

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: 154177

RQ: 2023-05-15-65

Project: SMP 2023

- 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 4/17/2023

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.	JEFFREY FEINBERG	5/30/23	7:44	21.2	754.2	8.8	8.81	99.2	—	1.00	P/F	D/F
ICV	"	5/30/23	7:59	22.5	754.2	8.8	8.62	99.0	—	—	P/F	D/F
CCV	J. Burchell	"	1510	24.5	753.4	8.3	8.35	100.0	—	—	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.	JEFFREY FEINBERG	5/30/23	7:47	221018A	10/2023	1000	1000	P/F	D/F
ICV	"	5/30/23	7:58	2112108	7/10/23	100	99.9	P/F	D/F
CCV	J. Burchell	"	1512	"	"	100	101.5	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.	JEFFREY FEINBERG	5/30/23	7:49	230309E	09/2024	7.02	20.9	7.02	23.0	P/F	D/F
Calibr.	"	5/30/23	7:49	230309D	09/2024	4.00	21.0	4.00	150.0	P/F	D/F
Calibr.	"	5/30/23	7:49	220608A	12/2023	10.04	21.2	10.05	186.8	P/F	D/F
ICV	"	5/30/23	8:03	220608A	12/2023	10.04	21.2	10.02	187.1	P/F	D/F
CCV	J. Burchell	"	1515	23030911	09/24	4.00	24.1	4.08	157.6	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 10 163.8, slope from 4 to 7 173.0 (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: 4/17/2023

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	JEFFREY FEINBERG	5/30/23	8:00	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
CHAIN OF CUSTODY FORM

Date: 5/30/2023
Customer: TLH-DIST
RQ: RQ-2023-05-15-65

Collected By: Jade Burtchett, Jeffrey Feinberg
Sampling Agency: FDEP
Project ID: SMP

PLEASE RETURN THE ORIGINAL OF THIS FORM WITH SAMPLE SUBMITTAL
FORMS AND THE COOLER PACKING WORKSHEET TO THE LAB

Number of Coolers Shipped: 1

Delivery Method: HandDelivered

FIELD ID (Labels) submitted under this RQ for this collection date.

Site Location	Field ID/WIN ID
JUMPING GULLEY CREEK	 G1TLHR0033
MIDDLE OF CHERRY LAKE	 G1TLHR0048
SPRING CREEK 50M DSTREAM US19	 G1TLHR0145

RELINQUISHED BY(SIGNATURE):



DATE/TIME: 5/30/2023
1530EST

THIS SECTION TO BE COMPLETED BY LABORATORY

Rec'd/Inspected By:

Rec'd/Inspected Date:

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
CHAIN OF CUSTODY FORM

Date:	<u>5/30/2023</u>	Collected By:	<u>Jade Burtchett, Jeffrey Feinberg</u>
Customer:	<u>TLH-DIST</u>	Sampling Agency:	<u>FDEP</u>
RQ:	<u>RQ-2023-05-15-65</u>	Project ID:	<u>SMP</u>

PLEASE RETURN THE ORIGINAL OF THIS FORM WITH SAMPLE SUBMITTAL
FORMS AND THE COOLER PACKING WORKSHEET TO THE LAB**Number of Coolers Shipped:** 1**Delivery Method:** HandDelivered**FIELD ID (Labels) submitted under this RQ for this collection date.**

Site Location	Field ID/WIN ID
TELFORD SPRING	 G1TLHR0141

RELINQUISHED BY(SIGNATURE):



DATE/TIME: 5/30/2023

1600EST

THIS SECTION TO BE COMPLETED BY LABORATORY

Rec'd/Inspected By:

Rec'd/Inspected Date:



RQ- 2023-05-15-65	Collected By: Jade Burtchett, Jeffrey Feinberg
Customer: FDEP	Field Report Prepared by: Jade Burtchett, Jeffrey Feinberg
Project ID: SMP	Sampling Agency: FDEP

WIN ID/Field ID:  WIN ID/Field ID: G1TLHR0033	Comments:
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Location: JUMPING GULLEY CREEK

