

RQ-2019-12-09-42

Field Personnel processing steps

☐ New Field IDs created (when using a new station) Date: _____ initials: _____ ☒ NA

☐ Create entry in SMPStationCreationFile if new station is used

\\Fidep1\wqap\NW ROC\TMDL\WIN_Station Creation

☒ Date sampled Date: 12/12/19 initials: MM

☒ Update "SMP Tracker" Date: 12/13/19 initials: MM

☐ Photos put into archive Date: _____ initials: _____ ☒ NA

☒ Copy of Calibration Log for YSI used

☒ Field Sheets initialed/dated @ "Scan/Save Field Sheets" then scanned and saved into:

Scans_ToBeProcessed Date: 12/13/19 initials: MM

Scan order; Cover Sheet, Calibration Log, Field Sheets, Tallahassee Submittal Sheets, Overflow Lab COC

☒ Update "Data Tracker"

\\publicfiles\pubfds\DEAR\WQAPmonitoring\StrategicMonitoring\2019\21FLPNS

Ready for folder system (top)

LIMS processing (to be completed by LIMS data personnel) (MC)

☐ Field parameters entered into LIMS Date: _____ initials: _____

☐ Digital RQ packet put into

SMP 2019/Data/Scanned Field Sheets Date: _____ initials: _____

☐ Digital field Sheets put into archive Date: _____ initials: _____

☐ Date submitted for QA/QC Date: _____ initials: _____

☐ Update "Data Tracker"

Database processing (Cheryl)

☐ Field parameters QA/QC in LIMS Date: _____ initials: _____

☐ Lab results put into archive (CB) Date: _____ initials: _____

☐ Data migrated to WINS Date: _____ initials: _____

☐ Update "Data Tracker"

Notes:

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: 155077

RQ: 2019-12-04-42

Project: SMP

- 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 10/17/19

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.											P / F	L / F
ICV											P / F	L / F
CCV	H. Schmuck	12/12/19	0729	20.1	769.8	9.2	9.20	100.1			(P) F	(L) F
CCV	H. Schmuck	12/12/19	1505	18.1	766.6	9.5	9.47	99.6			(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.	H. Schmuck	12/12/19	0732	19016A	1/20	1000	1000	(P) F	(L) F
ICV	H. Schmuck	12/12/19	0734	180517A	1/20	100	98.8	(P) F	(L) F
CCV	H. Schmuck	12/12/19	1508	19016A	1/20	1000	989	(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.	H. Schmuck	12/12/19	0742	2904882	3/21	7.02	19.1	7.02	-17.3	(P) F	(L) F
Calibr.	H. Schmuck	12/12/19	0744	4902325	2/21	4.61	20.5	4.01	161.4	(P) F	(L) F
Calibr.	H. Schmuck	12/12/19	0746	4904E09	9/20	10.05	20.6	10.05	-187.8	(P) F	(L) F
ICV	H. Schmuck	12/12/19	0748	4902325	2/21	4	20.3	4.03	160.4	(P) F	(L) F
CCV	H. Schmuck	12/12/19	1509	2904882	3/21	7	19.6	7.10	-18.7	(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: 10/17/19
 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	H. Schmuck	12/12/19	0749	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 STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

WIN Station Name: Direct Runoff to Choctawhatchee Bay below Oregon Drive

Date: 12/12/2019
(mm/dd/yyyy)

WIN/ Field ID: G3NW0001

WBID: 874

Latitude: 30.41739

(Decimal Degrees)

County: Okaloosa

ORG ID: 21FLPNS

Longitude: -86.60062

(Decimal Degrees)

Receiving Body of Water: Lake Earl

RQ: 2019-12-09-42

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
H. Schumki					X	X			
N. Mulkey						X		X	X

Sampling Equipment		
☒ Sample Container	☐ Van Dorn	☐ Pole
☐ Carboy	☐ Syringe	
☐ Dipper	☐ Other	
Depth Measured with <u>Pro DS5</u>		
Equipment ID		

Collection Method	
☒ Wading	☐ Canoe/Kayak
☐ From Shore	☐ Electric Motor
☐ Other	☐ Gasoline Motor

Water Level: Dry/ Pooled/ Low / Normal / High / Flooded

Meter ID# 155077

Matrix: Fresh Marine / DI

Photos: Yes No

Flow: No Flow / Intestinal / Flowing / NA

Tide: Rising/ Falling/ Slack/ NA

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 (µmhos/cm)	Temp. (C°)
EST	1035	0.183	0.09	0.18	3.46	35.1	5.99	0.12	250.2	16.1
<u>CEN</u>				<u>0.03</u>						

