

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 @ McCormick Rd Date: 06/15/21
(mm/dd/yyyy)

WIN/ Field ID: 20030681 WBID: 2592 Latitude: 29.651305
(Decimal Degrees)

County: Putnam ORG ID: 21FLA Longitude: -81.582888
(Decimal Degrees)

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

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
<u>Jeremy Parrish</u>		X		X	X
<u>Kelly McDonald</u>	X		X		

Sampling Equipment	
☒ Sample Container	☐ Van Dorn
☐ Syringe	☐ Pole
☐ Dipper	☐ Other _____
Depth Measured with <u>YSI</u>	
Equipment ID _____	
Collection Method	
☒ Wading	☐ Canoe/Kayak
☐ From Shore	☐ Electric Motor
☐ Other _____	☐ 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_DDM/yyyy)
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: _____ QC Station ID, Field Parameters in LIMS DMT: BD 07/07/2021
(Initials/Date) (Initials/Date)

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



RQ-2020- 06-14-08
 Customer: 2IFLA
 Project ID: SMP LSSR Palatka

Collected By: Kelly McDonald + Jeremy Parrish
 Field Report Prepared By: Kelly McDonald
 Sampling Agency: FDEP NE ROC

WIN ID/Field ID:



20030681

MILL BRANCH @ McCORMICK RD

Comments:

Code R for recent rain
 2.19 inches 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 (PPTH)
6/15/21	1110	6.36	76.0	24.0	7.24	0.08	0.15	0.15	1729	0.87
	EST / CST						☒ VOB (S)			

Cental Lab please use top row for login purposes

	EST / CST									

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 Lot # _____ Exp: _____	☐ Ice ☐ H2SO4* ☐ <2			
Metals (P-500ML)	☒ W-ICPMS ☒ W-ICP ☒ W-HARD Lot # <u>N A0344060</u> Exp: <u>1/4/22</u>	☒ Ice ☒ HNO3* ☒ <2		<u>1</u>	<u>B</u>
Filtered Nutrients (P125ML)	☐ W-PO4-F ☐ Field Filtered 0.45 µm Filter Filter Lot # _____ Syringe Lot # _____	☐ Ice			
Chlorophyll (BP-1L)	☐ CHLSUITE-W	☐ Ice			
Physical/Aggregate (Fresh) (P-1L)	☐ Alkalinity / W-F / W-TSS / TURBIDITY / W-CHC / W-COLOR / W-SO4-IC / W-TDS	☐ Ice			
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		<u>1 to ALS</u>	<u>B</u>
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		<u>1</u>	<u>B</u>
Pesticides (BG-500ML) (BG-1L)	☐ W-E8321-DI ☐ WE8321-MS ☒ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-PCL-SQ-R ☐ W-CARB-AA (5 ml of MCAA** Buffer Solution)	☒ Ice		<u>2</u>	<u>B</u>

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

Page 1 of 1

SR #

ALS Contact: Mandy Sullivan

Client Name						Project Number															
FDEP-NE ROC						RQ-2021-	<u>06-14-08</u>														
Report To						Report CC															
Dep-Overflowmicro@dep.state.fl.us																					
Company/Address																					
8800 Baymeadows Way W																					
Jacksonville, Fl 32256																					
Phone #						FAX #															
904-256-1700																					
Sampler's Signature <i>Kelly McDonald</i>						Sampler's Printed Name Kelly McDonald															
ANALYSIS REQUESTED (Include Method Number and Container Preservative)						Preservative Key															
						0. None															
						1. HCL															
						2. HNO ₃															
						3. H ₂ SO ₄															
						4. NaOH															
						5. Zn Acetate															
						6. MeOH															
						7. NaHSO ₄															
						8. ICE															
						REMARKS															
CLIENT SAMPLE ID		LAB ID		SAMPLING DATE TIME	Matrix																
20030557				6/15 0905	SW	1	X														
G2 NE 1217				↓ 0920	↓	↓	↓														
G2 NE 0001				↓ 1000	↓	↓	↓														
G2 NE 1211				↓ 1015	↓	↓	↓														
G2 NE 1143				↓ 1050	↓	↓	↓														
20030844				↓ 1100	↓	↓	↓														
20030681				↓ 1110	↓	↓	↓														
20030577				↓ 1130	↓	↓	↓														
Special Instructions/Comments: Email Report to: Dep-Overflowmicro@dep.state.fl.us						TURNAROUND REQUIREMENTS						REPORT REQUIREMENTS				INVOICE INFORMATION					
0.3						RUSH (SURCHARGES APPLY) ☒ STANDARD						I. Results Only II. Results + QC Summaries (LCS, DUP, MS/MSD as required) III. Results + QC and Calibration Summaries IV. Data Validation Report with Raw Data				P.O.# B10739					
						REQUESTED FAX DATE N/A						Edata Yes No				Bill to:					
						REQUESTED REPORT DATE N/A															
Relinquished By Signature <i>Kelly McDonald</i> Printed Name KELLY A McDONALD Firm FDEP NE ROC Date/Time 6/15/21 1400		Received By Signature <i>[Signature]</i> Printed Name Catherine Weigand Firm ALS Date/Time 6/15/21 1404		Relinquished By Signature Printed Name Firm Date/Time 		Received By Signature Printed Name Firm Date/Time 		Relinquished By Signature Printed Name Firm Date/Time 		Received By Signature Printed Name Firm Date/Time 											

