

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: 153484

RQ: 09-19-21/06-24/05/08-12-31

Project: SMP 2019

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 7/12/19

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. Burchett	8/28/19	7:51	19.7	755.6	9.1	9.09	99.5	-	1.04	P/F	L/F
ICV	"	"	8:01	19.6	755.9	9.2	9.16	99.1	-	-	P/F	L/F
CCV	Paul Blair	8-28-19	16:20	22.8	754.5	8.6	8.66	100.5	-	"	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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	J. Burchett	8/28/19	7:53	190618F	06/20	1000	1000	P/F	L/F
ICV	"	"	8:03	29080B	08/21	100	101	P/F	L/F
CCV	Paul Blair	8-28-19	16:25	190618F	6-20	1000	1002	P/F	L/F
CCV	"	8-28-19	16:26	29080B	8-21	100	99	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. Burchett	8/28/19	7:55	180621E	01/20	7.01	20.3	702	-57.1	P/F	L/F
Calibr.	"	"	7:57	190618A	12/20	4.01	26.6	4.00	116.4	P/F	L/F
Calibr.	"	"	7:59	180621F	01/20	10.08	19.3	10.08	223.9	P/F	L/F
ICV	"	"	8:05	180621F	01/20	10.05	20.7	10.04	224.8	P/F	L/F
CCV	Paul Blair	8-28-19	16:27	190405E	10-20	1.0	22.1	1.14	231.1	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 _____, 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: 7/12/19

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. Burchett	8/28/19	7:48	0.000	0.000	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: Blue Hole Spring @ Caverns State Park

Date: 08/28/2019
(mm/dd/yyyy)

WIN/ Field ID: G2TLHR0009

WBID: 51Z

Latitude: 30.8201838

(Decimal Degrees)

County: Jackson

ORG ID: 21FTLHR

Longitude: 85.2452327

(Decimal Degrees)

Receiving Body of Water: Chipola River

RQ: 2019-08-19-21

Sampling Team Members						WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment						
J. Burkett P. Blais						☒	☒	☒	☒	☒	☐ Sample Container	☐ Van Dorn	☐ Pole	☐ Carboy	☐ Syringe	☐ Dipper	☐ Other
											Depth Measured with: PRESS Equipment ID: 153484						
											Collection Method						
											☐ Wading	☐ Canoe/Kayak	☐ From Shore	☐ Electric Motor	☒ Other: DOCK	☐ Gasoline Motor	
Water Level: Dry/ Pooled/ Low / <u>Normal</u> / High / Flooded						Meter ID# 153484				Matrix: <u>Fresh</u> / Marine / DI							
Photos: Yes ☒ No ☐						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	10:20	7.8	0.3	6.9	4.86	534	7.03	0.16	333.6	19.8							
CEN			7.3		4.92	538	7.05	0.16	333.6	19.7							
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-SA-TP					☒ Ice ☐ H2SO4		9010030	4/10/20	☒ <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 ☐ 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					☐ Ice										

Notes: Active construction all around park.

Field/WIN ID →



G2TLHR0009

Location ↓



BLUE HOLE SPRING @ CAVERN

Signature:

Gabe

Date:

08/28/19

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

8-30-19

Migrate Data to WIN:

Verify Data In WIN:

(Initials/Date)

(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: Russ Mill Creek @ Union Rd

Date: 08/26/2019
(mm/dd/yyyy)

WIN/ Field ID: G2TLHR0037

WBID: 199

Latitude: 30.8523

(Decimal Degrees)

County: Jackson

ORG ID: 21FLTLHR

Longitude: 85.3417

(Decimal Degrees)