Biological Samples Collected: None 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	<u>9129100</u>	<u>5/1/20</u>	<u>8</u> <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3			☐ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm 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	☐ ME-FW-QLDC	☐ Formalin			
Periphyton	☐ ALGAE-ID	☐ Ice			
Microbiology	☒ E Coli ☐ F Coli ☐ Enterococci	☐ Ice			
Molecular	☐ PCR-FILTER ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-HFL83 ☐ PCR-DG3 ☐ PCR-GPD	☐ Ice			
Tracers	☐ W-E8321-DI ☐ W-E8321-MS	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-E8321-OI ☐ W-PCL-SQ-R ☐ WE8321-MS ☐ W-CARB-AA	☐ Ice			
Phytoplankton	☐ DTY-QN-C ☐ PKD-QN-C				

Notes: B

Field/WIN ID → G3NW0001

Location: Direct Runoff to Choctawhatchee Bay below Oregon Drive

Signature: Hedh Date: 12/12/2019

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 (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 2019

Data Qualified?

Yes / No

WIN Station Name: **Juniper Creek upstream of Eglin Rd 221**

Date: 12/12/2019
(mm/dd/yyyy)

WIN/ Field ID: **G3NW0170**

WBID: **468**

Latitude: **30.608018**

(Decimal Degrees)

County: **Okaloosa**

ORG ID: **21FLPNS** Longitude: **-86.522770**

(Decimal Degrees)

Receiving Body of Water: **Turkey Creek**

RQ: 2019-12-09-42

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment		
<u>H. Schmitz</u> <u>N. Mulkey</u>					☒	☒	☒	☒	☒	☒ Sample Container	☐ Van Dorn	☐ Pole
										☐ Carboy	☒ Syringe	
										☐ Dipper	☐ Other	
										Depth Measured with <u>ProDS</u>		
Equipment ID <u>155077</u>					Collection Method							
					☒ Wading			☐ Canoe/Kayak				
					☐ From Shore			☐ Electric Motor				
					☐ Other			☐ Gasoline Motor				

Water Level: Dry/ Pooled/ Low Normal / High / Flooded

Meter ID# 155077

Matrix: Fresh / Marine / DI

Photos: Yes / No Flow: No Flow / Intestinal / Flowing / NA

Tide: Rising/ Falling/ Slack NA

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	1241	0.23	0.10	0.21	9.56	96.5	4.57	0.01	14.0	16.3
<u>CEN</u>				<u>(VOR)</u>						

Biological Samples Collected: None 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	<u>9129100</u>	<u>5/9/20</u>	☒ <2
Metals	☒ W-ICPMS ☒ W-ICP	☒ Ice ☒ HNO3			☐ <2 <u>HS</u>
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	☐ M-FW-QD-C	☐ Formalin			
Periphyton	☐ ALGAE-ID	☐ Ice			
Microbiology	☒ E Coli ☐ F Coli ☐ Enterococci	☒ Ice			
Molecular	☐ PCR-FILTER ☐ PCR-Ba-R ☐ PCR-GUL2 ☐ PCR-HF183 ☐ PCR-DG3 ☐ PCR-GFD	☐ Ice			
Tracers	☐ W-EB321-DI ☐ W-EB321-MS	☐ Ice			
Pesticides	☐ W-PSNA-TQ ☐ W-CT-CL-R ☐ W-EB321-DI ☐ W-PC1-SQ-R ☐ W-EB321-MS ☐ W-CARB-AA	☐ Ice			
Phytoplankton	☐ DTY-QN-C ☐ PKD-QN-C	☐ Ice			

Notes: B 5625 DUP + Blank (CE) no metals

Field/WIN ID → G3NW0170

Location: Juniper Creek upstream of Eglin Rd 221

Signature: Heather Schmitz Date: 12/12/2019

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 (Initials/Date) Migrate Data to WIN: (Initials/Date) Verify Data In WIN: (Initials/Date)

QA/QC Sample Information
Duplicate

Time Zone: EST <u>CEN</u>		Time: <u>1250</u>		Field ID: <u>63NW0170-Dup</u> (WIN ID_DUP)	
WIN DMT Activity ID:					
Parameter Suite	Parameter Methods	Preservation	Lot#	Expiration	pH Check
Preserved Nutrients	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☒ Ice ☒ H ₂ SO ₄	<u>9129100</u>	<u>5/9/20</u>	☒ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO ₃			☐ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm 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			
Microbiology	☒ E Coll ☐ F Coll ☐ Enterococci	☒ Ice			
Molecular	☐ PCR-FILTER ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-HF183 ☐ PCR-DG3 ☐ PCR-GFD	☐ Ice			
Tracers	☐ W-E3821-MS ☐ W-E3821-DI	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-E3821-DI ☐ W-CT-CL-R ☐ W-PCL-SQ-R ☐ W-E-3821-MS ☐ W-CARB-AA	☐ Ice			

