

RQ-2019-08-12-28

Field Personnel processing steps

- ☒ New Field IDs created (when using a new station) Date: 8/15/19 initials: SS ☐ NA
- ☒ Create entry in SMPStationCreationFile if new station is used

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

- ☒ Date sampled Date: 8/19/19 initials: SS
- ☐ Update MAT Date: _____ initials: _____
- ☒ Update "SMP Tracker" Date: 8/20/19 initials: SS
- ☐ Photos put into archive Date: 8/20/19 initials: SS ☐ NA
- ☒ RQ Sheet – from LIMS (display/print request)
- ☒ Calibration Log for YSI used
- ☒ Field Sheets initialed/dated @ "Scan/Save Field Sheets" then scanned and saved into:
- Scans_ToBeProcessed Date: 8/20/19 initials: SS
- ☒ 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:

Date of Request: 22-JUL-2019
 Created By: KING_M On: 22-JUL-2019
 Modified By: JASROTIA_P On: 24-JUL-2019
 Customer: NW-DIST
 Project: SMP
 Division:
 District: Northwest District
 Sampling Event: SHOAL RIVER

Send Coolers To:

Phone: 850-595-0605
 160 Government Center
 Suite 208
 Pensacola, FL 32502-5794
 Attn: Michael King

Program Module Number:

Priority: 3
 Event Status: R
 Criminal Investigation: NO
 Chemistry Request Reviewed By: WATTS_J On: 24-JUL-2019
 Biology Request Reviewed By: JASROTIA_P On: 24-JUL-2019
 Sampling Kit Required: YES Ship on: 02-AUG-2019
 Sampling Kit Shipped: YES On: 29-JUL-2019
 Sampling Kit Packed By: SHAIK_A
 Preservatives Needed: NO
 Date to Receive Samples: 12-AUG-2019
 Received By: KLUG_K On: 20-AUG-2019

Send Final Report To:

160 Government Center
 Suite 208
 Pensacola, FL 32502-5794
 Attn: Cheryl Bunch

Report Type: Final Only
 FTP Data: NO
 QC Report: YES
 Date Log: NO
 Authorization Log: NO

Comments: Group A: Freshwater
 (WBID 160B) Nutrients, Metals, Contract Lab Bacteria
 Group B: Freshwater
 (WBID 160A, 30) Nutrients, Metals
 Group C: Freshwater
 (WBID 30B) 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-97) Alkalinity in aqueous matrices as mg CaCO ₃ /L
Total Alkalinity		
TURBIDITY	Template: DEFAULT	(EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices
Turbidity		
W-CL-IC	Template: DEFAULT	(EPA 300.0 Rev. 2.1) Chloride in aqueous matrices
Chloride		
W-COLOR	Template: DEFAULT	(SM 2120 B) True Color measured at 450 nm
Color (true)		
W-F	Template: DEFAULT	(SM 4500 F-C-97) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
Fluoride		
W-SO4-IC	Template: DEFAULT	(EPA 300.0 Rev. 2.1) Sulfate in aqueous matrices
Sulfate		
W-TDS	Template: DEFAULT	(SM 2540 C-97) Total Dissolved Solids in aqueous matrices
TDS		
W-TSS	Template: DEFAULT	(SM 2540 D-97) Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample
TSS		
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
Chlorophyll-a, Corrected		

Bottle Group A (Water) With 1 Samples:

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
Chlorophyll-a, Uncorrected		
Phaeophytin-a		
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
Escherichia Coli-Quanti-Tray		
Bottle Type: P-500ML	Number of Bottles: 1	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: 1	Preserved With: ICE And H2SO4
W-NH3	Template: DEFAULT	(EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L
Ammonia-N		
W-NO2NO3	Template: DEFAULT	(EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L
NO2NO3-N		
W-S-A-TP	Template: DEFAULT	(EPA 365.1 Rev. 2.0) Total Phosphorus in aqueous matrices as mg P/L
Total-P		
W-TKN	Template: DEFAULT	(EPA 351.2 Rev. 2.0) Total Kjeldahl Nitrogen in aqueous matrices
Kjeldahl Nitrogen		
W-TOC	Template: DEFAULT	(SM 5310 B-00) Nonpurgeable Organic Carbon in aqueous matrices
Organic Carbon		
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
O-Phosphate-P		

