

Login Checklist

RQ- 2020-10-26-46

Login Station ID: #5

Shipping Method: FedEx | UPS | HD | Greyhound

Date/Time of Receipt: 12/ 16 /20 @ 10:15

*Cooler Temperature	Samples Frozen?	* All Samples in Cooler Preserved with		Number of Sample Containers in Cooler	Evidence Tape				Waybill Tracking #
					Present?		*Intact?		
	YES	HNO ₃	Formalin		Yes	No	Yes	No	
0.6 1.7				6 8		✓ ✓			121YR217849956752 121YR2178495379142

COOLER CHECK

*All samples received on ice unless otherwise noted. HNO3 and Formalin preserved samples do NOT have a temperature requirement.

- If the temperature of a cooler exceeds 6.0 oC (above 10.0 oC for W-1-4-DIOX and microbiology) or received without ice, identify affected samples in an NCR. NCR# _____
- DOH coolers can exceed 2.0 °C above the standard temperature (6.0 or 10.0 °C for W-1-4-DIOX) without login confirmation from customer for samples requiring ice preservation; identify affected samples in an NCR. NCR# _____
- If cooler or samples are received with a damaged Evidence Seal; identify the affected samples in an NCR. NCR# _____
- If coolers or samples are received late; identify the affected samples in an NCR. NCR# _____

Chain of Custody/ Field Sheet(s) Included?

Yes ✓ No _____

Micro-Biology Overflow Chain of Custody/ Field Sheet(s) Included?

Yes ✓ No _____

CONTAINER CHECK

Evidence Tape on Bottles?

Yes _____ No _____ NA ✓

Evidence Tape intact? Yes _____ No _____

If Criminal, photographs taken?

Yes _____ No _____

Containers intact? Yes ✓ No _____

Caps on tight?

Yes ✓ No _____

Sufficient Sample Volume:

Yes ✓ No _____

If NO is checked above, generate an NCR listing affected sample IDs in its appropriate category. NCR# _____

CHLORINE CHECK REQUIRED? (Blue dot on container)

Yes ✓ No _____ Init: KK

Chlorine detected? (One container checked per Field ID)

Yes _____ No ✓ Init: KK

If chlorine is detected, generate an NCR listing affected sample IDs . NCR# _____

PRESERVATION CHECK (EXCLUDING SAMPLES SENT TO OVERFLOW LABS, "OV-")

**Acid Preserved Samples: pH< 2.0?

Yes ✓ No _____ NA _____ Init: KK

**W-1-4-DIOX (Green dot on container) preserved to pH<4.0?

Yes _____ No _____ NA ✓ Init: KK

If samples were not preserved correctly, generate an NCR listing affected sample IDs . NCR# _____

Coolers Unpacked/Checked by: KK

Date: 12/ 16 /20 Event contains NCRs (Y/N)? N

Event ID: REFERENCE STREAMS NWROC
NW-DIST-2020-12-16-02 (SCIREF)

Date Received: 16-DEC-2020 10:15

Login Checklist

Login Preservation Equipment

Lot # & Exp: Date

Additional Comments:

Infrared Thermometer ID:	Temp Gun #5 EXP:10/28/2021
pH Test Strips 0 – 6	5/15/21 LOT#213316BV
pH Paper 0 – 3	
pH Paper 0 – 13	231019 EXP:11/01/2022
Chlorine Test Strips	8261 EXP:07/2021

ENCORE SAMPLES

S-VOC-MS samples in Encores must be frozen within 48 hours of collection.

Were Encore samples received? Yes _____ Init: _____

Date and time placed in freezer _____

Were all samples placed in freezer within 48 hours of collection? Yes _____ No _____

If no, were samples shipped on dry ice? Yes _____ No _____

If S-VOC-MS samples were not preserved correctly, generate an NCR listing affected sample IDs . NCR# _____

FOR CLEAN LAB USE ONLY – Total Mercury Preservation Check(W-HG-AF;W-HG-AF-F):

Samples preserved within 48 hours? Yes _____ No _____

Date and time samples preserved: _____

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
CHAIN OF CUSTODY FORM

Date: 12/15/2020 **Collected By:** Heather Schmuki, Frank Butera
Customer: NW-DIST **Sampling Agency:** FDEP
RQ: RQ-2020-10-26-46 **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

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

Site Location	Field ID/WIN ID
Mcdavid Creek 100 M Upstream Sr99	 G5NW0150

RELINQUISHED BY(SIGNATURE):

Heather Schmuki

DATE/TIME: 12/15/2020; 1500

THIS SECTION TO BE COMPLETED BY LABORATORY

Rec'd/Inspected By: *WV*

Rec'd/Inspected Date: *12-16-20/1015*

CALIBRATION AND VERIFICATION LOG (FCBP SOP FT 1400, FT 1500, FD 1000, FD 4000)

