
(Decimal Degrees)

Receiving Body of Water: _____ RQ-2020-06-14-08

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
J. Parrish		X		X	X
K. McDonald	X		X		X

Sampling Equipment	
☒ Sample Container	☒ Van Dorn <u>Herman</u>
☐ Syringe	☐ Pole
☐ Dipper	☐ Other _____
Depth Measured with <u>YSI</u>	
Equipment ID <u>ortho #44</u>	
Collection Method	
☐ Wading	☐ Canoe/Kayak
☐ From Shore	☐ Electric Motor
☒ Other <u>Bridge</u>	☐ Gasoline Motor

Water Level: Dry/ Pooled/ Low / <u>Normal</u> / High / Flooded		Meter ID# <u>Pro DSS Stitch</u>	
Photos: Yes / <u>No</u>	Flow: No Flow / <u>Flowing</u> / NA	Tide: Rising/ Falling/ Slack/ <u>NA</u>	Tide Times: High _____ Low _____
Biological Samples Collected: <u>None</u> HA SCI RPS Algae ID LVS LVI Other: _____			
SBIO ID Numbers:	SBIO-ID: _____	HA-ID: _____	RPS-ID: _____
Macrophyte-ID: _____		LIMS#: _____	
Notes: _____			

Duplicate Sample

Time Zone: EST CEN Time: _____	Field ID: _____ (WIN ID_DUP)
WIN DMT Activity ID: _____	

Blank

Time Zone: EST CEN Time: _____	Field ID: _____ (Blank Type_DDMYYYY)
DI Source: _____	Location: _____
☐ Field Blank ☐ Equipment Blank ☐ Field Cleaned Equipment Blank	Equipment ID: _____

LIMS EVENT ID: _____ WIN Import ID: _____

Enter Field Parameters, Verify Station ID in LIMS DMT: _____ (Initials/Date) QC Station ID, Field Parameters in LIMS DMT: BD 07/07/2021 (Initials/Date)

Scan/Save Field Sheets _____ (Initials/Date) Migrate Data to WIN: _____ (Initials/Date) Verify Data in WIN: _____ (Initials/Date)



RQ-2020-06-14-08

Customer: 21 FLA

Project ID: SMP LSR Palatka

Collected By: J. Parrish + K. McDonald

Field Report Prepared By: K. McDonald

Sampling Agency: FDEP NEROC

WIN ID/Field ID:



20030577

MILL BR. @ OLD SAN MATEO RD.

Comments:

Code R → 2.13" rain in past 48 hrs.

Matrix: ☒ Fresh / ☐ Marine

(Check one)

☒ GRAB☐ COMPOSITE

Date	Time	DO (mg/L)	DO (%SAT)	Temp. (C°)	pH	Sample Depth (m)	Secchi Disk (m)	Total Depth (m)	Sp COND (µmhos/cm)	Salinity (PPT)
6/15/21	1130 (EST) CST	5.40	64.8	24.1	7.12	0.2	0.405 ☒ VOB (S)	0.405	2500	1.29

Cental Lab please use top row for login purposes

EST / CST										
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Parameter Suite	Parameter Methods	Preservation	pH Check	# Bottles sent to Lab	Bottle Group
Preserved Nutrients (P-500ML)	☒ W-NH3 / ☒ W-NO2NO3 / ☒ W-TKN / ☒ W-TOC / ☒ W-S-A-TP	☒ Ice ☒ H2SO4*	☒ <2	1	A
	Lot # SA0353110 Exp: 1/11/22				
Metals (P-500ML)	☒ W-ICPMS ☒ W-ICP ☒ W-HARD	☒ Ice ☒ HNO3*	☒ <2	1	A
	Lot # NA0344060 Exp: 1/4/22				
Filtered Nutrients (P125ML)	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice		1	A
	Filter Lot # R0NB35407 Syringe Lot #				
Chlorophyll (BP-1L)	☒ CHLSUITE-W	☒ Ice		1	A
Physical/Aggregate (Fresh) (P-1L)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CL-IC / W-COLOR / W-SO4-IC / W-TDS	☒ Ice		1	A
Physical/Aggregate (Marine) (P-1L)	☐ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates (PJ-2L)	☐ MI-FW-QLDC	☐ Formalin			
Periphyton (PT-50ML)	☐ ALGAE-ID	☐ Ice			
Microbiology (Contract Lab Bottle)	☒ E Coli ☐ F Coli ☐ Enterococci ☒ Contract Lab	☒ Ice		1 to ALS	A
Molecular (QPCR-P-500ML)	☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-DG3 ☐ PCR-GULL2 ☐ PCR-GFD ☐ See Notes	☐ Ice			
Tracers (BG-500ML)	☐ W-E8321-DI ☐ W-E8321-MS	☐ Ice			
Pesticides (BG-500ML) (BG-1L)	☒ W-E8321-DI ☒ W-E8321-MS ☒ W-PSNP-TQ ☒ W-CT-CL-R ☒ W-PCL-CL-R ☒ W-CARB-AA (5 ml of MCAA** Buffer Solution)	☒ Ice		10	A
	KM				