Bottle Group B (Water) With 5 Samples:

Bottle Type: P-500ML	Number of Bottles: 5	Preserved With: ICE And H2SO4
W-NH3	Template: DEFAULT	(EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L
Ammonia-N		
W-NO2NO3	Template: DEFAULT	(EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L
NO2NO3-N		
W-S-A-TP	Template: DEFAULT	(EPA 365.1 Rev. 2.0) Total Phosphorus in aqueous matrices as mg P/L
Total-P		
W-TKN	Template: DEFAULT	(EPA 351.2 Rev. 2.0) Total Kjeldahl Nitrogen in aqueous matrices
Kjeldahl Nitrogen		
W-TOC	Template: DEFAULT	(SM 5310 B-00) Nonpurgeable Organic Carbon in aqueous matrices
Organic Carbon		
Bottle Type: P-125ML	Number of Bottles: 5	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
O-Phosphate-P		

Bottle Group B (Water) With 5 Samples:

Bottle Type: P-1L	Number of Bottles: 5	Preserved With: ICE
ALKALINITY	Template: DEFAULT	(SM 2320 B-97) Alkalinity in aqueous matrices as mg CaCO ₃ /L
Total Alkalinity		
TURBIDITY	Template: DEFAULT	(EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices
Turbidity		
W-CL-IC	Template: DEFAULT	(EPA 300.0 Rev. 2.1) Chloride in aqueous matrices
Chloride		
W-COLOR	Template: DEFAULT	(SM 2120 B) True Color measured at 450 nm
Color (true)		
W-F	Template: DEFAULT	(SM 4500 F-C-97) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
Fluoride		
W-SO4-IC	Template: DEFAULT	(EPA 300.0 Rev. 2.1) Sulfate in aqueous matrices
Sulfate		
W-TDS	Template: DEFAULT	(SM 2540 C-97) Total Dissolved Solids in aqueous matrices
TDS		
W-TSS	Template: DEFAULT	(SM 2540 D-97) Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample
TSS		

Bottle Type: BP-1L	Number of Bottles: 5	Preserved With: ICE
CHLSUITE-W	Template: DEFAULT	(SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry
Chlorophyll-a, Corrected		
Chlorophyll-a, Uncorrected		
Phaeophytin-a		

Bottle Type: P-500ML	Number of Bottles: 5	Preserved With: HNO ₃
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 Group C (Water) With 1 Samples:

Bottle Type: P-1L	Number of Bottles: 1	Preserved With: ICE
ALKALINITY	Template: DEFAULT	(SM 2320 B-97) Alkalinity in aqueous matrices as mg CaCO ₃ /L
Total Alkalinity		
TURBIDITY	Template: DEFAULT	(EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices
Turbidity		
W-CL-IC	Template: DEFAULT	(EPA 300.0 Rev. 2.1) Chloride in aqueous matrices
Chloride		
W-COLOR	Template: DEFAULT	(SM 2120 B) True Color measured at 450 nm
Color (true)		
W-F	Template: DEFAULT	(SM 4500 F-C-97) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)

Bottle Group C (Water) With 1 Samples:

Bottle Type: P-1L	Number of Bottles: 1	Preserved With: ICE
W-F	Template: DEFAULT	(SM 4500 F-C-97) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
Fluoride		
W-SO4-IC	Template: DEFAULT	(EPA 300.0 Rev. 2.1) Sulfate in aqueous matrices
Sulfate		
W-TDS	Template: DEFAULT	(SM 2540 C-97) Total Dissolved Solids in aqueous matrices
TDS		
W-TSS	Template: DEFAULT	(SM 2540 D-97) Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample
TSS		
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
Chlorophyll-a, Corrected		
Chlorophyll-a, Uncorrected		
Phaeophytin-a		
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
Escherichia Coli-Quanti-Tray		
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
Ammonia-N		
W-NO2NO3	Template: DEFAULT	(EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L
NO2NO3-N		
W-S-A-TP	Template: DEFAULT	(EPA 365.1 Rev. 2.0) Total Phosphorus in aqueous matrices as mg P/L
Total-P		
W-TKN	Template: DEFAULT	(EPA 351.2 Rev. 2.0) Total Kjeldahl Nitrogen in aqueous matrices
Kjeldahl Nitrogen		
W-TOC	Template: DEFAULT	(SM 5310 B-00) Nonpurgeable Organic Carbon in aqueous matrices
Organic Carbon		
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
O-Phosphate-P		

