

Klug, Kyle

From: Musson, Curtis
Sent: Wednesday, September 2, 2020 12:19 PM
To: Klug, Kyle
Subject: RE: Emailing RQ-2020-08-24-18

If a bottle sis out of hold time or out of temp don't log in with one exception:
Log in W-E8321-DI & W-E8321-MS, bottle group A
Thanks,
Curtis

From: Klug, Kyle <Kyle.Klug@FloridaDEP.gov>
Sent: Wednesday, September 02, 2020 12:07 PM
To: Musson, Curtis <Curtis.Musson@FloridaDEP.gov>
Subject: FW: Emailing RQ-2020-08-24-18

From: Klug, Kyle
Sent: Wednesday, September 2, 2020 12:04 PM
To: Schmuki, Heather <Heather.Schmuki@FloridaDEP.gov>
Cc: Ayres, Joshua <Joshua.Ayres@dep.state.fl.us>
Subject: RE: Emailing RQ-2020-08-24-18

Good afternoon,

Unfortunately his cooler got stuck and transit. The samples are out of temp and the short holds are expired. I'm guessing you will want to resample these?

Thank you,
Kyle

From: Schmuki, Heather <Heather.Schmuki@FloridaDEP.gov>
Sent: Monday, August 31, 2020 3:58 PM
To: Lab.Receiving <Lab.Receiving@floridadep.gov>
Subject: Emailing RQ-2020-08-24-18

Please see attached for coc.

Best regards,
Heather schmuki

Get [Outlook for Android](#)

Login Checklist

RQ- 2020-08-24-18

Login Station ID: #5

Shipping Method: FedEx | UPS | HD | Greyhound

Date/Time of Receipt: 9/ 2 /20 @ 12:00

*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	
9.8				13		✓			9117 6381 1597

*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 °C (above 10.0 °C for W-1-4-DIOX and microbiology) or received without ice, identify affected samples in an NCR. NCR# 8407
- 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# _____

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: 9/ 2 /20 Event contains NCRs (Y/N)? Y

Eglin Run East
Event ID: NW-DIST-2020-09-02-01 (SMP)
Date Received: 02-SEP-2020 12:00

Login Checklist

Login Preservation Equipment

Infrared Thermometer ID:	IR TEMP GUN #5
pH Test Strips 0 – 6 Lot #	213316BV EXP:5-15-21
pH Paper 0 – 3 Lot #	
pH Paper 0 – 13 Lot #	231019 EXP:11-1-22
Chlorine Test Strips Lot #	8261 EXP:07-2021

Additional Comments:

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: 8/31/2020
Collected By: Heather Schmuki, Christopher Stopher Slade
Customer: NW-DIST
Sampling Agency: FDEP
RQ: RQ-2020-08-24-18
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
Shaw Still Branch Upstream E College Blvd	 G3NW0162
Eagle Creek Upstream Of Hwy 20	 G3NW0151
Juniper Creek Upstream Of Eglin Rd 221	 G3NW0170

RELINQUISHED BY(SIGNATURE):

Heather Schmuki

DATE/TIME:

8/31/2020; 14:56

THIS SECTION TO BE COMPLETED BY LABORATORY

Rec'd/Inspected By: *KJ*

Rec'd/Inspected Date: *9-2-12/1200*



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2020

Meter Passed End
of Day CCV
Yes / No

WIN Station Name: Juniper Creek Upstream Of Eglin Rd 221

Date: 8/31/2020

WIN/Field ID: G3NW0170

WBID: 468

ENR:

Latitude: 30.60802

County: OKALOOSA

Org ID: 21FLPNS

Longitude: -86.52277

Receiving Body of Water: Choctawhatchee - St. Andrew

RQ- 2020-08-24-18

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
☒	Heather Schmuki	☒	☒			
☒	Christopher Stopher Slade		☒	☒	☒	
☐						
☐						

Sampling Equipment	
☒ Sample Container	☐ Carboy
☐ Dipper	☐ Van Dorn
☒ Syringe	☐ Pole
Depth measured with: Sonar	
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# PLACEHOLDER

Photos: No

Flow: FLOW

Tide:

Tide Times:

High:

Low:

Biological Samples Collected: ☒ None ☐ HA ☐ SCI ☐ RPS ☐ Algae ID ☐ LVS ☐ LVI Other:

SBIO ID Numbers:

Notes:

Ysi 155077 ; R-QUALIFIED

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-2020-08-24-18

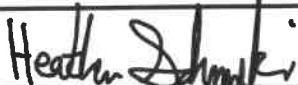
Customer: WQAP

Project ID: SMP

Collected By: Heather Schmuki, Christopher Stopher Slade

Field Report Prepared By: Heather Schmuki

Sampling Agency: FDEP

Place Label Here						Comments:				
WIN ID/Field ID:  G3NW0170										
Location: Juniper Creek Upstream Of Eglin Rd 221										
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 (PPTH)
8/31/2020	09:21 CEN	8.37	96.6	22.4	4.45	0.2	0.4 ☒ VOB (S)	0.4	13.2	0
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-5-A-TP				☒ Ice ☒ H2SO4*		☒ <2	1	C
		Lot # 9301030		Exp: 10/28/20						
Metals (P-500ML)		☐ W-ICPMS ☐ W-ICP ☐ W-HARD				☐ Ice ☐ HNO3*		☐ <2		
		Lot #		Exp:						
Filtered Nutrients (P125ML)		☒ W-P04-F ☐ Field Filtered 0.45 µm Filter				☒ Ice			1	C
		Filter Lot # 17097890								
		Syringe Lot # 0079929								
Chlorophyll (BP-1L)		☒ CHLSUITE-W				☒ Ice			1	C
Physical/Aggregate (Fresh) (P-1L)		☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CL-IC / W-COLOR / W-SO4-IC / W-TDS				☒ Ice			1	C
Physical/Aggregate (Marine) (P-1L)		☐ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY				☐ Ice				
Macroinvertebrates (PJ-2L)		☐ MI-FW-QLDC				☐ Formalin				
Periphyton (PT-50ML)		☐ ALGAE-ID				☐ Ice				
Microbiology (Contract Lab Bottle)		☒ E Coli ☐ F Coli ☐ Enterococci ☐ Contract Lab				☒ Ice			1	C
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				
						☐ Ice				
Name: Heather Schmuki Christopher Stopher Slade					Signature: 					Date: 8/31/2020

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution



RQ-2020-08-24-18

Customer: WQAP

Project ID: SMP

Collected By: Heather Schmuki, Christopher Stopher Slade

Field Report Prepared By: Heather Schmuki

Sampling Agency: FDEP

Place Label Here						Comments:				
WIN ID/Field ID: 										
G3NW0162										
Location: Shaw Still Branch Upstream E College Blvd										
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)
8/31/2020	09:51 CEN	7.45	88.8	24.1	6.05	0.05	0.1 ☒ VOB (S)	0.1	207.2	0.1
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	Aq
		Lot #		9301030		Exp:		10/28/20		
Metals (P-500ML)		☐ W-ICPMS ☐ W-ICP ☐ W-HARD				☐ Ice ☐ HNO3*		☐ <2		
		Lot #				Exp:				
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				
Periphyton (PT-50ML)		☐ ALGAE-ID				☐ Ice				
Microbiology (Contract Lab Bottle)		☒ E Coli ☐ F Coli ☐ Enterococci				☒ Ice			1	A
		☐ 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			1	A
Pesticides (BG-500ML) (BG-1L)		☐ W-E8321-DI ☐ WE8321-MS ☐ W-PSNP-TQ ☐ W-CT-CL-R				☐ Ice				
		☐ W-PCL-SQ-R ☐ W-CARB-AA (5 ml of MCAA** Buffer Solution)								
						☐ Ice				
Name: Heather Schmuki Christopher Stopher Slade					Signature: 					Date: 8/31/2020

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2020

Meter Passed End
of Day CCV
Yes / No

WIN Station Name: Shaw Still Branch Upstream E College Blvd

Date: 8/31/2020

WIN/Field ID: G3NW0162

WBID: 658

ENR:

Latitude: 30.53473

County: OKALOOSA

Org ID: 21FLPNS

Longitude: -86.45358

Receiving Body of Water: Choctawhatchee - St. Andrew

RQ- 2020-08-24-18

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
☒	Heather Schmuki	x		x		
☒	Christopher Stopher Slade		x		x	x
☐						
☐						

Sampling Equipment	
☒ Sample Container	☐ Carboy
☐ Dipper	☐ Van Dorn
☒ Syringe	☐ Pole
Depth measured with: Sonar	
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# PLACEHOLDER

Photos: No

Flow: FLOW

Tide:

Tide Times:

High: Low:

Biological Samples Collected: ☒ None ☐ HA ☐ SCI ☐ RPS ☐ Algae ID ☐ LVS ☐ LVI Other:

SBIO ID Numbers:

Notes:

YSI 155077 R-QUALIFIED

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_DDMYYYY)

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)



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2020

Meter Passed End
of Day CCV
Yes / No

WIN Station Name: Eagle Creek Upstream Of Hwy 20

Date: 8/31/2020

WIN/Field ID: G3NW0151

WBID: 751

ENR:

Latitude: 30.46382

County: WALTON

Org ID: 21FLPNS

Longitude: -86.37622

Receiving Body of Water: Choctawhatchee - St. Andrew

RQ- 2020-08-24-18

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
☒	Heather Schmuki	☒	☒	☒	☒	☒
☒	Christopher Stopher Slade	☒	☒	☒	☒	☒
☐		☐	☐	☐	☐	☐
☐		☐	☐	☐	☐	☐

Sampling Equipment	
☒ Sample Container	☐ Carboy
☐ Dipper	☐ Van Dorn
☒ Syringe	☐ Pole
Depth measured with: Sonar	
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# PLACEHOLDER	
Photos: NO	Flow: FLOW	Tide: RISING	Tide Times: High: 1110 Low: 2058
Biological Samples Collected: ☒ None ☐ HA ☐ SCI ☐ RPS ☐ Algae ID ☐ LVS ☐ LVI Other:			
SBIO ID Numbers:			
Notes: Ysi 155077			

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_DDMYYYY)
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-2020-08-24-18

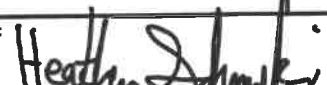
Customer: WQAP

Project ID: SMP

Collected By: Heather Schmuki, Christopher Stopher Slade

Field Report Prepared By: Heather Schmuki

Sampling Agency: FDEP

Place Label Here						Comments:				
WIN ID/Field ID: 										
G3NW0151										
Location: Eagle Creek Upstream Of Hwy 20										
Matrix: Marine						(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)
8/31/2020	10:17 CEN	3.29	42.2	27.5	4.66	0.3	0.6 ☒ VOB (S)	0.6	35.1	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	B
		Lot #		9301030		Exp:		10/28/20		
Metals (P-500ML)		☐ W-ICPMS ☐ W-ICP ☐ W-HARD				☐ Ice ☐ HNO3*		☐ <2		
		Lot #				Exp:				
Filtered Nutrients (P125ML)		☒ W-P04-F ☒ Field Filtered 0.45 µm Filter				☒ Ice			1	B
		Filter Lot #		17097890						
		Syringe Lot #		0079929						
Chlorophyll (BP-1L)		☒ CHLSUITE-W				☒ Ice			1	B
Physical/Aggregate (Fresh) (P-1L)		☐ Alkalinity / W-F / W-TSS / TURBIDITY / W-CHC / W-COLOR / W-SO4-IC / W-TDS				☐ Ice				
Physical/Aggregate (Marine) (P-1L)		☒ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY				☒ Ice			1	B
Macroinvertebrates (PJ-2L)		☐ MI-FW-QLDC				☐ Formalin				
Periphyton (PT-50ML)		☐ ALGAE-ID				☐ Ice				
Microbiology (Contract Lab Bottle)		☒ E Coli ☒ F Coli ☐ Enterococci				☒ Ice			1	B
		☐ 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 ☐ W-PSNP-TQ ☐ W-CT-CL-R				☐ Ice				
		☐ W-PCL-SQ-R ☐ W-CARB-AA (5 ml of MCAA** Buffer Solution)				☐ Ice				
						☐ Ice				
Name: Heather Schmuki Christopher Stopher Slade					Signature: 				Date: 8/31/2020	

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution

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Amount of investment	Days off	on the water
1000	10	10
2000	20	20
3000	30	30
4000	40	40
5000	50	50
6000	60	60
7000	70	70
8000	80	80
9000	90	90
10000	100	100

Expenditure approved by _____

[illegible]

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18/11/2020 14:31

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402, 412, 418, 424, 430, 436, 442, 448, 454, 460, 466, 472, 478, 484, 490, 496, 502, 508, 514, 520, 526, 532, 538, 544, 550, 556, 562, 568, 574, 580, 586, 592, 598, 604, 610, 616, 622, 628, 634, 640, 646, 652, 658, 664, 670, 676, 682, 688, 694, 700, 706, 712, 718, 724, 730, 736, 742, 748, 754, 760, 766, 772, 778, 784, 790, 796, 802, 808, 814, 820, 826, 832, 838, 844, 850, 856, 862, 868, 874, 880, 886, 892, 898, 904, 910, 916, 922, 928, 934, 940, 946, 952, 958, 964, 970, 976, 982, 988, 994, 1000, 1006, 1012, 1018, 1024, 1030, 1036, 1042, 1048, 1054, 1060, 1066, 1072, 1078, 1084, 1090, 1096, 1102, 1108, 1114, 1120, 1126, 1132, 1138, 1144, 1150, 1156, 1162, 1168, 1174, 1180, 1186, 1192, 1198, 1204, 1210, 1216, 1222, 1228, 1234, 1240, 1246, 1252, 1258, 1264, 1270, 1276, 1282, 1288, 1294, 1300, 1306, 1312, 1318, 1324, 1330, 1336, 1342, 1348, 1354, 1360, 1366, 1372, 1378, 1384, 1390, 1396, 1402, 1408, 1414, 1420, 1426, 1432, 1438, 1444, 1450, 1456, 1462, 1468, 1474, 1480, 1486, 1492, 1498, 1504, 1510, 1516, 1522, 1528, 1534, 1540, 1546, 1552, 1558, 1564, 1570, 1576, 1582, 1588, 1594, 1600, 1606, 1612, 1618, 1624, 1630, 1636, 1642, 1648, 1654, 1660, 1666, 1672, 1678, 1684, 1690, 1696, 1702, 1708, 1714, 1720, 1726, 1732, 1738, 1744, 1750, 1756, 1762, 1768, 1774, 1780, 1786, 1792, 1798, 1804, 1810, 1816, 1822, 1828, 1834, 1840, 1846, 1852, 1858, 1864, 1870, 1876, 1882, 1888, 1894, 1900, 1906, 1912, 1918, 1924, 1930, 1936, 1942, 1948, 1954, 1960, 1966, 1972, 1978, 1984, 1990, 1996, 2002, 2008, 2014, 2020, 2026, 2032, 2038, 2044, 2050, 2056, 2062, 2068, 2074, 2080, 2086, 2092, 2098, 2104, 2110, 2116, 2122, 2128, 2134, 2140, 2146, 2152, 2158, 2164, 2170, 2176, 2182, 2188, 2194, 2200, 2206, 2212, 2218, 2224, 2230, 2236, 2242, 2248, 2254, 2260, 2266, 2272, 2278, 2284, 2290, 2296, 2302, 2308, 2314, 2320, 2326, 2332, 2338, 2344, 2350, 2356, 2362, 2368, 2374, 2380, 2386, 2392, 2398, 2404, 2410, 2416, 2422, 2428, 2434, 2440, 2446, 2452, 2458, 2464, 2470, 2476, 2482, 2488, 2494, 2500, 2506, 2512, 2518, 2524, 2530, 2536, 2542, 2548, 2554, 2560, 2566, 2572, 2578, 2584, 2590, 2596, 2602, 2608, 2614, 2620, 2626, 2632, 2638, 2644, 2650, 2656, 2662, 2668, 2674, 2680, 2686, 2692, 2698, 2704, 2710, 2716, 2722, 2728, 2734, 2740, 2746, 2752, 2758, 2764, 2770, 2776, 2782, 2788, 2794, 2800, 2806, 2812, 2818, 2824, 2830, 2836, 2842, 2848, 2854, 2860, 2866, 2872, 2878, 2884, 2890, 2896, 2902, 2908, 2914, 2920, 2926, 2932, 2938, 2944, 2950, 2956, 2962, 2968, 2974, 2980, 2986, 2992, 2998, 3004, 3010, 3016, 3022, 3028, 3034, 3040, 3046, 3052, 3058, 3064, 3070, 3076, 3082, 3088, 3094, 3100, 3106, 3112, 3118, 3124, 3130, 3136, 3142, 3148, 3154, 3160, 3166, 3172, 3178, 3184, 3190, 3196, 3202, 3208, 3214, 3220, 3226, 3232, 3238, 3244, 3250, 3256, 3262, 3268, 3274, 3280, 3286, 3292, 3298, 3304, 3310, 3316, 3322, 3328, 3334, 3340, 3346, 3352, 3358, 3364, 3370, 3376, 3382, 3388, 3394, 3400, 3406, 3412, 3418, 3424, 3430, 3436, 3442, 3448, 3454, 3460, 3466, 3472, 3478, 3484, 3490, 3496, 3502, 3508, 3514, 3520, 3526, 3532, 3538, 3544, 3550, 3556, 3562, 3568, 3574, 3580, 3586, 3592, 3598, 3604, 3610, 3616, 3622, 3628, 3634, 3640, 3646, 3652, 3658, 3664, 3670, 3676, 3682, 3688, 3694, 3700, 3706, 3712, 3718, 3724, 3730, 3736, 3742, 3748, 3754, 3760, 3766, 3772, 3778, 3784, 3790, 3796, 3802, 3808, 3814, 3820, 3826, 3832, 3838, 3844, 3850, 3856, 3862, 3868, 3874, 3880, 3886, 3892, 3898, 3904, 3910, 3916, 3922, 3928, 3934, 3940, 3946, 3952, 3958, 3964, 3970, 3976, 3982, 3988, 3994, 4000, 4006, 4012, 4018, 4024, 4030, 4036, 4042, 4048, 4054, 4060, 4066, 4072, 4078, 4084, 4090, 4096, 4102, 4108, 4114, 4120, 4126, 4132, 4138, 4144, 4150, 4156, 4162, 4168, 4174, 4180, 4186, 4192, 4198, 4204, 4210, 4216, 4222, 4228, 4234, 4240, 4246, 4252, 4258, 4264, 4270, 4276, 4282, 4288, 4294, 4300, 4306, 4312, 4318, 4324, 4330, 4336, 4342, 4348, 4354, 4360, 4366, 4372, 4378, 4384, 4390, 4396, 4402, 4408, 4414, 4420, 4426, 4432, 4438, 4444, 4450, 4456, 4462, 4468, 4474, 4480, 4486, 4492, 4498, 4504, 4510, 4516, 4522, 4528, 4534, 4540, 4546, 4552, 4558, 4564, 4570, 4576, 4582, 4588, 4594, 4

