



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2020

Meter Passed End
of Day CCV
Yes / No

WIN Station Name: Alford Arm Tributary At Miccosukee Rd.

Date: 3/8/2021

WIN/Field ID: G1WA0066

WBID: 647M

ENR: -

Latitude: 30.4973

County: LEON

Org ID: 21FLWQA

Longitude: -84.171

Receiving Body of Water: Ochlockonee - St. Marks

RQ: 2021-03-08-06

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
☒ Curtis Musson		☒			
☒ Blake Spencer		☒	☒	☒	☒
☐					
☐					

Sampling Equipment	
☒ Sample Container	☐ Carboy
☐ Dipper	☐ Van Dorn
☒ Syringe	☐ Pole
Depth measured with: MeterStick	
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# EXO #1	
Photos: NO	Flow: FLOW	Tide:	Tide Times: High: Low:
Biological Samples Collected: ☐ None ☒ HA ☒ SCI ☒ RPS ☒ Algae ID ☒ LVS ☐ LVI Other:			
SBIO ID Numbers: SBIO: 81933 HA: 16812 RPS: 9700 Macrophyte: 11796 LIMS: 2229909			
Notes:			

Duplicate Sample

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

Blank

Time Zone:	Time:	Field ID:	(Blank Type_DDDMMYYY)
DI Source:	Location:		
DI Type:	Equipment ID:		
DI Container (Name/ID):		DI Container Type:	

LIMS EVENT ID: WAS-SECT-2021-03-09-02	WIN Import ID: 21FLWQA_WAS-SECT-2021-03-09-02_06-04-2021.TXT
Enter Field Parameters, Verify Station ID In LIMS DMT: SBS 4/21/21	QC Station ID, Field Parameters In LIMS DMT: ESB 5/21/2021
(Initials/Date)	(Initials/Date)
Scan/Save Field Sheets SBS 4/21/21	Migrate Data to WIN: DFT 6/4/21
(Initials/Date)	(Initials/Date)
Verify Data In WIN:	
(Initials/Date)	



RQ-2021-03-08-06

Customer: WQAP

Project ID: SMP

Collected By: Curtis Musson, Blake Spencer

Field Report Prepared By: Curtis Musson

Sampling Agency: FDEP

Place Label Here

WIN ID/Field ID:



G1WA0066

Location: Alford Arm Tributary At Miccosukee Rd.

Comments:

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 _h)
3/8/2021	1434 EST	11.6	115.4	15.14	5.88	0.15	0.3 ☒ VOB (S)	0.3	35.2	0.02
	EST						Central Lab please use top row for login purposes			

Parameter Suite	Parameter Methods	Preservation	pH Check	# Bottles sent to Lab	Bottle Group
Preserved Nutrients (P-500ML)	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☒ Ice ☒ H2SO4*	☒ <2	1	A
	Lot # Sa0353110 Exp: 1-11-22				
Metals (P-500ML)	☒ W-ICPMS ☒ W-ICP ☒ W-HARD	☒ Ice ☒ HNO3*	☒ <2	1	A
	Lot # Na0344060 Exp: 1-4-22				
Filtered Nutrients (P125ML)	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice		1	A
	Filter Lot # 16968882				
	Syringe Lot # 0079900				
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		2	B
Periphyton (PT-50ML)	☒ ALGAE-ID	☒ Ice		1	B
Microbiology (Contract Lab Bottle)	☒ E Coli ☐ F Coli ☐ Enterococci ☐ Contract Lab	☒ Ice		1	A
Molecular (QPCR-P-500ML)	☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-DG3 ☐ PCR-GULL2 ☐ PCR-GFD ☐	☐ Ice			
Tracers (BG-500ML)	☒ W-E8321-DI ☒ W-E8321-MS	☒ Ice		1	A
Pesticides (BG-500ML) (BG-1L)	☐ W-E8321-DI ☐ WE8321-MS ☒ W-PSNP-TQ ☐ W-CT-CL-R	☒ Ice		8	A
	☒ W-PCL-SQ-R ☐ W-CARB-AA (5 ml of MCAA** Buffer Solution) ☒ W-DIELDRIN				
Phytoplankton/Periphyton	DTM-QL-C ☐ PEN-QL-C ☐ DTY-QN-C ☐ PKD-QN-C	☐ Ice			
	DTM-QN-C ☐ PRN-QN-C ☐ PKD-QN-BV ☐				

Name:
Curtis Musson
Blake Spencer

Signature:

Blake Spencer

Date:

3/8/21

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution

DEP Form FD 9000-5 Stream/River Habitat Assessment Field Sheet

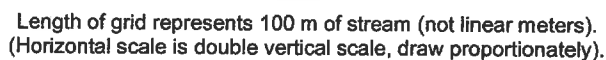
SBIO: 81933

SAMPLING AGENCY: <i>FAEP</i>		STORET STATION NUMBER: <i>G1WA0066</i>	DATE (MM/DD/YY): <i>3/8/21</i>	RECEIVING BODY OF WATER: <i>Ochlocknee - St Marks</i>
REMARKS: <i>HA: 16812</i>	COUNTY: <i>Leon</i>	LOCATION: <i>AK Ford Arm Tributary @ Micoosulee Rd</i>	FIELD ID/NAME: <i>G1WA0066</i>	

Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components Substrate Diversity <i>10</i>	Four or more major productive habitats present (snags, tree roots, aquatic vegetation, leaf packs (partially decayed), rock) 20 19 18 17 16	Three major productive habitats present. Adequate habitat. Some substrates may be new fall (fresh leaves or snags) 15 14 13 12 11	Two major productive habitats present. Less than desirable habitat, frequently disturbed or removed <i>10</i> 9 8 7 6	One or less major productive habitat. Lack of habitat is obvious, substrates unstable or smothered 5 4 3 2 1
Substrate Availability <i>13</i>	Greater than 30% major productive habitat present at site 20 19 18 17 16	16% to 30% major productive habitat, by aerial extent 15 14 <i>13</i> 12 11	6% to 15% major productive habitat 10 9 8 7 6	Less than 5% major productive habitat 5 4 3 2 1
Water Velocity <i>13</i>	Max. observed at typical transect: > 0.25 m/sec. But < 1 m/sec ≥0.33 0.31 0.29 0.27 >0.25 20 19 18 17 16	Max. observed at typical transect: >0.1 to 0.25 m/sec 0.25 0.21 0.17 0.13 >0.1 15 14 <i>13</i> 12 11	Max. observed at typical transect: 0.05 to 0.1 m/sec 0.1 0.09 0.07 0.06 0.05 10 9 8 7 6	Max. observed at typical transect: <0.05 m/sec; or spate occurring: > 1 m/sec <0.05 0.04 0.03 0.01 <0.01 5 4 3 2 1
Habitat Smothering <i>11</i> ----- Primary Score <i>47</i>	Adequate number of stable pools (1-2 per 12 times width) and <25% of habitats affected by sand, silt, or algae. 20 19 18 17 16	Adequate number of stable pools (1-2 per 12 times width) and >25% of habitats affected by sand, silt, or algae. 15 14 13 12 <i>11</i>	Does not have required number of stable pools (1-2 per 12 x width) and/or has shallow pools (<2 x prevailing depth). 10 9 8 7 6	Stable pools are absent. Most habitats affected by sand, silt, or algae accumulation. 5 4 3 2 1
Secondary Habitat Components Artificial Channelization <i>16</i>	Expected sinuosity given the stream width. No evidence of dredging or artificial straightening. No spoil banks. 20 19 18 17 <i>16</i>	Good sinuosity within old channelized area. Evidence of dredging or straightening in the past (>25 yrs) but mostly recovered. 15 14 13 12 11	Straightened with trapezoidal cross section, but has a small degree of sinuosity developed within channelized area. 10 9 8 7 6	Straightened or engineered by dredging, has trapezoidal or box cut cross section, lacks required pools. May have spoil banks. 5 4 3 2 1
Bank Stability Right Bank <i>10</i> Left Bank <i>10</i>	Bankfull > 60% of bank height. Slope of bank ≤ 60° from bankfull to top of bank. Bankfull is within or above the woody root zone with few raw, eroded areas. <i>10</i> 9	Only meets 2 of the 3 requirements for optimal bank stability. 8 7 6	Only meets 1 of the 3 requirements for optimal bank stability. 5 4	Bankfull < 60% of bank height. Slope of bank > 60°. Bankfull is below the woody root zone with raw, eroded areas. 3 2 1
Riparian Buffer Zone Width Right Bank <i>9</i> Left Bank <i>9</i>	Width of vegetation greater than 18 m 10 9	Width of vegetation >12 to 18m 8 7 6	Width of vegetation 6 to 12 m. human activities close to system 5 4	Less than 6 m of buffer zone due to intensive human activities 3 2 1
Riparian Zone Vegetation Quality Right Bank <i>9</i> Left Bank <i>9</i> ----- Secondary Score <i>72</i>	Over 80% of riparian surfaces consist of normal, expected plant community for given sunlight & habitat conditions (e.g., native plants; tree, shrub, and forbs represented, if appropriate). Minimal disturbance. 10 9	>50% to 80% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Some disruption in community observed. 8 7 6	25% to 50% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Disruption obvious. 5 4	Less than 25% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). 3 2 1