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



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

WIN Station Name: Yellow River below Nichols Creek Confluence

Date: 8/19/19
(mm/dd/yyyy)

WIN/ Field ID: G4NW0270

WBID: 30B

Latitude: 30.592025

County: Santa Rosa

ORG ID: 21FLPNS

Longitude: 86.8913106
(Decimal Degrees)

Receiving Body of Water: Blackwater Bay

RQ-2019-08-12-28
(Decimal Degrees)

Sampling Team Members						WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment				
S. Glader M. Clark						X	X	X	X	X	☒ Sample Container	☐ Van Dorn	☐ Pole		
											☐ Carboy	☒ Syringe	☐ Dipper	☐ Other	
Depth Measured with						ProD55						Equipment ID			
											Collection Method				
						X	X	X	X	X	☐ Wading	☐ Canoe/Kayak	☐ Electric Motor		
											☐ From Shore	☐ Gasoline Motor	☐ Other		
Water Level: Dry/ Pooled/ <u>Low</u> / Normal / High / Flooded						Meter ID# 155077					Matrix: <u>Fresh</u> / Marine / DI				
Photos: Yes <u>No</u> Flow: No Flow / Intestinal / <u>Flowing</u> / NA						Tide: Rising/ Falling/ Slack <u>NA</u>					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	08:50	0.8	0.3	0.8	6.74	85.8	6.30	0.02	41.0	28.0					
CEN				"5"											
Biological Samples Collected: <u>None</u> 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		9010030		4/10/20		☒ <2		
Metals		☐ W-ICPMS ☐ W-ICP					☐ Ice ☐ HNO3						☐ <2		
Filtered Nutrients		☒ W-P04-F ☒ Field Filtered 0.45 um Filter					☒ Ice		16918633						
Chlorophyll		☒ CHLSUITE-W					☒ Ice								
Physical/Aggregate (Fresh)		☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CH-IC / W-COLOR / W-S04-IC / W-TDS					☒ Ice								
Physical/Aggregate (Marine)		☐ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY					☐ Ice								
Macroinvertebrates		☐ MI-FW-QLDC					☐ Formalin								
Periphyton		☐ ALGAE-ID					☐ Ice								
Microbiology		☒ E Coli ☐ F Coli ☐ Enterococci					☒ 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								

No	Ref:	Date: 29Jul19	SHIPPING: 0.00
	Dep:	Wgt: 35.00 LBS	SPECIAL: 0.00
		DV: 0.00	HANDLING: 0.00
			TOTAL: 0.00
Svcs: PRIORITY OVERNIGHT Master 4751 8782 3371 TRCK: 4751 8782 3371			

Field/WIN ID



G4NW0270

Location

Yellow River below Nichols Creek Confluence

Signature: Myranda Clark

8/19/19

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

8/20/19

(Initials/Date)

Migrate Data to WIN:

(Initials/Date)

(Initials/Date)

Verify Data in WIN:

(Initials/Date)

(Initials/Date)



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

WIN Station Name: Yellow River below Trammel Creek

Date: 8/19/19
(mm/dd/yyyy)

