

Enter Field Parameters, Verify Station ID in LIMS DMT: OK 4/24/18 QC Station ID, Field Parameters in LIMS DMT: CM 4-25-18
(Initials/Date) (Initials/Date)
Scan/Save Field Sheets 4-25-18 CM Migrate Data to WIN: _____ Verify Data in WIN: _____
(Initials/Date) (Initials/Date) (Initials/Date)

Hardwood, Cane, Chicken, Black, Wang

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Boldly "X" this box if there is qualified data on this name.

Meter ID: B10#2

RQ: 2018-04-16-18

Project: Smp

PH

- 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.

Circle/Fill In: Lab Calibration or Calibration/Verification on Site

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Curtis Mussen	4/18/18	7:09	21.25	8.863	8.87	100.0	73	-	P/F	L/F
ICV	Curtis Mussen	4/18/18	7:10	21.25	8.863	8.87	100.0	73	-	P/F	L/F
CCV	Curtis Mussen	4/18/18	13:19	26.02	8.114	8.06	99.3	77	-	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; 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.	Curtis Mussen	4/18/18	7:12	17100SD	10/2018	1000	1000	P/F	L/F
ICV	Curtis Mussen	4/18/18	7:13	17100SD	10/2018	1000	1001	P/F	L/F
CCV	Curtis Mussen	4/18/18	13:20	180326 A	04/2019	100	100	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	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Curtis Mussen	4/18/18	7:15	17100SB	4/2019	7.0	7.00	325	P/F	L/F
Calibr.	Curtis Mussen	4/18/18	7:17	17100SA	10/2018	4.01	4.01	177	P/F	L/F
Calibr.	Curtis Mussen	4/18/18	7:19	17100SC	4/2019	10.01	9.98	-160	P/F	L/F
ICV	Curtis Mussen	4/18/18	7:21	17100SC	4/2019	10.01	9.96	-159	P/F	L/F
CCV	Curtis Mussen	4/18/18	13:22	17100SA	10/2018	4.01	3.56	199	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)

Is meter equipped with depth sensor? Yes / No If yes, list date of last quarterly depth 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	Curtis Mussen	4/18/18	7:14	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
Central Laboratory Submittal Form

Customer: WAS-SECT

Project ID: SMP

Requester: Curtis Musson

Collected By: Curtis Musson / Raymond StuartField Report Prepared By: Raymond StuartSampling Agency: DEP

Location		WIN ID/Field ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID		Harbinwood		Date	Time	Central	Date	Time	(See pg 2)
WIN/STORET #		Estates Drain	G1WA0034	4/19/18	8:15				AB
Latitude	30.5193	Longitude	-84.3357	Temp (C)	17.86	pH	7.07	Diss. Oxygen	4.95
Location				Salinity (ppt)	0.05	Sample Depth	0.1	Total Res. Chlorine (mg/L)	C
Field ID		Black Creek		Collection (comp begin or grab)	Time	Central	Date	Time	
WIN/STORET #		upstream of CR158	G1WA0072	4/18/18	9:15				AB
Latitude	30.472981	Longitude	-84.057057	Temp (C)	14.64	pH	4.92	Diss. Oxygen	8.51
Location				Salinity (ppt)	0.01	Sample Depth	0.3	Total Res. Chlorine (mg/L)	C
Field ID		Wards Creek		Collection (comp begin or grab)	Time	Central	Date	Time	
WIN/STORET #		Upstream of CR259	G1WA0074	4/19/18	10:25				A
Latitude	30.564331	Longitude	-83.909293	Temp (C)	15.36	pH	5.08	Diss. Oxygen	2.17
Location				Salinity (ppt)	0.02	Sample Depth	0.2	Total Res. Chlorine (mg/L)	
Field ID		Caney Creek		Collection (comp begin or grab)	Time	Central	Date	Time	
WIN/STORET #		Upstream of US 90	G1WA0014	4/18/18	9:55				AB
Latitude	30.5325	Longitude	-83.9501	Temp (C)	14.59	pH	7.16	Diss. Oxygen	9.38
Location				Salinity (ppt)	0.06	Sample Depth	0.08	Total Res. Chlorine (mg/L)	D

Relinquished By: <u>[Signature]</u>	Date/Time	4/18/18 1:03	Shipping Method		Number of Coolers Shipped:	3	Received By: <u>[Signature]</u>	Date/Time	4/18/18 1:05
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Customer: WAS-SECT
Project ID: SMP

Requester: Curtis Musson
Collected By:

Field Report Prepared By: _____
Sampling Agency: _____

Location		Caney Creek Downstream of 158.A		WIN ID / Field ID  GIWA0000		Collection (comp begin or grab) Date 4/18/18 Time 11:00		Composite end Date 11:00		Bottle Group(s) (See pg 2) AB	
Field ID						Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 8.45		Total Res. Chlorine (mg/L)	
WIN/STORET #						Temp (C) 15.44		pH 6.70		Sp. Conductance (umho/cm) 134	
Latitude		30.52		Longitude -83.94		Salinity (ppt) 0.06		Comments			
Location		Chicken Branch at Old Plank Rd		WIN ID / Field ID  GIWA0031		Collection (comp begin or grab) Date 4/18/18 Time 12:25		Composite end Date 12:25		Bottle Group(s) AC	
Field ID						Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 7.08		Total Res. Chlorine (mg/L)	
WIN/STORET #						Temp (C) 17.79		pH 7.04		Sp. Conductance (umho/cm) 292	
Latitude		30.3261		Longitude -84.1481		Salinity (ppt) 0.14		Comments			
Location						Collection (comp begin or grab) Date 4/18/18 Time 12:25		Composite end Date 12:25		Bottle Group(s) AC	
Field ID						Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 7.08		Total Res. Chlorine (mg/L)	
WIN/STORET #						Temp (C) 17.79		pH 7.04		Sp. Conductance (umho/cm) 292	
Latitude		30.3261		Longitude -84.1481		Salinity (ppt) 0.14		Comments			
Location						Collection (comp begin or grab) Date 4/18/18 Time 12:25		Composite end Date 12:25		Bottle Group(s) AC	
Field ID						Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 7.08		Total Res. Chlorine (mg/L)	
WIN/STORET #						Temp (C) 17.79		pH 7.04		Sp. Conductance (umho/cm) 292	
Latitude		30.3261		Longitude -84.1481		Salinity (ppt) 0.14		Comments			
Location						Collection (comp begin or grab) Date 4/18/18 Time 12:25		Composite end Date 12:25		Bottle Group(s) AC	
Field ID						Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 7.08		Total Res. Chlorine (mg/L)	
WIN/STORET #						Temp (C) 17.79		pH 7.04		Sp. Conductance (umho/cm) 292	
Latitude		30.3261		Longitude -84.1481		Salinity (ppt) 0.14		Comments			
Location						Collection (comp begin or grab) Date 4/18/18 Time 12:25		Composite end Date 12:25		Bottle Group(s) AC	
Field ID						Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 7.08		Total Res. Chlorine (mg/L)	
WIN/STORET #						Temp (C) 17.79		pH 7.04		Sp. Conductance (umho/cm) 292	
Latitude		30.3261		Longitude -84.1481		Salinity (ppt) 0.14		Comments			
Location						Collection (comp begin or grab) Date 4/18/18 Time 12:25		Composite end Date 12:25		Bottle Group(s) AC	
Field ID						Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 7.08		Total Res. Chlorine (mg/L)	
WIN/STORET #						Temp (C) 17.79		pH 7.04		Sp. Conductance (umho/cm) 292	
Latitude		30.3261		Longitude -84.1481		Salinity (ppt) 0.14		Comments			
Location						Collection (comp begin or grab) Date 4/18/18 Time 12:25		Composite end Date 12:25		Bottle Group(s) AC	
Field ID						Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 7.08		Total Res. Chlorine (mg/L)	
WIN/STORET #						Temp (C) 17.79		pH 7.04		Sp. Conductance (umho/cm) 292	
Latitude		30.3261		Longitude -84.1481		Salinity (ppt) 0.14		Comments			
Location						Collection (comp begin or grab) Date 4/18/18 Time 12:25		Composite end Date 12:25		Bottle Group(s) AC	
Field ID						Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 7.08		Total Res. Chlorine (mg/L)	
WIN/STORET #						Temp (C) 17.79		pH 7.04		Sp. Conductance (umho/cm) 292	
Latitude		30.3261		Longitude -84.1481		Salinity (ppt) 0.14		Comments			
Location						Collection (comp begin or grab) Date 4/18/18 Time 12:25		Composite end Date 12:25		Bottle Group(s) AC	
Field ID						Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 7.08		Total Res. Chlorine (mg/L)	
WIN/STORET #						Temp (C) 17.79		pH 7.04		Sp. Conductance (umho/cm) 292	
Latitude		30.3261		Longitude -84.1481		Salinity (ppt) 0.14		Comments			
Location						Collection (comp begin or grab) Date 4/18/18 Time 12:25		Composite end Date 12:25		Bottle Group(s) AC	
Field ID						Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 7.08		Total Res. Chlorine (mg/L)	
WIN/STORET #						Temp (C) 17.79		pH 7.04		Sp. Conductance (umho/cm) 292	
Latitude		30.3261		Longitude -84.1481		Salinity (ppt) 0.14		Comments			
Location						Collection (comp begin or grab) Date 4/18/18 Time 12:25		Composite end Date 12:25		Bottle Group(s) AC	