Meter ID: 55077

NO: 2020-12-14-28

NO: 2020-12-14-46

Project: SMP/Kelana

Be-55077-4

Each "V" for
low-flow and
high-flow rate on
the screen

- 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: 10/13/20

DO	Name	Date	Time	Temp	Baro-	D.O.	Meter	% DO	Probe	Probe	Pass	Lab
DEP SOP			CT-ET	°C	meter	Chart	D.O.		Charge	Gain	/	/
FT 1500					mmHg	mg/L	mg/L				Field	Field
Calibr.	H. Schmidt	12/15/20	0723	20.0	764	9.1	9.16	100.3			Pass	Pass
ICV	↓	↓	0724	20.0	764	9.1	9.18	100.4			Pass	Pass
CCV			1444	19.5	761	9.2	9.38	101.1			Pass	Pass
CCV											Pass	Pass

DO Acceptance criteria from Table 2: 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 (Pico DSS 0.75 to 1.50); DO charge N/A. Steady-state & Galvanic Sensors: DO Gain & Charge N/A.

Spec.	Name	Date	Time	Lot #	Expir.	Standard	Meter	Pass	Lab
Cond.			CT-ET		Date	µmhos/cm	Reading	/	/
FT 1200							µmhos/cm	Field	Field
Calibr.	H. Schmidt	12/15/20	0725	201245	2/21	100.0	100.0	Pass	Pass
ICV	↓	↓	0726	201034	1/21	100	104.9	Pass	Pass
CCV			1451	201034	10/21	100	101.5	Pass	Pass
CCV								Pass	Pass

Conductivity Acceptance criteria ± 5%

pH	Name	Date	Time	Lot #	Expir.	pH	Temp	Meter	mV	Pass	Lab
DEP SOP			CT-ET		Date	Buffer	°C	reading		/	/
FT 1100						SU		SU		Field	Field
Calibr.	H. Schmidt	12/15/20	0729	2704022	3/21	7.02	19.4	7.02	-22.6	Pass	Pass
Calibr.	↓	↓	0730	203620	6/22	4.00	20.3	4.00	55.8	Pass	Pass
Calibr.	↓	↓	0732	201423	5/22	10.06	20.3	10.06	-20.4	Pass	Pass
ICV	↓	↓	0734	203620	6/22	4	19.4	4.08	100.2	Pass	Pass
CCV			1150	2704022	3/21	7	11.7	6.93	78.0	Pass	Pass
CCV										Pass	Pass

pH Acceptance criteria ± 0.2 SU

mV pH 7 Range 0 ± 50

mV pH 4 Range 100 ± 50

mV pH 10 Range 200 ± 50

If mV are recorded, slope from 7 to 10

slope from 7 to 7

slope from 10 to 10

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / Not used with project

If YES, complete daily Calibr. & ICV on top and log date of last quarterly depth verification: 10/13/20

If NO, what will be used? (www. Seichi Data Link / Sensor Unique ID) _____ Date of last verification: _____

Depth Sensor	Name	Date	Time	Calibrated	KV Value	Pass /	Lab /
(Daily Calibration & ICV)			CT-ET	Value (0.00 or 0.000, meters)	meters	Field	Field
Pressure mode in air	H. Schmidt	12/15/20		0.00	0.00	Pass	Pass

Report two decimal places. Round numbers 4 down, 5 up. If difference is greater than 1.5%, then meter 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: Modavid Creek 100 M Upstream Sr99

Date: 12/15/2020

WIN/Field ID: G5NW0150

WBID: 149

ENR:

Latitude: 30.73974078

County: ESCAMBIA

Org ID: 21FLPNS

Longitude: -87.44805258

Receiving Body of Water: Perdido

RQ: 2020-10-26-46

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
☒	Heather Schmuki	x	x			
☒	Frank Butera		x	x	x	
☐						
☐						

Sampling Equipment	
☒ Sample Container	☐ Carboy
☐ Dipper	☐ Van Dorn
☒ Syringe	☐ Pole
Depth measured with: Meter	
Secchi Equipment ID:	
Collection Method	
☒ Wading	☐ Canoe/Kayak
☐ From Shore	☐ Electric Motor
☐ Other	☐ Gasoline Motor

Water Level: ☒ Normal ☐ Low ☐ High ☐ Dry ☐ Pooled ☐ Flooded		Meter ID# 155077 (ProDSS)	
Photos: NO	Flow: FLOW	Tide:	Tide Times: High: Low:
Biological Samples Collected: ☐ None ☒ HA ☒ SCI ☒ RPS ☐ Algae ID ☐ LVS ☐ LVI Other:			
SBO ID Numbers:			
Notes:			