WIN/ Field ID: G4NW0311

WBID: 30

Latitude: 30.74166668

County: Okaloosa

ORG ID: 21FLPNS

Longitude: 86.62833333

Receiving Body of Water: Blackwater Bay

RQ-2019- 08-12-28

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment		
						Sample Container	Van Dorn	Pole
S. Slade M. Clark	X	X	X	X	X	☐ Carboy	☒ Syringe	☐ Pole
						☐ Dipper	☐ Other	
Depth Measured with: P.S.D.S.								
Equipment ID:								
Collection Method								
☐ Wading ☐ Canoe/Kayak								
☐ From Shore ☐ Electric Motor								
☐ Other ☒ Gasoline Motor								

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

Meter ID# 166077

Matrix: Fresh Marine / DIPhotos: 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	09:50	0.5	0.3	0.5	7.04	90.0	6.93	0.03	71.8	28.2
CEN				1511						

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	9010030	4/10/20	☒ <2
Metals	☒ W-ICPMS ☒ W-ICP	☒ Ice ☒ HNO3	9099030	4/9/20	☒ <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			
Macroinvertebrates	☐ ML-FW-QLDC	☐ Formalin			
Periphyton	☐ ALGAE-ID	☐ Ice			
Microbiology	☐ E Coli ☐ F Coli ☐ Enterococci	☐ 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			

Notes	Ref: Date: 29Jul19 Dep: Wgt: 35.00 LBS DV: 0.00	SHIPPING: 0.00 SPECIAL: 0.00 HANDLING: 0.00 TOTAL: 0.00	Field/WIN ID G4NW0311
Rune: PRIORITY OVERNIGHT Master 4751 8782 3371 TRCK: 4751 8782 3382			Location Yellow River below Trammel Creek

Signature: [Signature] 8/19/19

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: 8/20/19 (Initials/Date) Migrate Data to WIN: (Initials/Date) Verify Data In WIN: (Initials/Date)

(Initials/Date)



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

WIN Station Name: Shoal River below Juniper Creek

Date: 8/19/19
(mm/dd/yyyy)

WIN Field ID: G4NW0024

WBID: 160A

Latitude: 30.69521668

County: Okaloosa

ORG ID: 21FLPNS

Longitude: -86.58488974

Receiving Body of Water: Yellow River

RQ-2019-06-12-24

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
S. Slade		X	X	X	X	X
M. Clark		X	X	X	X	X

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

Water Level: Dry / Pooled / Low / Normal / High / Flooded
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	10:45	1.4	0.3	1.4	7.34	91.6	6.27	0.01	26.3	26.9
CEN				5" VOB						

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	9010030	4/10/20	☒ <2
Metals	☒ W-ICPMS ☒ W-ICP	☒ Ice ☒ HNO3	9099030	4/9/20	☒ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice	16918633		
Chlorophyll	☒ CHL-SUITE-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	☐ MI-FW-QLOC	☐ Formalin			
Periphyton	☐ ALGAE-ID	☐ Ice			
Microbiology	☐ E Coli ☐ F Coli ☐ Enterococci	☐ 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			

Notes:

Field/WIN ID: G4NW0024

Location: Shoal River below Juniper Creek

Signature:

Date: 8/19/19

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 8/20/19 (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: Shoal River upstream Bill Dugger Park SR-85

Date: 8/19/19
(mm/dd/yyyy)

WIN/ Field ID: G4NW0023

WBID: 160A

Latitude: 30.696184001

County: Okaloosa

ORG ID: 21FLPNS

Longitude: 86.571097

Receiving Body of Water: Yellow River

RQ-2019-08-12-28

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
S. Slade						X		X	X
M. Clark					X		X		

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

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

Meter ID# 155070

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	11:07	0.7	0.3	0.7	7.42	92.9	6.29	0.01	27.2	27.0
<u>CEN</u>				"5"						

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	9010030	4/10/20	☒ <2
Metals	☒ W-ICPMS ☒ W-ICP	☒ Ice ☒ HNO3	9099030	4/9/20	☒ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 um Filter	☒ Ice	1698633		
Chlorophyll	☒ CHLSUITE-W	☒ Ice			
Physical/Aggregate (Fresh)	☒ Alkalinity / ☒ W-F / ☒ W-TSS / ☒ TURBIDITY / ☒ W-CH-IC / ☒ W-COLOR / ☒ W-SO4-IC / ☒ W-TDS	☒ Ice			
Physical/Aggregate (Marine)	☐ Alkalinity / ☐ W-BR-IC / ☐ W-F / ☐ W-TSS / ☐ TURBIDITY	☐ Ice			
Macroinvertebrates	☐ MI-FW-QLOC	☐ Formalin			
Periphyton	☐ ALGAE-ID	☐ Ice			
Microbiology	☐ EColi ☐ F Coli ☐ Enterococci	☐ 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 ☐ W-E8321-MS ☐ W-CARB-AA	☐ Ice			
Phytoplankton	☐ DTY-QN-C ☐ PKD-QN-C	☐ Ice			

Notes:

Field/WIN ID: G4NW0023

Location: Shoal River upstream Bill Dugger Park SR-85

Signature: [Signature]

1 8/19/19

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 22 8/20/19 (Initials/Date) Migrate Data to WIN: 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: Shoal River below Titi Creek

Date: 8/19/19
(mm/dd/yyyy)

WIN/ Field ID: G4NW0410

WBID: 160B

Latitude: 30.701036

County: Okaloosa

ORG ID: 21FLPNS

Longitude: -86.535990
(Decimal Degrees)

Receiving Body of Water: Yellow River

RQ-2019-09-12-28
(Decimal Degrees)

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
S. Slade					X	X	X	X	X
M. Clark					X	X	X	X	X

Sampling Equipment		
☒ Sample Container	☐ Van Dorn	☐ Pole
☐ Carboy	☒ Syringe	
☐ Dipper	☐ Other	
Depth Measured with Props		
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	11:55	1.0	0.3	1.0	7.61	94.9	6.28	0.01	26.3	26.8
CEN				"S"						

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	9010030	4/10/20	☒ <2
Metals	☒ W-ICPMS ☒ W-ICP	☒ Ice ☒ HNO3	9099030	4/9/20	☒ <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-CI-IC / W-COLOR / W-SO4-IC / W-TDS	☒ Ice			
Physical/Aggregate (Marine)	☐ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates	☐ MI-FW-QLDC	☐ Formalin			
Periphyton	☐ ALGAE-ID	☐ Ice			
Microbiology	☒ E Coli ☐ F Coli ☐ Enterococci	☒ 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			

Notes:

Field/WIN ID



G4NW0410

Location

Shoal River below Titi Creek

Signature: *[Handwritten Signature]*

8/19/19

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: *[Handwritten]* Migrate Data to WIN: *[Handwritten]* Verify Data in WIN: *[Handwritten]*



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

WIN Station Name: Yellow River downstream of Gin Hole Landing

Date: 8/19/19
(mm/dd/yyyy)

WIN/ Field ID: G4NW0494

WBID: 30

Latitude: 30.67852

County: Okaloosa

ORG ID: 21FLPNS

Longitude: 86.66070

Receiving Body of Water: Blackwater Bay

RQ-2019-05-12-28

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment		
						☒ Sample Container	☐ Van Dorn	☐ Pole
S. Slade M. Clark	☒	☒	☒	☒	☒	☐ Carboy	☒ Syringe	
						☐ Dipper	☐ Other	
Depth Measured with <u>ProDSS</u>								
Equipment ID								
Collection Method								
☐ Wading ☐ Canoe/Kayak								
☐ From Shore ☐ Electric Motor								
☐ Other ☒ Gasoline Motor								

Water Level: Dry/ Pooled/ Low/ Normal / High / Flooded
Photos: Yes / No Flow: No Flow / Intestinal / Flowing / NA
Meter ID# 156070 Matrix: Fresh / Marine / DI
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	13:35	1.8	0.3	1.0	7.25	92.6	6.8	0.02	45.2	28.2
SEN	13:40		1.3		7.24	92.4	6.8	0.02	45.2	28.1

