

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:

517C4

RQ:

2019-07-22-28

Project:

Hastings

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

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.	Brian Davis	7/22/19	816	24.0	758	8.4	8.37	100.9	/	/	P/F	L/F
ICV			817	24.2	758	8.47	8.36	99.6	/	/	P/F	L/F
CCV	J Parnish	7/22/19	1355	25.3	758	8.2	8.06	98.5	-	-	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.	B-D	7/22/19	820	290430A	5/20	1000	1003	P/F	L/F
ICV			821	147430	12/19	147	153.1	P/F	L/F
CCV	J Parnish	7/22/19	1342	719820	12/19	24820	24774	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.	B-D	7/22/19	824	290454	3/21	7.0	25.0	7.0	-59.2	P/F	L/F
Calibr.			827	2904800	3/21	4.0	25.1	4.01	-120.4	P/F	L/F
Calibr.			829	2901851	7/20	10.0	25.0	10.0	-233.0	P/F	L/F
ICV			831	290454	3/21	7.0	25.0	7.05	-59.6	P/F	L/F
CCV	J Parnish	7/22/19	1345	2901851	7/20	10.0	24.6	9.99	-234.0	P/F	L/F
CCV										P/F	L/F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 $\pm$ 50;

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

mV pH 10 Range -180 $\pm$ 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	B-D	7/22/19	833	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:



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

WIN Station Name: UNNAMED DITCH TO DEEP CREEK AT REVELS FARM

Date: 07/22/2019

(mm/dd/yyyy)

WIN/ Field ID: G2NE0001

WBID: 2563

Latitude: 29.69883

(Decimal Degrees)

County: Putnam

ORG ID: 21FLA

Longitude: -81.46319

(Decimal Degrees)

Receiving Body of Water: SJR

RQ-2019- ~~01-07-44~~ 07-22-28

Sampling Team Members						WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment									
<u>J. Parnish</u> <u>B. Davis</u>											☒ Sample Container	☐ Van Dorn	☒ Pole							
											☐ Carboy	☐ Syringe								
											☐ Dipper	☐ Other								
Depth Measured with _____						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>57126</u>					Matrix: <u>Fresh</u> / Marine / DI									
Photos: Yes / <u>No</u>						Flow: No Flow / Intestinal / <u>Flowing</u> / NA					Tide: Rising/ Falling/ Slack/ <u>NA</u>					Tide Times: High Low				
Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPT)	Sp COND (umhos/cm)	Temp. (C°)										
EST	<u>1005</u>	<u>0.3</u>	<u>0.2</u>	<u>10 B</u>	<u>6.09</u>	<u>75.8</u>	<u>7.06</u>	<u>0.88</u>	<u>1741</u>	<u>26.3</u>										
CEN				<u>(s)</u>																
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#:																				
Parameter Suite		Parameter Methods					Preservation		Lot#		Expiration		pH Check							
Preserved Nutrients		☐ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP					☐ Ice ☐ H2SO4						☐ <2							
Metals		☐ W-ICPMS ☐ W-ICP					☐ Ice ☐ HNO3						☐ <2							
Filtered Nutrients		☐ W-PO4-F ☐ Field Filtered 0.45 um Filter					☐ Ice													
Chlorophyll		☐ CHLSUITE-W					☐ Ice													
Physical/Aggregate (Fresh)		☐ Alkalinity / W-F / W-TSS / TURBIDITY / W-CL-IC / W-COLOR / W-SO4-IC / W-TDS					☐ Ice													
Physical/Aggregate (Marine)		☐ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY					☐ Ice													
Macroinvertebrates		☐ MI-FW-QLDC					☐ Formalin													
Periphyton		☐ ALGAE-ID					☐ Ice													
Microbiology		☒ E Coli ☐ F Coli ☐ Enterococci					☒ Ice													
Molecular		☐ PCR-FILTER ☐ PCR-BacR ☐ PCR-GULL2					☐ Ice													
		☐ PCR-HF183 ☐ PCR-DG3 ☐ PCR-GFD																		
Tracers		☐ W-E8321-DI ☐ W-E8321-MS					☐ Ice													
Pesticides		☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-E8321-DI					☐ Ice													
		☐ W-PCL-SQ-R ☐ WE8321-MS ☐ W-CARB-AA																		
Phytoplankton		☐ DTY-QN-C ☐ PKD-QN-C																		
Notes:																				
WIN ID/Field ID: <u>G2NE0001</u>																				
UNNAMED DITCH TO DEEP CREEK AT REVELS FARM																				
Signature: <u>J. Parnish</u>												Date: <u>7/22/19</u>								

LIMS EVENT ID: _____ WIN Import ID: _____

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

Scan/Save Field Sheets _____ Migrate Data to WIN: _____ Verify Data in WIN: _____