119
TOTAL SCORE

Date: <i>3/8/21</i>	Analyst: <i>Blake Spencer</i>	Signature: <i>Blake Spencer</i>
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$$\frac{\ln}{5.5 \text{ sec}}$$

DEP Form FD 9000-3 Physical/Chemical Characterization Field Sheet

Entered by: RAE 4/21/21

SAMPLE ID 81933 ORG ID 21ELWQA LATITUDE 30.4973
 COUNTY Leon STORET # GIWA0066 LONGITUDE -84.171
 DATE 3/8/21 TIME 1434 SAMPLING AGENCY FAEP
 SITE NAME AKard Arm Tributary @ Miccosukee Rd.
 FIELD ID/NAME GIWA0066 RECEIVING BODY OF WATER Ochlocknee - St. Marks

RIPARIAN ZONE / STREAM FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category):								Landscape Development Intensity Index (LDI)	
Forest/Natural	Silviculture	Field/Pasture	Agricultural	Residential	Commercial	Industry	Other (Specify)		
☐	☐	☐	☐	☐	☐	☐	☐		
Local Watershed Erosion (select one): ☐ None ☒ Slight ☐ Moderate ☐ Heavy								Typical Width (m) Depth (m)/Velocity (m/sec) Transect	
Local Watershed NPS Pollution: ☐ No evidence ☒ Slight ☐ Moderate ☐ Heavy								2.5 m wide	
Width of Riparian Vegetation (m) on Each Buffer Side				Hydrologic Modification Score (per FT 3101)					
Left Bank: <u>12-16m</u>		Right Bank: <u>12-16m</u>		<u>3-4</u>					
High Water Mark: <u>0.2</u> + <u>0.3</u> = <u>0.5</u>				Artificially Impounded					
(m) (above present water level) (present depth) (above bed)				☐ Yes ☒ No					
Artificially ☐ No ☒ Mostly recovered, more sinuous				Canopy Cover %					
Channelized: ☐ Some recovery ☐ Recent, severe				☐ Open ☐ Lightly Shaded (11-45%)					
				☒ Heavily Shaded ☐ Moderate Shaded (46-80%)					

SEDIMENT / SUBSTRATE

Sediment Oils			Sediment Odors			Smothering of Substrates				
☒ Absent ☐ Slight			☒ Normal ☐ Sewage ☐ Petroleum			Sand Smothering: None ☐ Slight ☒ Moderate ☐ Severe ☐				
☐ Moderate ☐ Profuse			☐ Chemical ☐ Anaerobic			Silt Smothering: None ☐ Slight ☒ Moderate ☐ Severe ☐				
			☐ Other (Specify):			Algae Smothering: None ☐ Slight ☐ Moderate ☒ Severe ☒				
SUBSTRATE TYPE			WATER QUALITY							
Assessment Tool: ☒ SCI ☒ RPS ☒ LVS			Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat (%)	Cond. (UMHO/CM)	Salinity (PPT)	SECCHI (M)
☐ LCI ☐ BioRecon			Top: <u>0.15</u>	<u>15.14</u>	<u>5.86</u>	<u>11.60</u>	<u>15.4</u>	<u>35.2</u>	<u>0.02</u>	
Woody Debris (Snags) <u>2</u> <u>11</u>			Mid:							☒ VOB
Undercut Banks / Roots <u>0.4</u> <u>1</u>			Bottom:							TOTAL DEPTH
Leaf Packs or Mat <u>8</u> <u>11</u>			Meter ID:			<u>0.3</u>				
Aquatic Vegetation <u>13</u> <u>11</u>			Water Odors Normal ☒ Petroleum ☐			Water Surface Oils Normal ☒ Sheen ☐				
Rock or Shell Rubble..			Sewage ☐ Chemical ☐ Other ☐			Globs ☐ Slick ☐ Other ☐				
Sand..... <u>11</u>			Water Sample Taken? ☒ Yes ☐ No			Color Tannic ☒ Green (Algae) ☐				
Mud / Muck / Silt			Sample Preserved? ☒ Yes ☐ No			Clear ☐ Other (Specify) ☐				
Other			Lot Number: <u>See Field</u> Exp: <u>Sheets</u>			Clarity Clear ☒ Slightly Turbid ☐				
Other			Algae Sample Taken? ☒ Yes ☐ No			Turbid ☐ Opaque ☐				
			Sample Preserved? ☒ Yes ☐ No							
			Lot Number: _____ Exp: _____							
ABUNDANCE			System Type: Stream ☒ Lake ☐ Wetland ☐ Estuary ☐ Other(Specify) ☐							
Not Obs. Rare Common Abundant			AMBIENT FIELD CONDITIONS / NOTES:							
Periphyton: ☐ ☐ ☐ ☒			☒ The antecedent hydrologic conditions have been met to my best knowledge.							
Fish: ☐ ☒ ☐ ☐										
Aquatic Plants: ☐ ☐ ☐ ☒										
Iron/Sulfur Bacteria: ☒ ☐ ☐ ☐										
SAMPLING TEAM			SIGNATURE:			DATE:				
<u>Blake Spencer + Curtis Musson</u>			<u>[Signature]</u>			<u>3/8/21</u>				