Receiving Body of Water: Waddells Mill Creek

RQ- 2019-08-19-21

Sampling Team Members						WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment												
J. Buckner P. Blais						✓	✓	✓	✓	✓	☒ Sample Container ☐ Van Dorn ☐ Pole ☐ Carboy ☒ Syringe ☐ Dipper ☐ Other Depth Measured with <u>Ross</u> Equipment ID <u>153464</u>												
											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>153464</u>						Matrix: <u>Fresh</u> / Marine / DI											
Photos: Yes / <u>No</u>						Flow: No Flow / Intertidal / <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	1055	0.5	0.25	0.5	7.44	89.1	7.37	0.12	245.7	24.4													
CEN				5																			
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		9010030	4/6/2020	<2													
Metals		☐ W-ICPMS ☐ W-ICP				☐ Ice ☐ HNO3				<2													
Filtered Nutrients		☒ W-PO4-F ☒ Field Filtered 0.45 um 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 ☐ W-E8321-MS ☐ W-CARB-AA				☐ Ice																	
Phytoplankton		☐ DTY-QN-C ☐ PKD-QN-C				☐ Ice																	
Notes:																							
Field/WIN ID →												G2TLHR0037											
Location ↓												RUSS MILL CREEK @ UNION RD											
Signature: <u>[Signature]</u>												Date: <u>08/28/19</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 CG 8-30-19 Migrate Data to WIN: Verify Data In WIN:

Customer: TLH-ROC

Project ID: SMP

Requester: Michael Eckles

Collected By:

Field Report Prepared By:

Sampling Agency:

1. Bacteria

2331

[illegible]

Relinquished By: JB, DB	Date/Time 8/28/14 1626	Shipping Method HD	Number of Coolers Shipped: 1	Received By: 	Date/Time 8/28/14 1626
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Group: A	Bottle Type:	P-1L	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
	ALKALINITY						
	TURBIDITY						
	W-CL-IC						
	W-COLOR						
	W-F						
	W-SO4-IC						
	W-TDS						
	W-TSS						
Group: A	Bottle Type:	BP-1L	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
	CHLSUITE-W						
Group: A	Bottle Type:	P-250ML-WO-THI	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	ECOLI-18QT						
Group: A	Bottle Type:	P-500ML	# of Bottles: 4	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	2
	W-NH3						
	W-NO2NO3						
	W-S-A-TP						
	W-TKN						
	W-TOC						
Group: A	Bottle Type:	P-125ML	# of Bottles: 4	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	2
	W-PO4-F						
Group: B	Bottle Type:	P-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	
	ALKALINITY						
	TURBIDITY						
	W-CL-IC						
	W-COLOR						
	W-F						
	W-SO4-IC						
	W-TDS						
	W-TSS						
Group: B	Bottle Type:	BP-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	
	CHLSUITE-W						
Group: B	Bottle Type:	P-250ML-WO-THI	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	

906030
4/10/20

Group: B	Bottle Type: ECOLI-18QT	P-250ML-WO-THI	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab
Group: B	Bottle Type: PCR-BACR PCR-DG3 PCR-HF183	QPCR-P-500ML	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab
Group: B	Bottle Type: W-E8321-DI W-E8321-MS	BG-500ML	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab
Group: B	Bottle Type: W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC	P-500ML	# of Bottles: 1	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab
Group: B	Bottle Type: W-PO4-F	P-125ML	# of Bottles: 1	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab
Group: C	Bottle Type: ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS	P-1L	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab
Group: C	Bottle Type: CHLSUITE-W	BP-1L	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab
Group: C	Bottle Type: ECOLI-18QT	P-250ML-WO-THI	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab
Group: C	Bottle Type: W-ICP W-ICPMS	P-500ML	# of Bottles: 1	Preservative: HNO3	Enter Number of Bottles Sent to Lab

Group: C	Bottle Type:	P-500ML	# of Bottles: 1	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab _____
	W-NH3				
	W-NO2NO3				
	W-S-A-TP				
	W-TKN				
	W-TOC				
Group: C	Bottle Type:	P-125ML	# of Bottles: 1	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab _____
	W-PO4-F				
Group: D	Bottle Type:	P-1L	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab _____
	ALKALINITY				
	TURBIDITY				
	W-CL-IC				
	W-COLOR				
	W-F				
	W-SO4-IC				
	W-TDS				
	W-TSS				
Group: D	Bottle Type:	BP-1L	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab _____
	CHLSUITE-W				
Group: D	Bottle Type:	P-250ML-WO-THI	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab _____
	ECOLI-18QT				
Group: D	Bottle Type:	P-500ML	# of Bottles: 1	Preservative: HNO3	Enter Number of Bottles Sent to Lab _____
	W-ICP				
	W-ICPMS				
Group: D	Bottle Type:	P-500ML	# of Bottles: 1	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab _____
	W-NH3				
	W-NO2NO3				
	W-S-A-TP				
	W-TKN				
	W-TOC				
Group: D	Bottle Type:	P-125ML	# of Bottles: 1	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab _____
	W-PO4-F				