Matrix: Fresh	(Check One) ☒ Grab ☐ Composite
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Date and Time {EST}	DO (mg/L)	DO (%SAT)	Temp. °C	pH	Sample Depth (m)	Secchi Depth	Total Depth (m)	Sp COND (µmhos /cm)	Salinity (PPT)		
5/30/2023 1145	8.1	91.1	21.1	6.13	0.1	0.2	0.2	49.3	0.02		
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	
	Lot #			Exp:							
Metals (P-500ML)		W-ICPMS			W-ICP		Ice		HNO3*	<2	
	Lot #			Exp:							
Filtered Nutrients (P125ML)		W-PO4-F			Field Filtered 0.45 um Filter			Ice			
	Filter Lot #			Syringe Lot #							
BOD (BP-1L)		OV-BODUNIN					Ice				
Chlorophyll (BP-1L)		CHLSUITE-W					Ice				
Physical/Aggregate (Fresh) (P-1L)		Alkalinity / W-F / W-TSS / TURBIDITY / W-CL-IC / W-COLOR / W-SO4-IC / W- TDS					Ice				
Physical/Aggregate (Marine) (P-1L)		Alkalinity / W-F / W-TSS / TURBIDITY					Ice				
Macroinvertebrates (PJ-2L)		MI-FW-QLDC		Formalin Lot #			Formalin				
Periphyton (PT-50ML)		ALGAE-ID					Ice				
Microbiology (Contract Lab Bottle)	X	E Coli			F Coli		Enterococci	x	Ice		
		Contract Lab									
Molecular (QPCR-P-500ML)		PCR-HF183			PCR-BacR		PCR-DG3		Ice		
		PCR-GULL2			PCR-GFD						
Tracers (BG-500ML)		W-E8321-DI			W-E8321-MS			Ice			
Pesticides (BG-500ML) (BG-1L)		W-E8321-DI			W-E8321-MS			Ice	MCAA Exp.	MCAA Lot#	
		W-PCL-TQ-R			W-CARB-AA (5 ml of MCAA Buffer Solution)				W-CT-CL-R		
		W-TR-SQ-R				W-PCB-TQ-R					
Phytoplankton		DTY-QN-C			PKD-QN-BV			Ice			
DOC		W-DOC		Field Filtered 0.45 um Filter			Ice		H2SO 4*	<2	
	Acid Preservative Expiration Date										
	Acid Preservative Lot Number										



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

STRATEGIC MONITORING PLAN Field Sheet

July 2022

Meter
Passed End
of Day CCV
Yes / No

WIN Station Name:		MIDDLE OF CHERRY LAKE				Sample Date:		5/30/2023	
WIN / Field ID:	G1TLHR0048	ORG ID:	21FLTLHR	ENR:	-	Latitude:	30.61693		
County:	MADISON	WBID:	3322A	LAKE		Longitude:	-83.415349		
Receiving Body of Water:						-	RQ-	2023-05-15-65	

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Jade Burtchett	x		x		
Jeffrey Feinberg		x		x	x

Sampling Equipment			
x	Sample Container	Carboy	
	Dipper	Van Dorn	
	Syringe	Pole	
Syringe Lot#		Filter Lot#	
Secchi Equipment ID:		#1	
Collection Method			
	Wading	Canoe/Kayak	
	From Shore	Electric Motor	
		x Gasoline Motor	
Depth Measured With Meter			

Water Level:	Normal
Flow:	NA
Matrix:	Fresh
Tide Stage:	
High Tide:	
Low Tide:	
Photos:	No
Meter ID:	154177
Depth Gauge ID:	depth_gauge

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 (PPTth)
EST	1035	4	0.3	8.55	104.7	25.6	6.37	3.5	48.5	0.02
	1037		2	8.54	104.2	25.5	6.67		48.6	0.02
	1039		3.5	8.43	102.7	25.4	6.27		48.7	0.02

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						
Chlorophyll	CHLSUITE-W	ICE				
Physical/Aggregate Nutrients	ALKALINITY, TURBIDITY, W-F, W-TSS	ICE				
	W-CL-IC, W-COLOR, W-SO4-IC, W-TDS	ICE				
Filtered Nutrients			Syringe Lot#; Filter Lot#:			
Acid Preserved Nutrients	W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	ICE	H2SO4*	3013020	01/25/24	H2SO4 pH<2
Metals						
Organics (LC)						
Macroinvertebrates						
Organics (GC)	W-CT-CI-R W-PCL-TQ-R W-PCB-TQ-R	Ice	*2.0 ml of H2SO4 Used Unless Noted Otherwise			
Molecular						
Periphyton						
Phytoplankton						
BOD						
DOC						
Other(s)						
Field Comments:	Clear					
Comments on COC:						
Relinquish Date:	05/30/2023	Signature:				