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

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	9010030	4/10/20	☒ <2
Metals	☒ W-ICPMS ☒ W-ICP	☒ Ice ☒ HNO3	9099030	4/10/20	☒ <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			
Macroinvertebrates	☐ MI-FW-QLDC	☐ Formalin			
Periphyton	☐ ALGAE-ID	☐ Ice			
Microbiology	☐ E Coli ☐ F Coli ☐ Enterococci	☐ Ice			
Molecular	☐ PCR-FILTER ☐ PCR-BacR ☐ PCR-GUL12 ☐ 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 ☐ W-E8321-MS ☐ W-CARB-AA	☐ Ice			
Phytoplankton	☐ DTY-QN-C ☐ PKD-QN-C				

Notes:	Field/WIN ID: <u>G4NW0494</u>
	Location: Yellow River downstream of Gin Hole Landing
Signature: <u>[Signature]</u>	Date: <u>8/19/19</u>

LIMS EVENT ID:	WIN Import ID:
Enter Field Parameters, Verify Station ID in LIMS DMT: <u>8/20/19</u>	QC Station ID, Field Parameters in LIMS DMT: <u>8/20/19</u>
Scan/Save Field Sheets <u>8/20/19</u>	Migrate Data to WIN: <u>8/20/19</u>
	Verify Data in WIN: <u>8/20/19</u>



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

WIN Station Name:

Shoal River near Rattlesnake Bluff

Date:

8/19/19
(mm/dd/yyyy)

WIN/ Field ID: G4NW0493

WBID: 160A

Latitude: 30.68615

County: Okaloosa

ORG ID: 21FLPNS

Longitude: 86.64535
(Decimal Degrees)

Receiving Body of Water: Yellow River

RQ-2019-08-12-28
(Decimal Degrees)

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment		
							☒ Sample Container	☐ Van Dorn	☐ Pole
							☐ Carboy	☒ Syringe	
							☐ Dipper	☐ Other	
							Depth Measured with <u>ProDS</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 (umhos/cm)	Temp. (C°)
EST	13:55		0.3	0.9	7.27	92.2	6.30	0.01	26.7	27.7
CEN		0.9		5.1						

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	9010030	4/10/20	☒ <2
Metals	☒ W-ICPMS ☒ W-ICP	☒ Ice ☒ HNO3	9099030	4/10/20	☒ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 um Filter	☒ Ice	16918633		
Chlorophyll	☒ CHL-SUITE-W	☒ Ice			
Physical/Aggregate (Fresh)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CH-IC / W-COLOR / W-SO4-IC / W-TDS	☒ Ice			
Physical/Aggregate (Marine)	☐ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates	☐ MI-FW-QLDC	☐ Formalin			
Periphyton	☐ ALGAE-ID	☐ Ice			
Microbiology	☐ E Coli ☐ F Coli ☐ Enterococci	☐ 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	☐ DITY-QN-C ☐ PKD-QN-C				

Notes:

Field/WIN ID



G4NW0493

Location:

Shoal River near Rattlesnake Bluff

Signature:

[Handwritten Signature]

Date:

8/19/19

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

[Handwritten Signature] 8/20/19
(Initials/Date)

Migrate Data to WIN:

(Initials/Date)

Verify Data in WIN:

(Initials/Date)

(Initials/Date)

(Initials/Date)

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: 155072

RQ: 2019-08-12-28

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 6/13/19

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	<u>S. Hode</u>	<u>8/19/19</u>	<u>0705</u>	<u>27.0</u>	<u>761.7</u>	<u>8.0</u>	<u>7.93</u>	<u>99.6</u>			<u>P</u> / <u>F</u>	<u>L</u> / <u>F</u>
CCV	<u>S. Hode</u>	<u>8/19/19</u>	<u>0705</u>	<u>27.1</u>	<u>761.7</u>	<u>8.0</u>	<u>7.94</u>	<u>99.6</u>			<u>P</u> / <u>F</u>	<u>L</u> / <u>F</u>