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
					4/18/10

Group: A	Bottle Type: P-1L	# of Bottles: 6	Preservative: ICE	Enter Number of Bottles Sent to Lab	6
ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS					
Group: A	Bottle Type: BP-1L	# of Bottles: 6	Preservative: ICE	Enter Number of Bottles Sent to Lab	6
CHLSUITE-W					
Group: A	Bottle Type: P-250ML-WO-THI	# of Bottles: 6	Preservative: ICE	Enter Number of Bottles Sent to Lab	6
ECOLI-18QT					
Group: A	Bottle Type: P-500ML	# of Bottles: 6	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab	6
W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC					
Group: A	Bottle Type: P-125ML	# of Bottles: 6	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab	6
W-PO4-F					
Group: B	Bottle Type: P-500ML	# of Bottles: 4	Preservative: HNO3	Enter Number of Bottles Sent to Lab	4
W-ICP W-ICPMS					
Group: C	Bottle Type: QPCR-P-500ML	# of Bottles: 3	Preservative: ICE	Enter Number of Bottles Sent to Lab	3
PCR-FILTER					
Group: C	Bottle Type: BG-500ML	# of Bottles: 4	Preservative: ICE	Enter Number of Bottles Sent to Lab	4
W-E8321-DI W-E8321-MS					
Group: D	Bottle Type: QPCR-P-500ML	# of Bottles: 2	Preservative: ICE	Enter Number of Bottles Sent to Lab	2
PCR-BACR PCR-FILTER					

Group: D	Bottle Type: W-E8321-DI W-E8321-MS	BG-500ML	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab	3
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Cooler Packing Worksheet for Request: RQ-2018-04-16-18

Black, Wards, caney, Harbinwood, Megginnis

Ship Cooler On: 4/12/2018

Customer/Project: WAS-SECT/SMP

Assigned To: GREENWOO_J

Requester: Curtis Musson

Priority: 3

850-245-8453
2600 Blair Stone Rd

Tallahassee, FL 32399

Attn: Curtis Musson

Comments:

No preservatives needed.

Group A: Freshwater Kit & E. coli

Group B: Metals

Group C: Tracers & PCR-FILTER

Group D: Tracers & PCR-FILTER & PCR-BacR

Packing Notes:

No FedEx labels

No Trash Bags

QC bottles added-jhw

Requested Analyses:

Bottle Group: A

of Sites: 6

Container ID: P-1L

Qty: 6 Preservation: ICE

Lot # 00570681

Description: Plastic Bottle 1L

Analysis

ALKALINITY

TURBIDITY

W-CL-IC

W-COLOR

W-F

W-SO4-IC

W-TDS

W-TSS

Description

Alkalinity in aqueous matrices as mg CaCO3/L

Turbidity in aqueous matrices

Chloride in aqueous matrices

True Color measured at 450 nm

Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)

Sulfate in aqueous matrices

Total Dissolved Solids in aqueous matrices

Total Suspended Solids in aqueous matrices

Container ID: BP-1L

Qty: 6 Preservation: ICE

Lot # 1223623

Description: Brown Plastic Bottle 1L

Analysis

Description

Container ID: P-250ML-WO-THI

Qty: 6 Preservation: ICE

Lot # 417167

Description:

Analysis

ECOLI-18QT

Description

Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems

Container ID: P-500ML

Qty: 6 Preservation: ICE And H2SO4

Lot # 00066045

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

Analysis

W-NH3

W-NO2NO3

W-S-A-TP

W-TKN

W-TOC

Description

Ammonia in aqueous matrices as mg N/L

Nitrite/Nitrate in aqueous matrices as mg N/L

Total Phosphorus in aqueous matrices as mg P/L

Total Kjeldahl Nitrogen in aqueous matrices

Nonpurgeable Organic Carbon in aqueous matrices

Container ID: P-125ML

Qty: 6 Preservation: FILTER-ICE

Lot # 00069732

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Bottle Group: B

of Sites: 4

Container ID: P-500ML

Qty: 4 Preservation: HNO3

Lot # 00066045

Description: Plastic Bottle 500 mL

Affix RED nitric acid dot to container.

Analysis

W-ICP

W-ICPMS

Description

Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects

Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects

Bottle Group: C

of Sites: 3

Container ID: QPCR-P-500ML

Qty: 3 Preservation: ICE

Lot # 00070172

Description: 500ml Sterile Nalgene

Analysis

PCR-FILTER

Description

Preparation of Samples by Filtration and held for qPCR Analysis

Container ID: BG-500ML

Qty: 4 Preservation: ICE

Lot # 00070528

Description: Brown Glass Bottle 500ML

Affix BLUE dot to container.

Analysis

W-E8321-DI

W-E8321-MS

Description

Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

Bottle Group: D

of Sites: 2

Container ID: QPCR-P-500ML

Qty: 2 Preservation: ICE

Lot # 00070172

Description: 500ml Sterile Nalgene

Analysis

PCR-BACR

PCR-FILTER

Description

Detection and quantification of Ruminant specific Bacteroidetes BacR genetic marker with quantitative polymerase chain reaction

Preparation of Samples by Filtration and held for qPCR Analysis

Container ID: BG-500ML

Qty: 3 Preservation: ICE

Lot # 00069782

Description: Brown Glass Bottle 500ML

Affix BLUE dot to container.

00070528/2

Analysis

W-E8321-DI

W-E8321-MS

Description

Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

Cooler Packed By:

Q.D.

Number of Coolers:

3

Date:

4/11/18

Kit must also include:

- ☒ Field Sheets
- ☒ Temperature Control Bottle
- ☐ FedEx Bills, if applicable
- ☐ Plastic Bags
- ☐ Zip Ties

If Preservation Included:

ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____

PLEASE RETURN ALL COOLERS FOR RQ-2018-04-16-18