Name:

Signature:

Date:

Kelly A McDonald

Kelly A McDonald

6/15/21

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution



CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

9143 Philips Highway, Suite 200 Jacksonville, FL 32256 / Ph(904) 739-2277 / FAX (904) 739-2011

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SR #

ALS Contact: Mandy Sullivan

[illegible]

Florida Department of Environmental Protection

Central Laboratory Submittal Form

LSJR Palatka

Customer: NE-DIST

Requester: Jeremy M. ParrishField Report Prepared By: K. McDonald

Project ID: SMP

Collected By: J. Parrish + K. McDonaldSampling Agency: FDEP NEROC

Location		☐ Comp ☒ Grab		Collection (comp begin or grab)		☒ Eastern ☐ Central		Composite end		Bottle Group(s)	
Field		Date		Time		Date		Time		Date	
WIN ID/Field ID:		20030557		Date		Time		Date		Time	
WIN		MOCCASSIN BRANCH AT WINFORD MASTERS RD		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		Total Res. Chlorine		Bottle Group(s)	
Latitu		☐ dd ☐ dms		Temp (C)		pH		Sample Depth		Sp. Conductance	
		Salinity (ppt)		Comments							
		0.90		code R							
Location		☐ Comp ☒ Grab		Collection (comp begin or grab)		☒ Eastern ☐ Central		Composite end		Bottle Group(s)	
Field		Date		Time		Date		Time		Date	
WIN ID/Field ID:		G2NE1217		Date		Time		Date		Time	
WIN		MOCCASSIN BRANCH upstream of SR 207		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		Total Res. Chlorine		Bottle Group(s)	
Latitu		☐ dd ☐ dms		Temp (C)		pH		Sample Depth		Sp. Conductance	
		Salinity (ppt)		Comments							
		0.84		code R							
Location		☐ Comp ☒ Grab		Collection (comp begin or grab)		☒ Eastern ☐ Central		Composite end		Bottle Group(s)	
Field		Date		Time		Date		Time		Date	
WIN ID/Field ID:		G2NE0001		Date		Time		Date		Time	
WIN		Unnamed Ditch to Deep Creek at Revels Farm		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		Total Res. Chlorine		Bottle Group(s)	
Latitu		☐ dd ☐ dms		Temp (C)		pH		Sample Depth		Sp. Conductance	
		Salinity (ppt)		Comments							
		1.54		code R							
Location		☐ Comp ☒ Grab		Collection (comp begin or grab)		☒ Eastern ☐ Central		Composite end		Bottle Group(s)	
Field		Date		Time		Date		Time		Date	
WIN ID/Field ID:		G2NE1211		Date		Time		Date		Time	
WIN		Unnamed Ditch 250m upstream of Deep Cr.		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		Total Res. Chlorine		Bottle Group(s)	
Latitu		☐ dd ☐ dms		Temp (C)		pH		Sample Depth		Sp. Conductance	
		Salinity (ppt)		Comments							
		1.54		code R							

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
K. McDonald	6/15/21	FedEx	2		