Blank

Time Zone: EST <u>CEN</u>		Time: <u>1255</u>		Field ID: <u>Field blank 12122019</u> (Blank Type_DDMYYYY)	
DI Source: <u>Carbon Peak Ice Ram</u>		Location: <u>Juniper Creek upstream of Eglin Rd 221</u>			
☒ Field Blank ☐ Equipment Blank ☐ Field Cleaned Equipment Blank		Equipment ID: <u>NW Roc III</u>			
WIN DMT Blank Batch ID:					
Parameter Suite	Parameter Methods	Preservation	Lot#	Expiration	pH Check
Preserved Nutrients	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☐ Ice ☐ H ₂ SO ₄	<u>9129100</u>	<u>5/9/20</u>	☒ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO ₃			☐ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ 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-F / W-TSS / TURBIDITY	☐ Ice			
Tracers	☐ W-E3821-MS ☐ W-E3821-DI	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-E3821-DI ☐ W-CT-CL-R ☐ W-PCL-SQ-R ☐ W-E3821-MS ☐ W-CARB-AA	☐ Other			

Notes:

Field/WIN ID → 
FB_12122019

Location:
Juniper Creek upstream of Eglin Rd 221

Field/WIN ID → 
G3NW0170_DUP

Location:
Juniper Creek upstream of Eglin Rd 221

Signature: 	Date: <u>12/12/2019</u>
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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)

Scan/Save Field Sheets _____ Migrate Data to WIN: _____ Verify Data In WIN: _____
(Initials/Date) (Initials/Date) (Initials/Date)

Customer: NW-DIST

Project ID: SMP

Requester: Michael King

Michael King

Field Report Prepared By:

Collected By: W. Miller

Sampling Agency: PN5

Field/WIN ID →					
G3NW0001					
Location:					
Direct Runoff to Choctawhatchee Bay below Oregon Drive					
Lz					
F	V	L			

Field/WIN ID →					
G3NW0170					
Location:					
Juniper Creek upstream of Eglin Rd 221					
Lz					
F	V	L			

Field/WIN ID →					
G3NW0170_DUP					
Location:					
Juniper Creek upstream of Eglin Rd 221					
Lz					
F	V	L			

Field/WIN ID →					
FB_12122019					
Location:					
Juniper Creek upstream of Eglin Rd 221					
Lz					
F	V	L			

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
H Schmidt	12/17/19 11:00	Fedex	1		

Document Reference # 05.1.0

Laboratory: Wetlands Research Laboratory

Sampler's initials: WAS

Page 1 of 1
Date/Time: 12/12/19, 1407
Date/Time: 12/12/19, 1407

Instructions: Fill in all fields except "Lab ID" on sample transport form completely. Each sample container must use a separate line. Place this form in a waterproof bag and place it with the samples for transport. Attach a field log or other chain of custody if attached; that information may be referenced on this form and the log or COC attached.

Lab ID	Sample ID	Matrix ¹	Type ²	Container Type	Analyses Requested	Preservative	Sample (°C) ³	Sampling Date/Time
19-46006	G3NW0001 Direct Runoff	SW	G	Sterile plastic	Escherichia coli 18-QT	Ice/Na2S2O3	2.3	12/12/19; 1035
19-46007	G3NW0170 Juniper Creek	SW	G	Sterile plastic	Escherichia coli 18-QT	Ice/Na2S2O3	1.7	12/12/19; 1241
19-46008	G3NW0170 DUP Juniper Creek	SW	G	Sterile plastic	Escherichia coli 18-QT	Ice/Na2S2O3	1.6	12/12/19; 1250

[illegible]

Comments	sample container lot#	#
	18145, 19229, 19192	

RQ-2019-12-09-42

Contact organization
FDEP

Contact name Michael King

Phone: (850) 595-8300

Address 160 W Governmental Street suite 208 Pensacola, FL 32502

Sampler's name: N. M. V. K. G.

Address _____ 100 W Governmental Street, Suite 200, San Jose, CA 95128

Motivation: GW = ground water PW = pore water GW = ground water S = soil/sediment X = _____ SW

³ Recorded using IRT-2.

2-Type codes: $G = \text{graph}$ $C = \text{composite}$ $X =$