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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	<u>S. Hode</u>	<u>8/19/19</u>	<u>0708</u>	<u>190116A</u>	<u>Jan '20</u>	<u>1000</u>	<u>1000</u>	<u>P</u> / <u>F</u>	<u>L</u> / <u>F</u>
ICV	<u>S. Hode</u>	<u>8/19/19</u>	<u>0710</u>	<u>190618A</u>	<u>Jan '20</u>	<u>100</u>	<u>103.7</u>	<u>P</u> / <u>F</u>	<u>L</u> / <u>F</u>
CCV	<u>S. Hode</u>	<u>8/19/19</u>	<u>1629</u>	<u>190116A</u>	<u>Jan '20</u>	<u>1000</u>	<u>992</u>	<u>P</u> / <u>F</u>	<u>L</u> / <u>F</u>
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.	<u>S. Hode</u>	<u>8/19/19</u>	<u>0712</u>	<u>2811803</u>	<u>Oct '20</u>	<u>7.</u>	<u>25.4</u>	<u>7.0</u>	<u>-50.5</u>	<u>P</u> / <u>F</u>	<u>L</u> / <u>F</u>
Calibr.	<u>S. Hode</u>	<u>8/19/19</u>	<u>0714</u>	<u>2902818</u>	<u>Jan '21</u>	<u>4.</u>	<u>27.7</u>	<u>4.01</u>	<u>135.6</u>	<u>P</u> / <u>F</u>	<u>L</u> / <u>F</u>
Calibr.	<u>S. Hode</u>	<u>8/19/19</u>	<u>0717</u>	<u>4904E09</u>	<u>Dec '20</u>	<u>10.</u>	<u>27.7</u>	<u>9.97</u>	<u>-216.0</u>	<u>P</u> / <u>F</u>	<u>L</u> / <u>F</u>
ICV	<u>S. Hode</u>	<u>8/19/19</u>	<u>0718</u>	<u>2902818</u>	<u>Jan '21</u>	<u>4.6</u>	<u>26.9</u>	<u>3.99</u>	<u>133.4</u>	<u>P</u> / <u>F</u>	<u>L</u> / <u>F</u>
CCV	<u>S. Hode</u>	<u>8/19/19</u>	<u>1632</u>	<u>4904E09</u>	<u>Dec '20</u>	<u>10</u>	<u>21.8</u>	<u>10.11</u>		<u>P</u> / <u>F</u>	<u>L</u> / <u>F</u>
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 10 165.8, slope from 4 to 7 186.1 (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: 6/13/19

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	<u>S. Hode</u>	<u>8/19/19</u>	<u>0718</u>	<u>0.00</u>	<u>0.00</u>	<u>P</u> / <u>F</u>	<u>L</u> / <u>F</u>

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

COMMENTS:

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:

RQ-

Project:

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:

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											P / F	L / F
CCV											P / F	L / F

DO Acceptance criteria from Table ± 0.3 mg/L.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

Optical: DO gain range 0.85 to 1.15 (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.								P / F	L / F
ICV								P / F	L / F
CCV								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.						7.				P / F	L / F
Calibr.						4.				P / F	L / F
Calibr.						10.				P / F	L / F
ICV										P / F	L / F
CCV										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:

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						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:

SHOAL RIVER

Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: NW-DIST

Requester: Michael King

Field Report Prepared By: J. Slade

Project ID: SMP

Collected By: L. M. Clark

Sampling Agency: FDEP NW RCR

Location	Field/WIN ID		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 8/19/19 Time 0850	Eastern Central	Composite end Date	Time	Bottle Group(s) (See pg 2)
Field ID	Location	G4NW0270	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	C
WIN/STC	Yellow River below Nichols Creek Confluence		Temp (C) 28.0	pH 6.30	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 41.0	
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt) 0.02	Comments			
Location	Field/WIN ID		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 8/19/19 Time 0950	Eastern Central	Composite end Date	Time	Bottle Group(s)
Field ID	Location	G4NW0311	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	B
WIN/ST	Yellow River below Trammel Creek		Temp (C) 28.2	pH 6.93	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 71.8	
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt) 0.03	Comments			
Location	Field/WIN ID		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 8/19/19 Time 1045	Eastern Central	Composite end Date	Time	Bottle Group(s)
Field ID	Location	G4NW0024	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	B
WIN/STOR	Shoal River below Juniper Creek		Temp (C) 26.9	pH 6.27	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 26.3	
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt) 0.01	Comments			
Location	Field/WIN ID		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 8/19/19 Time 1107	Eastern Central	Composite end Date	Time	Bottle Group(s)
Field ID	Location	G4NW0023	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	B
WIN/STOF	Shoal River upstream Bill Dugger Park SR-85		Temp (C) 27.0	pH 6.29	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 27.2	
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt) 0.01	Comments			