Contact name: Richard Kline

Phone (850) 595-8700

Address 160 W. Governmental Street, Box 268, Bayanada, WI 53001

Abbrev. SW = surface water, PW = pore water, GW = ground water, S = subsurface, X =

¹⁷ Here g is a group, C is a constant, $X =$ (2)

Biological name: *S. sl. 16*

^a Reproduced with permission.

Table 1

Case 1

Sete: 104425

4617 10,00 LBS

224

Environ Biol Fish (2015) 98:1231–1242

SPECIAL

0.00 TOTAL

64 22: 尹君君君 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041 1042 1043 1044 1045 1046 1047

Weathering Research Laboratory

[illegible]

Eurofins TestAmerica, Pensacola
 3315 McLamore Drive
 Pensacola, FL 32514-7043
 phone 850 474 1001 fax 850 474 4700 or 810 470 2671

Chain of Custody Record

3 eurofins

Regulatory Program: ☐ SW ☐ NPDES ☐ RCRA ☐ Other TMDL

TestAmerica Laboratory #102 850 474 4700 or 810 470 2671

Client Contact Florida Department of Environmental Protection 800 West State Rd Tallahassee, FL 32301 Phone _____ FAX _____ Project Name: NPDES SW-102-002-000000-102 Site: Eagle Run-Eagle Date: 09-24-18 G8 BTCP		Project Manager: Kait Sprague Email: kait.sprague@eurofins.com Tel/Fax: 850-245-8826 Analysis Turnaround Time ☐ CHEMICAL DATA ☐ MICROBIOLOGY ☐ 1-2 days from receipt ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Contact: Stephen Stude Contact # 850-295-0567 Name: <u>ELI T. L.</u> Carrier: <u>Hand delivered</u> Date: <u>9/26/18</u> For Lab Use Only: Mark in Chain Lab Sampling Lab # 102		
Sample Identification G3NW151 Eagle Creek		Sample Date <u>9/26/18</u>	Sample Time (CTZ) <u>10:17</u>	Sample Type (Source, Medium) <u>G</u>	# of Containers <u>W 1</u>	# of Containers <u>N</u>
Preservation: (See EPA 8160-G-03-001, 8160-G-04-001, 8160-G-05-001, 8160-G-06-001) Preserve beyond month: _____						
How long samples were in direct EPA Hazardous Waste? Please use any EPA Hazard Codes for the samples in the Comments Section if the lab is to dispose of the sample. ☐ No Hazard ☐ Hazardous ☐ Not Hazardous ☐ Hazardous ☐ Not Hazardous ☐ Hazardous ☐ Not Hazardous ☐ Hazardous ☐ Not Hazardous						
Special Instructions/Comments/Requirements & Comments: 2.1°C 1026						
Customer Facility Name: _____ Facility Address: <u>H. Schmidt</u> State/Zip: _____ Phone: _____		Customer Site No.: _____ Company: <u>FDEP</u> Date/Time: <u>9/26/18</u> Received by: _____		Chain Temp. (°C): <u>2.1°C</u> Cor'd: _____ Chain ID No.: _____ Company: _____ Date/Time: _____ Received in Laboratory by: <u>Kait Sprague</u> Company: <u>ETA</u> Date/Time: <u>9/26/18 1330</u>		

Date of Request: 30-JUL-2020
 Created By: KING_M On: 30-JUL-2020
 Modified By: JASROTIA_P On: 04-AUG-2020
 Customer: NW-DIST
 Project: SMP
 Division: Division of Environmental Assessment and Restoration
 District: Northwest District
 Event Description: Eglin Run East

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: 04-AUG-2020
 Biology Request Reviewed By: JASROTIA_P On: 04-AUG-2020
 Sampling Kit Required: YES Ship on: 14-AUG-2020
 Sampling Kit Shipped: YES On: 10-AUG-2020
 Sampling Kit Packed By: REYNOLDS_T
 Preservatives Needed: NO
 Date to Receive Samples: 24-AUG-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: Freshwater
 (WBID 658) Nutrients, Tracers, Contract Lab Bacteria
 Group B: Marine
 (WBID 751) Nutrients, Contract Lab Bacteria
 Group C: Freshwater
 (WBID 468) Nutrients, Contract Lab Bacteria

Bottle Group A (Water) With 1 Samples:

Bottle Type: P-1L	Number of Bottles: 1	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: 1	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: 1	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: 1	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: 1	Preserved With: ICE And H ₂ SO ₄
W-NH ₃	Template: DEFAULT	(EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L

Bottle Group A (Water) With 1 Samples:

Bottle Type: P-500ML	Number of Bottles: 1	Preserved With: ICE And H2SO4
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: 1	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 Group B (Water) With 1 Samples:

Bottle Type: TEST HAS NO	Number of Bottles: 1	Preserved With: ICE
NW-UWF-ENQ	Template: DEFAULT	(Enterolert/QT) Enterococci by Enterolert/QT by UWF in Pensacola
Bottle Type: P-500ML	Number of Bottles: 1	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: 1	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: P-1L	Number of Bottles: 1	Preserved With: ICE
ALKALINITY	Template: DEFAULT	(SM 2320 B-2011) Alkalinity in aqueous matrices as mg CaCO3/L
TURBIDITY	Template: DEFAULT	(EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices
W-BR-IC	Template: DEFAULT	(EPA 300.0 Rev. 2.1) Bromide in aqueous matrices
W-F	Template: DEFAULT	(SM 4500 F-C-2011) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
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: 1	Preserved With: ICE
CHLSUITE-W	Template: DEFAULT	(SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry
Bottle Type: P-250ML-WI-THI	Number of Bottles: 1	Preserved With: ICE
NW-TA-FC	Template: DEFAULT	(SM 9222 D) Fecal coliforms by MF by Test America in Pensacola

Bottle Group C (Water) With 1 Samples:

Bottle Type: P-1L	Number of Bottles: 1	Preserved With: ICE
ALKALINITY	Template: DEFAULT	(SM 2320 B-2011) Alkalinity in aqueous matrices as mg CaCO3/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-SO4-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: 1	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: 1	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: P-500ML	Number of Bottles: 1	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: 1	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

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