(Initials/Date) (Initials/Date) (Initials/Date)



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

WIN Station Name: HASTINGS OUTLET AT SR 207

Date: 7/22/19
(mm/dd/yyyy)

WIN/ Field ID: 20030558

WBID: 2569

Latitude: 29.707333

(Decimal Degrees)

County: Putnam

ORG ID: 21FLA

Longitude: -81.535583

(Decimal Degrees)

Receiving Body of Water: _____

RQ-2019- 07-22-28

Sampling Team Members						WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment				
<u>Plumish Davis</u>						☒	☒	☐	☐	☐	☒ Sample Container	☐ Van Dorn	☒ Pole		
											☐ Carboy	☐ Syringe			
											☐ Dipper	☐ Other			
											Depth Measured with _____				
											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>5712</u>				Matrix: <u>Fresh</u> / Marine / DI					
Photos: Yes / <u>No</u>						Flow: No Flow / Intestinal / <u>Flowing</u> / NA				Tide: Rising/ Falling/ Slack/ <u>NA</u>					
Tide Times: High _____ Low _____															
Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPT)	Sp COND (µmhos/cm)	Temp. (C°)					
EST	1040	0.3	0.5	0.5	5.22	63.5	7.34	0.31	640	25.3					
CEN				S											
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#:															
Parameter Suite		Parameter Methods					Preservation		Lot#	Expiration	pH Check				
Preserved Nutrients		☐ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP					☐ Ice ☐ H2SO4				☐ <2				
Metals		☐ W-ICPMS ☐ W-ICP					☐ Ice ☐ HNO3				☐ <2				
Filtered Nutrients		☐ W-PO4-F ☐ Field Filtered 0.45 µm Filter					☐ Ice								
Chlorophyll		☐ CHL-SUITE-W					☐ Ice								
Physical/Aggregate (Fresh)		☐ Alkalinity / W-F / W-TSS / TURBIDITY / W-CL-IC / W-COLOR / W-SO4-IC / W-TDS					☐ Ice								
Physical/Aggregate (Marine)		☐ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY					☐ Ice								
Macroinvertebrates		☐ MI-FW-QLDC					☐ Formalin								
Periphyton		☐ ALGAE-ID					☐ Ice								
Microbiology		☒ E Coli ☐ F Coli ☐ Enterococci					☐ Ice								
Molecular		☐ PCR-FILTER ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-HF183 ☐ PCR-DG3 ☐ PCR-GFD					☐ Ice								
Tracers		☐ W-E8321-DI ☐ W-E8321-MS					☐ Ice								
Pesticides		☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-E8321-DI ☐ W-PCL-SQ-R ☐ WE8321-MS ☐ W-CARB-AA					☐ Ice								
Phytoplankton		☐ DTY-QN-C ☐ PKD-QN-C													

Notes:

WIN ID/Field ID:



20030558

HASTINGS OUTLET AT SR 207

Signature: [Signature]

Date: 7/22/19

LIMS EVENT ID: _____

WIN Import ID: _____

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

QC Station ID, Field Parameters In LIMS DMT: _____

Scan/Save Field Sheets _____

Migrate Data to WIN: _____

Verify Data In WIN: _____

(Initials/Date)

(Initials/Date)

(Initials/Date)



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

WIN Station Name: COW CREEK @ E RIVER RD

Date: 7/22/19
(mm/dd/yyyy)

WIN/ Field ID: 20030844

WBID: 2583

Latitude: 29.67879

(Decimal Degrees)

County: Putnam

ORG ID: 21FLA

Longitude: 81.6214

(Decimal Degrees)