SRTD: 81933 RPS: 9700

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: <i>Alford Arm Trib. @ Mico</i>					County: <i>Leon</i>		Date: <i>3/8/21</i>		Investigators: <i>Curtis Mussen</i>	
Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover	Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover	
0	1	N			60	1	4			
	2	6				2	6			
	3	6				3	6			
	4	6				4	6			
	5	6		96		5	6		0	
	6	6				6	6			
	7	6				7	6			
	8	6				8	6			
	9	N				9	6			
10	1	6			70	1	6			
	2	6				2	6			
	3	6				3	6			
	4	N				4	6			
	5	6		96		5	6		0	
	6	6				6	6			
	7	6				7	6			
	8	6				8	N			
	9	5				9	N			
20	1	4			80	1	3			
	2	6				2	6			
	3	6				3	6			
	4	6				4	6			
	5	6		96		5	6		91	
	6	6				6	6			
	7	4				7	6			
	8	4				8	6			
	9	4				9	4			
30	1	4			90	1	3			
	2	5				2	6			
	3	5				3	6			
	4	N				4	6			
	5	N		96		5	6		91	
	6	6				6	N			
	7	6				7	6			
	8	6				8	6			
	9	N				9	3			
40	1	4			100	1	5			
	2	5				2	6			
	3	6				3	6			
	4	6				4	6			
	5	6		94		5	6		0	
	6	6				6	6			
	7	6				7	6			
	8	6				8	6			
	9	3				9	6			
50	1	6			9	1	6			
	2	6				2	6			
	3	6				3	6			
	4	6				4	6			
	5	6		91		5	6			
	6	6				6	6			
	7	6				7	6			
	8	6				8	6			
	9	4				9	6			

Record "N" and check "Estimated" for points deeper than the Secchi depth; algae are presumed absent. Check "Estimated" if thickness estimated for deep points which can be seen but not reached.

Record "X" for points shallower than Secchi depth for which substrate cannot be seen or reached with the hand. No estimated rank.

Record canopy cover as the number of small densiometer quadrants (out of 96) that HAVE canopy cover. Measure facing upstream at point 4, 5, or 6.

Collect algal mat sample following DEP SOP FS 7240 if the percentage of total sampled points with a thickness rank of 4, 5, or 6 is >20%.

STORET Station Number: *GLWA 0066*

Secchi depth *1413*
 Estimated? *15*

points ranked 4-6 *95*
 total points assessed *99*
 % points ranked 4-6 *86%*

Check accompanying data collected at same site/date.

Algal mat sample	X
Linear Veg Survey	X
Habitat Assessment	X
SCI/Biorecon	<i>SCF</i> X
Water sample	X

RQ-2021-03-09-08

Algal Thickness Rank	
N	rough, no algae, slimy, algae up to 1mm
3	>1mm - 6mm
4	>6mm - 20mm
5	>20mm - 10 cm
6	>10 cm

Alford
mm
3/8/21

SRILO: 81933 LIMS: 2229909 Macrophyte: 11796

DEP FORM FD 9000-32: LINEAR VEGETATION SURVEY FIELD SHEET

Waterbody: <i>Alford Arm Tributary @ Microsuke Rd</i>	Date: <i>3/8/21</i>	County: <i>Leon</i>	Storet Number: <i>611WAC005</i>
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Analyst: Blake Spencer & Curtis Musson

Signature:

Comments:

Instructions: Note taxa growing in the water with a checkmark if present, "D" if dominant, and "C" if codominant (dominance only if 1m² of taxa present). Note in the boxes below if no dominant are selected, and note total macrophyte abundance rank for each section. Only the most common taxa are listed, so use blank spaces for additional taxa names.