LIMS EVENT ID: _____ WIN Import ID: _____

Enter Field Parameters, Verify Station ID In LIMS DMT: _____ QC Station ID, Field Parameters In LIMS DMT: _____
(Initials/Date) (Initials/Date)

Save Field Sheets on Network: _____ Migrate Data to WIN: _____
(Initials/Date) (Initials/Date)



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

STRATEGIC MONITORING PLAN Field Sheet

July 2022

Meter
Passed End
of Day CCV
Yes / No

WIN Station Name:	TELFORD SPRING				Sample Date:	5/30/2023	
WIN / Field ID:	G1TLHR0141	ORG ID:	21FLTLHR	ENR:	-		
County:	SUWANNEE	WBID:	3422X	SPRING	Latitude:	30.107049	
Receiving Body of Water:	Suwannee River				Longitude:	-83.165739	
					RQ-	2023-05-15-65	

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Jade Burtchett	x		x		
Jeffrey Feinberg		x		x	x

Sampling Equipment			
x	Sample Container	Carboy	
	Dipper	Van Dorn	
	Syringe	Pole	
Syringe Lot#		Filter Lot#	
Secchi Equipment ID:		#1	
Collection Method			
	Wading	Canoe/Kayak	
	From Shore	Electric Motor	
		x Gasoline Motor	
Depth Measured With Meter			

Water Level:	Low
Flow:	Flowing
Matrix:	Fresh
Tide Stage:	
High Tide:	
Low Tide:	
Photos:	No
Meter ID:	154177
Depth Gauge ID:	depth_gauge

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 (PPTth)
EST	1300	4.2	0.3	1.82	20.6	21.6	6.97	4	492.9	0.24
	1310		3.7	1.63	18.6	21.6	6.97		492.8	0.24

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					
Chlorophyll	CHLSUITE-W	ICE			
Physical/Aggregate Nutrients	ALKALINITY, TURBIDITY, W-F, W-TSS	ICE			
Filtered Nutrients	W-CL-IC, W-COLOR, W-SO4-IC, W-TDS	ICE			
Acid Preserved Nutrients	W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	ICE	H2SO4*	3013020	01/25/24
Metals					
Organics (LC)					
Macroinvertebrates					
Organics (GC)					
Molecular					
Periphyton					
Phytoplankton					
BOD					
DOC					
Other(s)					
Field Comments:	Clear				
Comments on COC:					
Relinquish Date:	05/30/2023	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: _____ Migrate Data to WIN: _____

(Initials/Date) (Initials/Date)



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

STRATEGIC MONITORING PLAN Field Sheet

July 2022

Meter
Passed End
of Day CCV
Yes / No

WIN Station Name:	SPRING CREEK 50M DSTREAM US19				Sample Date:	5/30/2023	
WIN / Field ID:	G1TLHR0145	ORG ID:	21FLTLHR	ENR:	-		
County:	TAYLOR	WBID:	3518	STREAM			
Receiving Body of Water:	Fenholloway River				RQ-	2023-05-15-65	

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Jade Burtchett	x		x		
Jeffrey Feinberg		x		x	x

Sampling Equipment			
x	Sample Container	Carboy	
	Dipper	Van Dorn	
	Syringe	Pole	
Syringe Lot#		Filter Lot#	
Secchi Equipment ID:		#1	
Collection Method			
	Wading	Canoe/Kayak	
x	From Shore	Electric Motor	
		Gasoline Motor	
Depth Measured With		Meter	

Water Level:	Low
Flow:	Flowing
Matrix:	Fresh
Tide Stage:	
High Tide:	
Low Tide:	
Photos:	No
Meter ID:	154177
Depth Gauge ID:	depth_gauge

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 (PPTth)
EST	1410	0.2	0.1	7.04	86.1	25.5	7.78	0.2	320.2	0.15
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					
Physical/Aggregate Nutrients					
Filtered Nutrients					
Acid Preserved Nutrients					
Metals					
Organics (LC)					
Macroinvertebrates					
Organics (GC)	W-CT-CI-R W-PCL-TQ-R W-PCB-TQ-R	Ice			
Molecular					
Periphyton					
Phytoplankton					
BOD					
DOC					
Other(s)					
Field Comments:	Clear				
Comments on COC:					
Relinquish Date:	05/30/2023	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: Migrate Data to WIN: