RQ-2019-11-04-55

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

\\Fldep1\wqap\NW ROC\TMDL\WIN_Station Creation

☒ Date sampled Date: 11/07/2019 initials: HS

☐ Update MAT Date: _____ initials: _____

☒ Update "SMP Tracker" Date: 11/08/2019 initials: HS

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

☐ RQ Sheet – from LIMS (display/print request)

☐ Field Sheets initialed/dated @ "Scan/Save Field Sheets" then scanned (with calibration logs) and saved into:

Scans_ToBeProcessed Date: 11/08/2019 initials: HS

☒ 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: 154179 RQ- 2019-11-04-55 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	Barometer 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	11/07/19	0641	22.4	769.2	8.8	8.65	98.8			(P) / F	(L) / F
CCV	M Clark	11/7/19	16:00	24.8	766.6	8.4	8.40	100.4			(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 µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	H Schmuck	11/07/19	0644	190116A	01/20	1000	1000	(P) / F	(L) / F
ICV	H Schmuck	11/07/19	0646	190618A	06/20	100	101.7	(P) / F	(L) / F
CCV	↓	↓	16:04	190618A	6/20	100	104.8	(P) / F	(L) / F
CCV								P / F	L / F

Conductivity Acceptance criteria ± 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	11/07/19	0648	190405E	10/20	7.	22.0	7.01	-78.7	(P) / F	(L) / F
Calibr.	H Schmuck	11/07/19	0651	190405F	10/20	4.	23.3	4.01	94.5	(P) / F	(L) / F
Calibr.	H Schmuck	11/07/19	0654	4904E09	9/20	10.	23.4	10.03	-237.5	(P) / F	(L) / F
ICV	H Schmuck	11/07/19	0655	190405F	10/20	4	23.1	4.01	91.8	(P) / F	(L) / F
CCV	M. Clark	11/7/19	16:06	190405E	10/20	7.0	21.7	7.18	-61.5	(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 ± 50; mV pH 10 Range -180 ± 50;
If mV are recorded: slope from 7 to 10 158.6, slope from 4 to 7 173.4 (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	11/07/19	0657	0.000	0.000	(P) / F	(L) / F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria ± 5 % or ± 0.05m, whichever is greater.

COMMENTS:

Form effective August 1, 2018

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: 154179 RQ- 2019 - 11- 04-53 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	Barometer 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	M Clark	11/5/19	7:01	22.0	769	8.8	8.76	99.2			P / F	L / F
CCV	H Schmuck	11/5/19	1239	21.6	769	8.9	8.96	100.4			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 µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	M. Clark	11/5/19	7:03	190116A	1/20	1000	1000	P / F	L / F
ICV	↓	↓	7:05	190618A	6/20	100	101.8	P / F	L / F
CCV	H Schmuck	11/5/19	1241	190116A	1/20	1000	986	P / F	L / F
CCV								P / F	L / F

Conductivity Acceptance criteria ± 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.	M. Clark	11/5/19	7:07	190405E	10/20	7.	21.0	7.02	-7.8	P / F	L / F
Calibr.	↓		7:09	190405F	10/20	4.	21.6	4.00	91.1	P / F	L / F
Calibr.	↓		7:11	190409	9/20	10.	20.8	10.00	-231.9	P / F	L / F
ICV	↓		7:13	190405F	10/20	4.0	21.3	3.98		P / F	L / F
CCV	H Schmuck	11/5/19	1247	190405E	10/20	7	21.6	7.14	-77.7	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 ± 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	M Clark	11/5/19	7:15	0.00	0.00	P / F	L / F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria ± 5 % or ± 0.05m, whichever is greater.

COMMENTS:

Form effective August 1, 2018

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified? Yes / No

WIN Station Name: Little Pine Barren Creek ABOVE CR 99 **Date:** 11/7/19 (mm/dd/yyyy)

WIN/ Field ID: G4NW0420 **WBID:** 87 **Latitude:** 30.89164 (Decimal Degrees)

County: Escambia **ORG ID:** 21FLPNS **Longitude:** -87.44683 (Decimal Degrees)

Receiving Body of Water: Escambia River **RQ-** 2019-11-04-55

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
HS		X		X	X
MC	X		X		

Sampling Equipment
- [x] Sample Container
- [ ] Van Dorn
- [ ] Pole
- [ ] Carboy
- [x] Syringe
- [ ] Dipper
- [ ] Other
- Depth Measured with: ProDSS
- Equipment ID:

Collection Method
- [x] Wading
- [ ] Canoe/Kayak
- [ ] From Shore
- [ ] Electric Motor
- [ ] Other
- [ ] Gasoline Motor

Water Level: Dry/ Pooled/ Low / (Normal) / High / Flooded **Meter ID#** 154179 **Matrix:** (Fresh) / Marine / DI

Photos: Yes / (No) **Flow:** No Flow / Intestital / (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 (PPTh)	Sp COND (µmhos/cm)	Temp. (C°)
EST	9:00	0.2	0.1	0.2	7.30	75.6	4.99	~~47.6~~	47.6	17.4
(CEN)				"5"				0.02		

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	[x] W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	[x] Ice [x] H_2SO_4	SA9129100	5/20	[x] <2
Metals	[ ] W-ICPMS [ ] W-ICP	[ ] Ice [ ] HNO_3			[ ] <2
Filtered Nutrients	[x] W-PO4-F [x] Field Filtered 0.45 µm Filter	[x] Ice	16918633		
Chlorophyll	[x] CHLSUITE-W	[x] Ice			
Physical/Aggregate (Fresh)	[x] Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS	[x] Ice			
Physical/Aggregate (Marine)	[ ] Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY	[ ] Ice			
Macroinvertebrates	[ ] ML-FW-QLDC	[ ] Formalin			
Periphyton	[ ] ALGAE-ID	[ ] Ice			
Microbiology	[x] E Coli [ ] F Coli [ ] Enterococci	[x] 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-CF-CL-R [ ] W-E8321-DI [ ] W-PCL-SQ-R [ ] WE8321-MS [ ] W-CARB-AA	[ ] Ice			
Phytoplankton	[ ] DTY-QN-C [ ] PKD-QN-C				

Place Preservative Sticker(s) Here (If Available)

Notes:

Field/WIN ID

G4NW0420

Location:
Little Pine Barren Creek above CR99

Signature: Amanda Clark **Date:** 11/7/19

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 2019

Data Qualified? Yes / No

WIN Station Name: Big Escambia Creek downstream of Fannie Rd **Date:** 11/7/19 (mm/dd/yyyy)

WIN/ Field ID: G4NW0421 **WBID:** 10 **Latitude:** 30.98369 (Decimal Degrees)

County: Escambia **ORG ID:** 21FLPNS **Longitude:** -87.23347 (Decimal Degrees)

Receiving Body of Water: Escambia River **RQ-** 2019- 11-OH-55

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
HS		X		X	
MC	X		X		

Sampling Equipment
- [X] Sample Container
- [ ] Van Dorn
- [ ] Pole
- [ ] Carboy
- [X] Syringe
- [ ] Dipper
- [ ] Other
- Depth Measured with: Pro DSS
- Equipment ID:

Collection Method
- [X] Wading
- [ ] Canoe/Kayak
- [ ] From Shore
- [ ] Electric Motor
- [ ] Other
- [ ] Gasoline Motor

Water Level: Dry/ Pooled/ Low / (Normal) / High / Flooded **Meter ID#** 164179 **Matrix:** (Fresh) / Marine / DI

Photos: Yes / (No) **Flow:** No Flow / Intestital / (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 (PPTh)	Sp COND (µmhos/cm)	Temp. (C°)
EST	9:45	0.2	0.1	0.2 ~5"	9.31	95.8	5.27	0.02	35.6	17.3
(CEN)										

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 Suites	Parameter Methods	Preservation	Lot#	Expiration	pH Check
Preserved Nutrients	[X] W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	[X] Ice [X] H_2SO_4	SA9129100	5/00	[ ] <2
Metals	[ ] W-ICPMS [ ] W-ICP	[ ] Ice [ ] HNO_3			[ ] <2
Filtered Nutrients	[X] W-PO4-F [X] Field Filtered 0.45 µm Filter	[X] Ice	16918633		
Chlorophyll	[X] CHLSUITE-W	[X] Ice			
Physical/Aggregate (Fresh)	[X] Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS	[X] Ice			
Physical/Aggregate (Marine)	[ ] Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY	[ ] Ice			
Macroinvertebrates	[ ] MI-FW-QLDC	[ ] Formalin			
Periphyton	[ ] ALGAE-ID	[ ] Ice			
Microbiology	[X] E Coli [ ] F Coli [ ] Enterococci	[X] 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			

Place Preservative Sticker(s) Here (If Available)

Notes:

Field/WIN ID

G4NW0421

Location: Big Escambia Creek downstream of Fannie Rd

Signature: Amanda [illegible] **Date:** 11/7/19

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 2019

Data Qualified? Yes / No

WIN Station Name: Wiggins Branch below Hwy 29 **Date:** 11/2/19 (mm/dd/yyyy)

WIN/ Field ID: G4NW0163 **WBID:** 25 **Latitude:** 30.95643 (Decimal Degrees)

County: Escambia **ORG ID:** 21FLPNS **Longitude:** -87.27608 (Decimal Degrees)

Receiving Body of Water: Escambia River **RQ-** 2019-11-04-55

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
HS		X		X	
MG	X		X		

Sampling Equipment
- [x] Sample Container
- [ ] Van Dorn
- [ ] Pole
- [ ] Carboy
- [x] Syringe
- [ ] Dipper
- [ ] Other
- Depth Measured with: ProDSS
- Equipment ID:

Collection Method
- [x] Wading
- [ ] Canoe/Kayak
- [ ] From Shore
- [ ] Electric Motor
- [ ] Other
- [ ] Gasoline Motor

Water Level: Dry/ Pooled/ (Low) / Normal / High / Flooded **Meter ID#** 154179 **Matrix:** (Fresh) / Marine / DI

Photos: Yes / (No) **Flow:** No Flow / Intestital / (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 (PPTh)	Sp COND (µmhos/cm)	Temp. (C°)
EST	12:20	0.1	0.05	0.1 "5"	5.60	59.3	5.48	0.02	49.0	18.4
(CEN)										

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	[x] W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	[x] Ice [x] H_2SO_4	SA9129100	5/20	[ ] <2
Metals	[ ] W-ICPMS [ ] W-ICP	[ ] Ice [ ] HNO_3			[ ] <2
Filtered Nutrients	[x] W-PO4-F [ ] Field Filtered 0.45 µm Filter	[x] Ice	16918633		
Chlorophyll	[x] CHLSUITE-W	[x] Ice			
Physical/Aggregate (Fresh)	[x] Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS	[x] Ice			
Physical/Aggregate (Marine)	[ ] Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY	[ ] Ice			
Macroinvertebrates	[ ] MI-FW-QLDC	[ ] Formalin			
Periphyton	[ ] ALGAE-ID	[ ] Ice			
Microbiology	[x] E Coli [ ] F Coli [ ] Enterococci	[x] 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				

Place Preservative Sticker(s) Here (If Available)

Notes:

Field/WIN ID

G4NW0163

Location:
Wiggins Branch below Highway 29

Signature: [signature] **Date:** 11/7/19

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 2019

Data Qualified? Yes / No

WIN Station Name: Big Coldwater Creek West Fork upstream of Walling Rd **Date:** 11/7/19 (mm/dd/yyyy)

WIN/ Field ID: G4NW0436 **WBID:** 11 **Latitude:** 30.843099 (Decimal Degrees)

County: Santa Rosa **ORG ID:** 21FLPNS **Longitude:** -87.088227 (Decimal Degrees)

Receiving Body of Water: Coldwater Creek **RQ-2019-** 11-04-55

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
HS		X		X	X
ML	X		X		

Sampling Equipment
- [x] Sample Container
- [ ] Van Dorn
- [ ] Pole
- [ ] Carboy
- [x] Syringe
- [ ] Dipper
- [ ] Other
- Depth Measured with: ProDSS
- Equipment ID:

Collection Method
- [x] Wading
- [ ] Canoe/Kayak
- [ ] From Shore
- [ ] Electric Motor
- [ ] Other
- [ ] Gasoline Motor

Water Level: Dry/ Pooled/ Low / (Normal) / High / Flooded **Meter ID#** 154179 **Matrix:** (Fresh) / Marine / DI

Photos: Yes / (No) **Flow:** No Flow / Intestital / (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 (PPTh)	Sp COND (µmhos/cm)	Temp. (C°)
EST	13:15	0.4	0.2	0.4 "5"	8.75	92.9	5.67	0.02	52.6	18.6
(CEN)										

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	[x] W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	[x] Ice [x] H_2SO_4	SA9129100	5/20	[x] <2
Metals	[x] W-ICPMS [x] W-ICP	[x] Ice [x] HNO_3	NA912807	5/20	[x] <2
Filtered Nutrients	[x] W-PO4-F [x] Field Filtered 0.45 µm Filter	[x] Ice	16918633		
Chlorophyll	[x] CHLSUITE-W	[x] Ice			
Physical/Aggregate (Fresh)	[x] Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS	[x] Ice			
Physical/Aggregate (Marine)	[ ] Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY	[ ] Ice			
Macroinvertebrates	[ ] MI-FW-QLDC	[ ] Formalin			
Periphyton	[ ] ALGAE-ID	[ ] Ice			
Microbiology	[x] E Coli [ ] F Coli [ ] Enterococci	[x] Ice			
Molecular	[x] PCR-FILTER [x] PCR-BacR [x] PCR-GULL2 [x] PCR-HF183 [x] PCR-DG3 [x] PCR-GFD	[x] Ice			
Tracers	[x] W-E8321-DI [x] W-E8321-MS	[x] Ice			
Pesticides	[x] W-PSNP-TQ [x] W-CT-CL-R [x] W-E8321-DI [x] W-PCL-SQ-R [x] WE8321-MS [x] W-CARB-AA	[x] Ice			
Phytoplankton	[ ] DTY-QN-C [ ] PKD-QN-C				

Place Preservative Sticker(s) Here (If Available)

Notes:

Field/WIN ID → G4NW0436

Location: Big Coldwater Creek West Fork upstream of Walling Rd

Signature: [signature] **Date:** 11/7/19

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)

QA/QC Sample Information

Duplicate

Time Zone: EST (CEN) **Time:** 1320 **Field ID:** G4NW0436 (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_2SO_4	SA9129100	05/20	☒ < 2
Metals	☒ W-ICPMS ☒ W-ICP	☒ Ice ☒ HNO_3	NA9129070	5/20	☒ < 2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice	16918633		
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 Coli ☐ F Coli ☐ Enterococci	☒ Ice			
Molecular	☒ PCR-FILTER ☒ PCR-BacR ☒ PCR-GULL2 ☒ PCR-HF183 ☒ PCR-DG3 ☒ PCR-GFD	☒ Ice			
Tracers	~~☒ W-E3821-MS ☒ W-E3821-DI~~ NS	☐ Ice			
Pesticides	☒ W-PSNP-TQ ☒ W-E3821-DI ☒ W-CT-CL-R ☒ W-PCL-SQ-R ☒ W-E-3821-MS ☒ W-CARB-AA	☒ Ice			

Place Preservative Sticker(s) Here (If Available)

Blank

Time Zone: EST (CEN) **Time:** 1325 **Field ID:** G4NW0436 (Blank Type_DDMMYYYY)

DI Source: ICE ROOM **Location:** NW ROC

☐ Field Blank ☒ Equipment Blank ☐ Field Cleaned Equipment Blank **Equipment ID:** NW ROC IV

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_2SO_4	SA9129100	05/20	☒ < 2
Metals	☒ W-ICPMS ☒ W-ICP	☒ Ice ☒ HNO_3	NA9129070	05/20	☒ < 2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice	16918633		
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			

No

Field ID → G4NW0436_DUP

Location: Big Coldwater Creek West Fork upstream of Walling Road

WIN ID → G4NW0436

Field ID: FB_07112019

Location: Big Coldwater Creek West Fork upstream of Walling Road

Signature: Heather [illegible] Date: 11/07/2019

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)

Request Number: RQ-2019-11-04-55

NW RUN

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: NW-DIST

Project ID: SMP

Requester: Michael King

Collected By: H. Schmulz

Field Report Prepared By: H. Schmulz

Sampling Agency: FLPNS

Location	Comp / Grab	Collection (comp begin or grab) Date / Time (Eastern / Central)	Composite end Date / Time	Bottle Group(s) (See pg 2)
Field/WIN ID G4NW0420 Location: Little Pine Barren Creek above CR99	Grab	11/07/2019 0900 Central		A
Field/WIN ID G4NW0421 Location: Big Escambia Creek downstream of Fannie Rd	Grab	11/07/2019 0945 Central		A
Field/WIN ID G4NW0163 Location: Wiggins Branch below Highway 29	Grab	11/07/2019 1220 Central		A
Field/WIN ID → G4NW0436 Location: Big Coldwater Creek West Fork upstream of Walling Rd	Grab	11/07/2019 1315 Central		B

Field/WIN ID	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen (mg/L / % sat)	Total Res. Chlorine (mg/L)	Temp (C)	pH	Sample Depth (ft / m)	Sp. Conductance (umho/cm)	Salinity (ppt)	Comments
G4NW0420	Fresh	7.30 mg/L		17.4	4.99	0.1 m	47.6	0.02	
G4NW0421	Fresh	9.31 mg/L		17.3	5.27	0.1 m	35.6	0.02	
G4NW0163	Fresh	5.60 mg/L		18.4	5.48	0.05 m	44.0	0.02	
G4NW0436	Fresh	8.75 mg/L		18.6	5.67	0.2 m	52.6	0.02	

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
H. Schmulz	11/07/19; 1600	FedEx	3		

Group:	Bottle Type:	# of Bottles:	Preservative:	Enter Number of Bottles Sent to Lab
A	P-1L	3	ICE	
	ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS			
A	BP-1L	3	ICE	
	CHLSUITE-W			
A	TEST HAS NO BOTTLE	3	ICE	
	NW-UWF-ECQ			
A	P-500ML	3	ICE And H2SO4	
	W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC			
A	P-125ML	3	FILTER-ICE	
	W-PO4-F			
B	P-1L	1	ICE	
	ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS			
B	BP-1L	1	ICE	
	CHLSUITE-W			
B	TEST HAS NO BOTTLE	1	ICE	

Request Number: RQ-2019-11-04-55

NW RUN

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: NW-DIST

Project ID: SMP

Requester: Michael King

Collected By: H Schmuki

Field Report Prepared By: H Schmuki

Sampling Agency: FL DNS

Field ID → G4NW0436_DUP

Location: Big Coldwater Creek West Fork upstream of Walling Road

WIN ID → G4NW0436

Location	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 11/07/2019 Time 1320 Eastern Central	Composite end Date Time	Bottle Group(s) (See pg 2)
Field ID	Matrix (type, e.g., Salt, Fresh, etc): Fresh	Diss. Oxygen 8.75 ☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	C
Latitude ☐ dd ☐ dms	Temp (C) 18.6	pH 5.67	Sample Depth 0.2 ☐ ft ☒ m	Sp. Conductance (umho/cm) 526
Longitude ☐ dd ☐ dms	Salinity (ppt) 0.02	Comments		

Field ID: FB_07112019

Location: Big Coldwater Creek West Fork upstream of Walling Road

Location	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 11/07/2019 Time 1325 Eastern Central	Composite end Date Time	Bottle Group(s)
Field ID	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	D
Latitude ☐ dd ☐ dms	Temp (C)	pH	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)
Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments		

Location	☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time Eastern Central	Composite end Date Time	Bottle Group(s)
Field ID	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
WIN/STORET #	Temp (C)	pH	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)
Latitude ☐ dd ☐ dms	Salinity (ppt)	Comments		
Longitude ☐ dd ☐ dms				

Location	☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time Eastern Central	Composite end Date Time	Bottle Group(s)
Field ID	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	
WIN/STORET #	Temp (C)	pH	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)
Latitude ☐ dd ☐ dms	Salinity (ppt)	Comments		
Longitude ☐ dd ☐ dms				

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
H. Schmuki	11/07/19 16:00	FedEx	3		

Group:	Bottle Type:	# of Bottles:	Preservative:	Enter Number of Bottles Sent to Lab
A	P-1L	3	ICE	3
	ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS			
A	BP-1L	3	ICE	3
	CHLSUITE-W			
A	TEST HAS NO BOTTLE	3	ICE	0
	NW-UWF-ECQ			* Sent to UWF contract Lab
A	P-500ML	3	ICE And H2SO4	3
	W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC			SA 291000 05/09/20
A	P-125ML	3	FILTER-ICE	3
	W-PO4-F			
B	P-1L	1	ICE	1
	ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS			
B	BP-1L	1	ICE	1
	CHLSUITE-W			
B	TEST HAS NO BOTTLE	1	ICE	1

Group	Bottle Type	# of Bottles	Preservative	Enter Number of Bottles Sent to Lab
B	TEST HAS NO BOTTLE NW-UWF-ECQ	1	ICE	D * Sent to UWF Contract Lab
B	BG-500ML W-CARB-AA	1	CH2ClCOOH Pre-Preserved	1
B	BG-500ML W-CT-Cl-R W-PCL-SQ-R	4	ICE	4
B	BG-500ML W-E8321-DI W-E8321-MS	1	ICE	1
B	P-500ML W-ICP W-ICPMS	1	HNO3	1 NA 9129070 05/09/20
B	P-500ML W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC	1	ICE And H2SO4	1 SA9129100 05/09/20
B	P-125ML W-PO4-F	1	FILTER-ICE	1
B	BG-1L W-PSNP-TQ	4	ICE	4
C	P-1L ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS	1	ICE	1

Group	Bottle Type	# of Bottles	Preservative	Enter Number of Bottles Sent to Lab
C	BP-1L CHLSUITE-W	1	ICE	1
C	TEST HAS NO BOTTLE NW-UWF-ECQ	1	ICE	0 * Sent to UWF Contract Lab
C	P-500ML W-ICP W-ICPMS	1	HNO3	1 NA9129070 05/09/20
C	P-500ML W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC	1	ICE And H2SO4	1 SA9129100 05/09/20
C	P-125ML W-PO4-F	1	FILTER-ICE	1
C	BG-1L W-PSNP-TQ	2	ICE	2
D	P-1L ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS	1	ICE	1
D	P-500ML W-ICP W-ICPMS	1	HNO3	1 NA9129070 05/09/20
D	P-500ML W-NH3 W-NO2NO3 W-S-A-TP	1	ICE And H2SO4	1 SA9129100 05/09/20

Group:	Bottle Type:	# of Bottles:	Preservative:	Enter Number of Bottles Sent to Lab
D	P-500ML	1	ICE And H2SO4	1
W-TKN W-TOC				
D	P-125ML	1	FILTER-ICE	1
W-PO4-F				
D	BG-1L	2	ICE	2
W-PSNP-TQ				

Ref:
Dep:
Date: 21Oct19
Wgt: 10.00 LBS
DV: 0.00
SHIPPING: 0.00
SPECIAL: 0.00
HANDLING: 0.00
TOTAL: 0.00
Svcs: PRIORITY OVERNIGHT Master 1278 4008 6342
TRCK: 1278 4008 6342

Ref:
Dep:
Date: 21Oct19
Wgt: 10.00 LBS
DV: 0.00
SHIPPING: 0.00
SPECIAL: 0.00
HANDLING: 0.00
TOTAL: 0.00
Svcs: PRIORITY OVERNIGHT Master 1278 4008 6342
TRCK: 1278 4008 6353

Ref:
Dep:
Date: 21Oct19
Wgt: 10.00 LBS
DV: 0.00
SHIPPING: 0.00
SPECIAL: 0.00
HANDLING: 0.00
TOTAL: 0.00
Svcs: PRIORITY OVERNIGHT Master 1278 4008 6342
TRCK: 1278 4008 6364

SAMPLE TRANSMITTAL FORM
Document Reference # 05.1.0

Project: FDEP

Laboratory: Wetlands Research Laboratory

Sampler's intials : HS

Method of transport: Drop off on ice by automobile

Page _1_ of _1_

Samples delivered by: H Schmuck of FDEP

Date/Time: 11/07/19 / 1500

Sample received by: [illegible] of WRL

Date/Time: 11/07/19 / 1500

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.
If a field log or other chain of custody is 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
19-45879	G4NW0421 Big Escambia Creek	SW	G	Sterile plastic	Escherichia coli 18-QT	ice/Na2S2O3	3.6	11/7/19 ~~0900~~ 0945 HS 11/7/19
19-45880	G4NW0420 Little Pine Barren Creek	SW	G	Sterile plastic	Escherichia coli 18-QT	ice/Na2S2O3	5.1	11/7/19 0900
19-45881	G4NW0163 Wiggins Branch	SW	G	Sterile plastic	Escherichia coli 18-QT	ice/Na2S2O3	3.9	11/7/19 1220
HS 11/7/19	~~G4NW0420 DUP Little Pine Barren Creek~~	~~SW~~	~~G~~	~~Sterile plastic~~	~~Escherichia coli 18-QT~~	~~ice/Na2S2O3~~		~~11/7/19~~
19-45882	G4NW0436 Big Coldwater West	SW	G	Sterile plastic	Escherichia coli 18-QT	ice/Na2S2O3	3.8	11/7/19 1315
19-45883	G4NW0436 Big Coldwater West Dup	SW	G	sterile plastic	Escherichia coli 18-QT	ice/Na2S2O3	4.0	11/7/19 1320

Comments sample container lot# # L19192

RQ-2019-11-04-55

Contact organization FDEP

Contact name Michael King

Phone: (850) 595-8300

Address 160 W Governmental Street, suite 208, Pensacola, FL 32502

Sampler's name: Heather Schmuck

[1]Matrix: SW = surface water, PW = pore water, GW = ground water, S = soil/sediment, X = _____

[2]Type codes: G = grab, C = composite, X = _____

[3] Recorded using IRT-2