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) Date <u>6/15/21</u> Time <u>0905</u>	<u>Eastern</u> Central	Composite end Date <u>—</u> Time <u>—</u>	Bottle Group(s) (See pg 2)	
Field	WIN ID/Field ID:  20030557	Matrix (type, e.g., Salt, Fresh, etc) <u>Fresh</u>	Diss. Oxygen <u>5.13</u> ☒ mg/L <u>60 km</u> ☐ % sat	Total Res. Chlorine (mg/L) <u>—</u>	C	
WIN	MOCCASSIN BRANCH AT WINFORD MASTERS RD	Temp (C) <u>23.6</u>	pH <u>7.13</u>	Sample Depth <u>0.3</u> ☐ ft ☒ m		Sp. Conductance (umho/cm) <u>1784</u>
Latitu	☐ dms	Salinity (ppt) <u>0.90</u>	Comments <u>code R</u>			
Location	☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>6/15/21</u> Time <u>0920</u>	<u>Eastern</u> Central	Composite end Date <u>—</u> Time <u>—</u>	Bottle Group(s)	
Field	WIN ID/Field ID:  G2NE1217	Matrix (type, e.g., Salt, Fresh, etc) <u>Fresh</u>	Diss. Oxygen <u>6.04</u> ☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) <u>—</u>	C	
WIN	MOCCASSIN BRANCH upstream of SR 207	Temp (C) <u>23.5</u>	pH <u>7.29</u>	Sample Depth <u>0.3</u> ☐ ft ☒ m		Sp. Conductance (umho/cm) <u>1659</u>
La	☐ dms	Salinity (ppt) <u>0.84</u>	Comments <u>code R</u>			
Location	☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>6/15/21</u> Time <u>1000</u>	<u>Eastern</u> Central	Composite end Date <u>—</u> Time <u>—</u>	Bottle Group(s)	
Field	WIN ID/Field ID:  G2NE0001	Matrix (type, e.g., Salt, Fresh, etc) <u>Fresh</u>	Diss. Oxygen <u>7.24</u> ☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) <u>—</u>	C	
WIN	Unnamed Ditch to Deep Creek at Revels Farm	Temp (C) <u>25.0</u>	pH <u>7.45</u>	Sample Depth <u>0.03</u> ☐ ft ☒ m		Sp. Conductance (umho/cm) <u>2959</u>
Latitu	☐ dms	Salinity (ppt) <u>1.54</u>	Comments <u>code R</u>			
Location	☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>6/15/21</u> Time <u>1015</u>	<u>Eastern</u> Central	Composite end Date <u>—</u> Time <u>—</u>	Bottle Group(s)	
Field	Field Id/WIN station  G2NE1211	Matrix (type, e.g., Salt, Fresh, etc) <u>Fresh</u>	Diss. Oxygen <u>7.32</u> ☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) <u>—</u>	C	
WIN	Unnamed Ditch 250m upstream of Deep Cr.	Temp (C) <u>24.5</u>	pH <u>7.61</u>	Sample Depth <u>0.02</u> ☐ ft ☒ m		Sp. Conductance (umho/cm) <u>2963</u>
Latitu	STORET: ☐ dms	Salinity (ppt) <u>1.54</u>	Comments <u>code R</u>			

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

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

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
K. McDonald	6/15/21 1100	FedEx	2		

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							