Duplicate Sample

Time Zone: CEN	Time: N/A	Field ID: N/A	(WIN ID_DUP)
WIN DMT Activity ID:			

Blank

Time Zone:	Time: N/A	Field ID: N/A	(Blank Type_DDMMYYYY)
DI Source: N/A	Location: N/A		
DI Type: N/A	Equipment ID: N/A		

LIMS EVENT ID:	WIN Import ID:	
Enter Field Parameters, Verify Station ID in LIMS DMT: (Initials/Date)	QC Station ID, Field Parameters in LIMS DMT: (Initials/Date)	
Scan/Save Field Sheets (Initials/Date)	Migrate Data to WIN: (Initials/Date)	Verify Data in WIN: (Initials/Date)



RQ-2020-10-26-46

Customer: WQAP

Project ID: SMP

Collected By: Heather Schmuki, Frank Butera

Field Report Prepared By: Heather Schmuki

Sampling Agency: FDEP

Place Label Here						Comments: Microbiology sample(s) submitted to contract laboratory				
WIN ID/Field ID:  G5NW0150										
Location: Mcdavid Creek 100 M Upstream Sr99										
Matrix: Fresh						(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 (PPT)
12/15/2020	950 CEN	9.43	89.4	13.2	4.26	0.25	0.47 ☒ VOB (S)	0.47	22.7	0.01
Central Lab please use top row for login purposes										
	CEN									
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	1	A
		Lot #	Sa9354050		Exp:	12/20/20				
Metals (P-500ML)		☒ W-ICPMS ☒ W-ICP ☒ W-HARD				☒ Ice ☒ HNO3*		☒ <2	1	A
		Lot #	Na9364060		Exp:	12/20/20				
Filtered Nutrients (P125ML)		☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter				☒ Ice			1	A
		Filter Lot #	17097890							
		Syringe Lot #	0079929							
Chlorophyll (BP-1L)		☒ CHLSUITE-W				☒ Ice			1	A
Physical/Aggregate (Fresh) (P-1L)		☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CL-IC / W-COLOR / W-SO4-IC / W-TDS				☒ Ice			1	A
Physical/Aggregate (Marine) (P-1L)		☐ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY				☐ Ice				
Macroinvertebrates (PJ-2L)		☒ MI-FW-QLDC				☒ Formalin			3	B
Periphyton (PT-50ML)		☐ ALGAE-ID				☐ Ice				
Microbiology (Contract Lab Bottle)		☒ E Coli ☐ F Coli ☐ Enterococci ☒ Contract Lab				☒ Ice			1	A
Molecular (QPCR-P-500ML)		☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-DG3 ☐ PCR-GULL2 ☐ PCR-GFD ☐				☐ Ice				
Tracers (BG-500ML)		☐ W-E8321-DI ☐ W-E8321-MS				☐ Ice				
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			5	A
						☐ Ice				
Name: Heather Schmuki Frank Butera				Signature: 				Date: 12/15/2020		

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution

Downloaded At: 11:53 11 September 2009

Laboratory: *Wageningen Research Laboratory*Depositor name: F.D.

...and the ...

Page 1 of 1

signed and dated by Reichman

1998

Page 7 of 11

Signature of Agent: VDH

10	100000
20	100000

CaseType: 2014-02-15/22 - 16.91

[illegible]

Cash/Verbs: Sample Container 1000 630020

80-2029-18-38-40

Contact organization: FICEM

Approved: East Departmental Center, Suite 300, Philadelphia, PA 19107

Abbreviations: SW = tap water, GW = ground water, FW = Freshwater, SW + GW = mixed water, SW + FW = mixed water, GW + FW = mixed water.

11. $\frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$ $\frac{1}{6} \times \frac{1}{4} = \frac{1}{24}$ $\frac{1}{24} \times \frac{1}{5} = \frac{1}{120}$ $\frac{1}{120} \times \frac{1}{6} = \frac{1}{720}$

Date of Request: 15-OCT-2020
 Created By: KING_M On: 15-OCT-2020
 Modified By: JASROTIA_P On: 15-OCT-2020
 Customer: NW-DIST
 Project: SCIREF
 Division: Division of Environmental Assessment and Restoration
 District: Northwest District
 Event Description: REFERENCE STREAMS NWROC

Send Coolers To:

Phone: 850-595-0605
 160 Government Center
 Suite 208
 Pensacola, FL 32502-5794
 Attn: Michael King
 Cooler Ship Email: michael.king@dep.state.fl.us