Relinquished By: J. Slade	Date/Time: 8/19/19 1630	Shipping Method: FedEx	Number of Coolers Shipped: 2	Received By:	Date/Time:
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Group: B	Bottle Type: CHLSUITE-W	BP-1L	# of Bottles: 5	Preservative: ICE	Enter Number of Bottles Sent to Lab <u>5</u>
Group: B	Bottle Type: W-ICP W-ICPMS	P-500ML	# of Bottles: 5	Preservative: HNO3	Enter Number of Bottles Sent to Lab <u>5</u> HNO3 LOT# NA9099030 EXP: 04/09/20
Group: B	Bottle Type: W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC	P-500ML	# of Bottles: 5	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab <u>5</u> H2SO4 LOT# SA9010030 EXP: 04/10/2020
Group: B	Bottle Type: W-PO4-F	P-125ML	# of Bottles: 5	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab <u>5</u>
Group: C	Bottle Type: ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS	P-1L	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab <u>1</u>
Group: C	Bottle Type: CHLSUITE-W	BP-1L	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab <u>1</u>
Group: C	Bottle Type: NW-UWF-ECQ	TEST HAS NO BOTTLE	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab <u>1</u> <i>Sent to Contract Lab UWR</i>
Group: C	Bottle Type: W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC	P-500ML	# of Bottles: 1	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab <u>1</u> H2SO4 LOT# SA9010030 EXP: 04/10/2020
Group: C	Bottle Type:	P-125ML	# of Bottles: 1	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab <u>1</u>

SHOAL RIVER

Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: NW-DIST

Requester: Michael King

Field Report Prepared By: J. Hodge

Project ID: SMP

Collected By: J. Hodge / Mr. Clark

Sampling Agency: FOEP NW Roc

Location	Field/WIN ID		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 8/19/19 Time 1155	Eastern Central	Composite end Date	Time	Bottle Group(s) (See pg 2)
Field ID	Location:	G4NW0410	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	4A
WIN/STO	Shoal River below Titi Creek		Temp (C) 26.8	pH 6.28	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 26.3	
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt) 0.01	Comments			
Location	Field/WIN ID		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 8/19/19 Time 1335	Eastern Central	Composite end Date	Time	Bottle Group(s)
Field ID	Location:	G4NW0494	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	B
WIN/ST	Yellow River downstream of Gin Hole Landing		Temp (C) 28.2	pH 6.80	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 45.2	
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt) 0.02	Comments			
Location	Field/WIN ID		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 8/19/19 Time 1355	Eastern Central	Composite end Date	Time	Bottle Group(s)
Field ID	Location:	G4NW0493	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)	B
WIN/STORE	Shoal River near Rattlesnake Bluff		Temp (C) 27.7	pH 6.30	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 26.7	
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt) 0.01	Comments			
Location	Field/WIN ID		☐ Comp ☒ Grab	Collection (comp begin or grab) Date	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	Longitude	☐ dd ☐ dms	Salinity (ppt)	Comments			

Relinquished By: J. Hodge	Date/Time: 8/19/19 1630	Shipping Method: Fedex	Number of Coolers Shipped: 2	Received By:	Date/Time:
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Document Reference # 05.1.0

FDEP

Sampler's initials :

Drop off.

FDEP

of

Date/Time:

Date/Time: 08/19/19 1:1520

Instructions: Fill in all fields except "Lab ID" on sample transport form completely. Each sample container must use a separate I

19-45519

sample container lot#GR013V

RQ-2019-08-12-28

FDEP

Michael King

Phone: (850) 595-8300

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

Sampler's name:

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

²Type codes: G = grab, C = composite, X =

³ Recorded using IRT-2