Receiving Body of Water: SJR

RQ-2019- 07-22-28

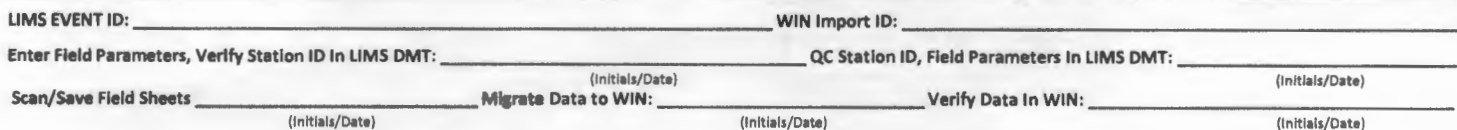
Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment									
<u>Plumch</u> <u>B Davis</u>					☒	☒	☐	☐	☐	☒ Sample Container	☐ Van Dorn	☒ Pole							
										☐ Carboy	☐ Syringe								
										☐ Dipper	☐ Other								
Depth Measured with					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>5174</u>					Matrix: <u>Fresh</u> / Marine / DI									
Photos: Yes / <u>No</u>					Flow: No Flow / Intestinal / <u>Flowing</u> / NA					Tide: Rising / Falling / Slack / <u>NA</u>					Tide Times: High / Low				
Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPT)	Sp COND (µmhos/cm)	Temp. (C°)									
EST	<u>1200</u>	<u>0.6</u>	<u>0.3</u>	<u>VOB</u>	<u>1.49</u>	<u>18.6</u>	<u>7.07</u>	<u>0.53</u>	<u>1068</u>	<u>26.7</u>									
CEN																			
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#:																			
Parameter Suite		Parameter Methods					Preservation		Lot#		Expiration		pH Check						
Preserved Nutrients		☐ W-NH3 / ☐ W-NO2NO3 / ☐ W-TKN / ☐ W-TOC / ☐ W-S-A-TP					☐ Ice ☐ H2SO4						☐ <2						
Metals		☐ W-ICPMS ☐ W-ICP					☐ Ice ☐ HNO3						☐ <2						
Filtered Nutrients		☐ W-PO4-F ☐ Field Filtered 0.45 µm Filter					☐ Ice												
Chlorophyll		☐ CHLSUITE-W					☐ Ice												
Physical/Aggregate (Fresh)		☐ Alkalinity / ☐ W-F / ☐ W-TSS / ☐ TURBIDITY / ☐ W-Cl-IC / ☐ W-COLOR / ☐ W-SO4-IC / ☐ W-TDS					☐ Ice												
Physical/Aggregate (Marine)		☐ Alkalinity / ☐ W-BR-IC / ☐ W-F / ☐ W-TSS / ☐ TURBIDITY					☐ Ice												
Macroinvertebrates		☐ MI-FW-QLDC					☐ Formalin												
Periphyton		☐ ALGAE-ID					☐ Ice												
Microbiology		☒ E Coli ☐ F Coli ☐ Enterococci					☒ Ice												
Molecular		☐ PCR-FILTER ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-HF183 ☐ PCR-DG3 ☐ PCR-GFD					☐ Ice												
Tracers		☐ W-E8321-DI ☐ W-E8321-MS					☐ Ice												
Pesticides		☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-E8321-DI ☐ W-PCL-SQ-R ☐ WE8321-MS ☐ W-CARB-AA					☐ Ice												
Phytoplankton		☐ DTY-QN-C ☐ PKD-QN-C																	
Notes:																			
WIN ID/Field ID:																			
COW CREEK @ E RIVER RD																			
Signature: <u>[Signature]</u>										Date: <u>7/22/19</u>									

LIMS EVENT ID: _____ WIN Import ID: _____

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

Scan/Save Field Sheets _____ Migrate Data to WIN: _____ Verify Data In WIN: _____

(Initials/Date) (Initials/Date) (Initials/Date) (Initials/Date)



Hastings

Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: NE-DIST

Requester: Jeremy M. Parrish

Field Report Prepared By: J Parrish

Project ID: SMP

Collected By: J Parrish

Sampling Agency: FDEP

Location Unnamed ditch to Deep Cr. @ Rerebany		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 7/22/19 Time 1005	Eastern Central	Composite end Date	Time	Bottle Group(s) (See pg 2) A
Field ID		Matrix (type, e.g., Salt, Fresh, etc) Fresh	Diss. Oxygen 6.09	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		
WIN/STORET # G2NE0001		Temp (C) 26.3	pH 7.06	Sample Depth 0.2	☐ ft ☒ m	Sp. Conductance (umho/cm) 1741	
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt) 0.88	Comments				
Location Hashaggs outlet @ SR 207		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 7/22/19 Time 1040	Eastern Central	Composite end Date	Time	Bottle Group(s) A
Field ID		Matrix (type, e.g., Salt, Fresh, etc) Fresh	Diss. Oxygen 5.22	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		
WIN/STORET # 20030558		Temp (C) 25.3	pH 7.34	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 640	
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt) 0.31	Comments				
Location COW creek @ E. River Rd		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 7/22/19 Time 1200	Eastern Central	Composite end Date	Time	Bottle Group(s) A
Field ID		Matrix (type, e.g., Salt, Fresh, etc) Fresh	Diss. Oxygen 1.49	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		
WIN/STORET # 20030844		Temp (C) 26.7	pH 7.07	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 1068	
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt) 0.53	Comments				
Location		☐ Comp ☐ Grab	Collection (comp begin or grab) Date	Eastern Central	Composite end Date	Time	Bottle Group(s)
Field ID		Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		
WIN/STORET #		Temp (C)	pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)	
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments				

Relinquished By: J Parrish	Date/Time 7/22/19 1400	Shipping Method Ship No Ship	Number of Coolers Shipped:	Received By:	Date/Time
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Group: A

Bottle Type: P-250ML-WI-THI
NE-ALS-ECQ

of Bottles: 4

Preservative: ICE

Enter Number of Bottles Sent to Lab

3 to ALS