Priority: 3
 Event Status: S
 Criminal Investigation: NO
 Chemistry Request Reviewed By: WATTS_J On: 15-OCT-2020
 Biology Request Reviewed By: JASROTIA_P On: 15-OCT-2020
 Sampling Kit Required: YES Ship on: 23-OCT-2020
 Sampling Kit Shipped: YES On: 19-OCT-2020
 Sampling Kit Packed By: REYNOLDS_T
 Preservatives Needed: NO
 Date to Receive Samples: 29-OCT-2020
 Logged In By:

Send Final Report To:

160 Government Center
 Suite 208
 Pensacola, FL 32502-5794
 Attn: Cheryl Bunch
 Report Notification Email:
 michael.king@dep.state.fl.us;cheryl.bunch@dep.state.fl.us

Comments: Group A: Nutrients, Bacteria, PCR, Metals, Tracers, Q-PSNP-TQ

Group B: SCI, Algae_ID

Bottle Group A (Water) With 2 Samples:

Bottle Type: P-1L	Number of Bottles: 2	Preserved With: ICE
ALKALINITY	Template: DEFAULT	(SM 2320 B-2011) Alkalinity in aqueous matrices as mg CaCO ₃ /L
TURBIDITY	Template: DEFAULT	(EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices
W-CL-IC	Template: DEFAULT	(EPA 300.0 Rev. 2.1) Chloride in aqueous matrices
W-COLOR	Template: DEFAULT	(SM 2120 B-2011) True Color measured at 450 nm (not valid for NPDES monitoring)
Color (true)		
W-F	Template: DEFAULT	(SM 4500 F-C-2011) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
W-SO ₄ -IC	Template: DEFAULT	(EPA 300.0 Rev. 2.1) Sulfate in aqueous matrices
W-TDS	Template: DEFAULT	(SM 2540 C-2011) Total Dissolved Solids in aqueous matrices
W-TSS	Template: DEFAULT	(SM 2540 D-2011) Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample
Bottle Type: BP-1L	Number of Bottles: 2	Preserved With: ICE
CHLSUITE-W	Template: DEFAULT	(SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry
Bottle Type: TEST HAS NO	Number of Bottles: 2	Preserved With: ICE
NW-UWF-ECQ	Template: DEFAULT	(SM 9223 B Quanti-Tray) E. coli by Colilert-18/QT by UWF in Pensacola
Bottle Type: BG-500ML	Number of Bottles: 2	Preserved With: ICE
W-E8321-DI	Template: DEFAULT	(EPA 8321B) Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS
W-E8321-MS	Template: DEFAULT	(EPA 8321B) Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS
Bottle Type: P-500ML	Number of Bottles: 2	Preserved With: HNO ₃
W-HARD	Template: DEFAULT	(SM 2340B) Hardness by calculation, in aqueous matrices, reported as mg/L CaCO ₃
Hardness		
W-ICP	Template:	(EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects

Bottle Group A (Water) With 2 Samples:

Bottle Type: P-500ML	Number of Bottles: 2	Preserved With: HNO3
W-ICP	Template:	(EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects
Barium		
Calcium		
Iron		
Magnesium		
Potassium		
Sodium		
Zinc		
W-ICPMS	Template:	(EPA 200.8 Rev. 5.4) Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects
*Boron		
Aluminum		
Antimony		
Arsenic		
Cadmium		
Chromium		
Copper		
Lead		
Nickel		
Selenium		
Silver		
Thallium		

Bottle Type: P-500ML	Number of Bottles: 2	Preserved With: ICE And H2SO4
W-NH3	Template: DEFAULT	(EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L
W-NO2NO3	Template: DEFAULT	(EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L
W-S-A-TP	Template: DEFAULT	(EPA 365.1 Rev. 2.0) Total Phosphorus in aqueous matrices as mg P/L
W-TKN	Template: DEFAULT	(EPA 351.2 Rev. 2.0) Total Kjeldahl Nitrogen in aqueous matrices
W-TOC	Template: DEFAULT	(SM 5310 B-2011) Nonpurgeable Organic Carbon in aqueous matrices
Bottle Type: P-125ML	Number of Bottles: 2	Preserved With: FILTER-ICE
W-PO4-F	Template: DEFAULT	(EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L
Bottle Type: BG-1L	Number of Bottles: 6	Preserved With: ICE
W-PSNP-TQ	Template: MASTERLIST	(EPA 8270E) Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS

Bottle Group B (Biological) With 2 Samples:

Bottle Type: PJ-2L	Number of Bottles: 4	Preserved With: Formalin
MI-FW-QLDC	Template: DEFAULT	(SOP-IZ06) No. Taxa of FW macroinverts, qual samp, 20 dipnets.
Bottle Type: PT-50ML	Number of Bottles: 2	Preserved With: ICE
ALGAL_ID	Template: DEFAULT	(SOP-AB05) Qualitative assessment of algal taxa present without counts

* - The laboratory is not NELAP certified for this analyte/method, or certification is not applicable.