Florida Department of Environmental Protection

Central Laboratory Submittal Form

LSJR Palatka

Customer: NE-DIST

Project ID: SMP

Requester: Jeremy M. Parrish

Field Report Prepared By: K. McDonald

Collected By: J. Parrish, K. McDonald

Sampling Agency: FDEP NERO

Location	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 6/15/21 Time 1050	☒ Eastern ☐ Central	Composite end Date — Time —	Bottle Group(s) (See pg 2)
Field I WIN ID/Field ID:  G2NE1143	Matrix (type, e.g., Salt, Fresh, etc) Fresh	Diss. Oxygen 4.19	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) —	C
W Cow Creek a Putnam County Blvd.	Temp (C) 24.3	pH 7.37	Sample Depth 0.3	Sp. Conductance (umho/cm) 1463	
La ☐ dms	☐ dd ☐ dms	Salinity (ppt) 0.73	Comments code R		
Location	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 6/15/21 Time 1100	☒ Eastern ☐ Central	Composite end Date — Time —	Bottle Group(s)
Field I WIN ID/Field ID:  20030844	Matrix (type, e.g., Salt, Fresh, etc) Fresh	Diss. Oxygen 4.33	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) —	C
WIN/S Cow creek @ E River RD	Temp (C) 23.8	pH 6.81	Sample Depth 0.3	Sp. Conductance (umho/cm) 1599	
Latitud ☐ dms	☐ dd ☐ dms	Salinity (ppt) 0.80	Comments code R		
Location	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 6/15/21 Time 1110	☒ Eastern ☐ Central	Composite end Date — Time —	Bottle Group(s)
Field I WIN ID/Field ID:  20030681	Matrix (type, e.g., Salt, Fresh, etc) Fresh	Diss. Oxygen 6.36	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) —	B
WIN/S MILL BRANCH @ McCORMICK RD	Temp (C) 24.0	pH 7.24	Sample Depth 0.08	Sp. Conductance (umho/cm) 1729	
Latitud ☐ dms	☐ dd ☐ dms	Salinity (ppt) 0.87	Comments code R		
Location	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 6/15/21 Time 1130	☒ Eastern ☐ Central	Composite end Date — Time —	Bottle Group(s)
Field I WIN ID/Field ID:  20030577	Matrix (type, e.g., Salt, Fresh, etc) Fresh	Diss. Oxygen 5.40	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) —	A
WIN/S MILL BR. @ OLD SAN MATEO RD.	Temp (C) 24.1	pH 7.12	Sample Depth 0.2	Sp. Conductance (umho/cm) 2500	
Latitud ☐ dms	☐ dd ☐ dms	Salinity (ppt) 1.29	Comments code R		

Relinquished By: K. McDonald	Date/Time 6/15/21 1100	Shipping Method FedEx	Number of Coolers Shipped: 2	Received By:	Date/Time
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Group: A	Bottle Type:	P-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS						
Group: A	Bottle Type:	BP-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	CHLSUITE-W						
Group: A	Bottle Type:	P-250ML-WI-THI	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1 to ALS
	NE-ALS-ECQ						
Group: A	Bottle Type:	BG-500ML	# of Bottles: 1	Preservative:	CH2CICOOH Pre-Preserved	Enter Number of Bottles Sent to Lab	1
	W-CARB-AA						
Group: A	Bottle Type:	BG-500ML	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	4
	W-CT-CI-R W-PCL-TQ-R						
Group: A	Bottle Type:	BG-500ML	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	W-E8321-DI W-E8321-MS						
Group: A	Bottle Type:	P-500ML	# of Bottles: 1	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	1
	W-HARD W-ICP W-ICPMS						
Group: A	Bottle Type:	P-500ML	# of Bottles: 1	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	1
	W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC						
Group: A	Bottle Type:	P-125ML	# of Bottles: 1	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	1
	W-PO4-F						

Group: A	Bottle Type:	BG-1L	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	4
W-PSNP-TQ							
Group: B	Bottle Type:	P-250ML-WI-THI	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1 to ALS
NE-ALS-ECQ							
Group: B	Bottle Type:	BG-500ML	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
W-E8321-DI							
W-E8321-MS							
Group: B	Bottle Type:	P-500ML	# of Bottles: 1	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	1
W-HARD							
W-ICP							
W-ICPMS							
Group: B	Bottle Type:	BG-1L	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	X km 2
W-PSNP-TQ							
Group: C	Bottle Type:	P-250ML-WI-THI	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	6 to ALS
NE-ALS-ECQ							