	Meter Mark											Meter Mark											
	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	Specimen collected (check)		0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	Specimen collected (check)
HERBACEOUS SPECIES												HERBACEOUS SPECIES											
<i>Alternanthera philoxeroides</i>		X								X		<i>Micranthemum glomeratum</i>						X	X				
<i>Bacopa caroliniana</i>												<i>Micranthemum umbrosum</i>											
<i>Bacopa monnieri</i>												<i>Myriophyllum aquaticum</i>											
<i>Bidens mitis</i>												<i>Najas guadelupensis</i>											
<i>Boehmeria cylindrica</i>												<i>Nuphar luteum</i>											
<i>Centella asiatica</i>												<i>Orontium aquaticum</i>											
<i>Ceratophyllum demersum</i>												<i>Panicum hemitomon</i>											
<i>Chara</i>												<i>Panicum repens</i>											
<i>Cicuta maculata</i>												<i>Panicum rigidulum</i>											
<i>Cladium jamaicense</i>												<i>Pistia stratioides</i>											
<i>Colocasia esculenta</i>												<i>Polygonum glabra</i>											
<i>Commelina diffusa</i>												<i>Polygonum hydropiperoides</i>											
<i>Commelina virginica</i>												<i>Polygonum punctatum</i>						X	C	X	X		
<i>Crinum americanum</i>												<i>Pontedaria cordata</i>											
<i>Diodia virginiana</i>												<i>Potamogeton illinoensis diversifolius</i>					X	X	C	X			
<i>Eichhornia crassipes</i>												<i>Ruellia simplex</i>											
<i>Eleocharis (wispy viviparous)</i>												<i>Sacciolepis striata</i>											
<i>Hydrilla verticillata</i>												<i>Sagittaria kurziana</i>											
<i>Hydrocotyle</i>	X											<i>Sagittaria lancifolia</i>											
<i>Hygrophila polysperma</i>												<i>Sagittaria latifolia</i>											
<i>Hymenocallis</i>												<i>Salvinia minima</i>											
<i>Lachnanthes caroliniana</i>												<i>Samolus parviflora</i>											
<i>Landoltia punctata</i>												<i>Saururus cernuus</i>											
<i>Lemna</i>												<i>Sparganium americanum</i>											
<i>Limnophila sessiflora</i>												<i>Typha</i>											
<i>Ludwigia leptocarpa</i>												<i>Vallisneria americana</i>											
<i>Ludwigia palustris</i>												<i>Zizania aquatica</i>											
<i>Ludwigia peruviana</i>																							
<i>Ludwigia repens</i>												<i>Callitriche sp.</i>		X	X	X	X	X	X	X	X	X	X
<i>Luziola fluitans</i>												<i>Mikania scandens</i>		X	X							X	

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
CHAIN OF CUSTODY FORM

Date:	<u>3/8/2021</u>	Collected By:	<u>Curtis Musson, Blake Spencer</u>
Customer:	<u>WAS</u>	Sampling Agency:	<u>FDEP</u>
RQ:	<u>RQ-2021-03-08-06</u>	Project ID:	<u>SMP</u>

PLEASE RETURN THE ORIGINAL OF THIS FORM WITH SAMPLE SUBMITTAL
FORMS AND THE COOLER PACKING WORKSHEET TO THE LAB

Number of Coolers Shipped: 2

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

Site Location	Field ID/WIN ID
Alford Arm Tributary At Miccosukee Rd.	 G1WA0066

RELINQUISHED BY(SIGNATURE): *Blake Spencer*

DATE/TIME: 3/9/21
0830

THIS SECTION TO BE COMPLETED BY LABORATORY

Rec'd/Inspected By:

Rec'd/Inspected 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: Exo#1

RQ- 2021-03-08-05

Project: BMAP + 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

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.	Blake Spencer	3/8/21	0653	19.8	769.0	9.20	9.25	101.7	-	1.1713	P / F	L / F
ICV	Blake Spencer	3/4/21	0659	19.9	769	9.20	9.36	102.9	-	-	P / F	L / F
CCV	Blake Spencer	3/8/21	1739	20.8	768.4	9.20	9.07	101.5	-	-	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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	Blake Spencer	3/8/21	0701	201209H	12/2021	1000	1000	P / F	L / F
ICV	Blake Spencer	3/4/21	0702	201209H	12/2021	1000	1000	P / F	L / F
CCV	Blake Spencer	3/8/21	1743	2911C93	11/2021	1000	102.1	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.	Blake Spencer	3/8/21	0706	200407R	10/21	7.02	19.90	7.02	73.9	P / F	L / F
Calibr.	Blake Spencer	3/8/21	0708	201209E	6/22	4.00	19.90	4.00	156.6	P / F	L / F
Calibr.	Blake Spencer	3/8/21	0713	200407A	10/2021	10.06	20.1	10.06	77.9	P / F	L / F
ICV	Blake Spencer	3/8/21	0715	200407A	10/2021	10.06	20.1	10.06	-181.1	P / F	L / F
CCV	Blake Spencer	3/8/21	1744	201209E	6/22	4.00	19.8	4.02	154.7	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: _____

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:

Cooler Packing Worksheet for Request: RQ-2021-03-08-06

Alford Arm RPS

Ship Cooler On: 3/4/2021

Customer/Project: WAS-SECT/SMP

Assigned To: MCCOY_I

Requester: Curtis Musson

Priority: 3



850-245-8453

2600 Blair Stone Rd

Tallahassee, FL 32399

Attn: Curtis Musson

Comments:

Group A: Nutrients, Metals, Tracers, PSNPTQ, DIELDRIN, PCL, E. coli

Group B: Algal_ID, SCI

Packing Notes:

No FedEx Labels

No Trash Bags

1 CA H2SO4

1 CA HNO3

Requested Analyses:

Bottle Group: A

of Sites: 1

Container ID: P-1L

Qty: 1 Preservation: ICE

Lot # 0078839

Description: Plastic Bottle 1L

Analysis

ALKALINITY

TURBIDITY

W-CL-IC

W-COLOR

W-F

W-SO4-IC

W-TDS

W-TSS

Description

Alkalinity in aqueous matrices as mg CaCO3/L

Turbidity in aqueous matrices

Chloride in aqueous matrices

True Color measured at 450 nm (not valid for NPDES monitoring)

Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)

Sulfate in aqueous matrices

Total Dissolved Solids in aqueous matrices

Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample

Container ID: BP-1L

Qty: 1 Preservation: ICE

Lot # 1299839

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry

Container ID: P-250ML-WO-THI

Qty: 1 Preservation: ICE

Lot # L20275

Description: 250 ml Sterilized no tablet

Analysis

ECOLI-18QT

Description

Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems

Container ID: BG-500ML

Qty: 4 Preservation: ICE

Lot # 00078534

Description: Brown Glass Bottle 500ML

Affix BLUE dot to container.

Analysis

W-DIELDRIN

W-PCL-SQ-R

Description

Dieldrin (ultra low level) in water matrices by GC/MS/MS

Organochlorine pesticides, pyrethroids and tracers in water matrices by GC/MS-SIM

Container ID: BG-500ML

Qty: 1 Preservation: ICE

Lot # 00078714

Description: Brown Glass Bottle 500ML

Affix BLUE dot to container.

Analysis

W-E8321-DI

W-E8321-MS

Description

Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

Container ID: P-500ML

Qty: 1 Preservation: HNO3

Lot # 00079262

Description: Plastic Bottle 500 mL

Affix RED nitric acid dot to container.

Analysis

W-HARD

W-ICP

W-ICPMS

Description

Hardness by calculation, in aqueous matrices, reported as mg/L CaCO3

Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects

Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects

Container ID: P-500ML

Qty: 1 Preservation: ICE And H2SO4

Lot # 00079262

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

Analysis

W-NH3

W-NO2NO3

W-S-A-TP

W-TKN

W-TOC

Description

Ammonia in aqueous matrices as mg N/L

Nitrite/Nitrate in aqueous matrices as mg N/L

Total Phosphorus in aqueous matrices as mg P/L

Total Kjeldahl Nitrogen in aqueous matrices

Nonpurgeable Organic Carbon in aqueous matrices

Container ID: P-125ML

Qty: 1 Preservation: FILTER-ICE

Lot # 00079474

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Container ID: BG-1L

Qty: 4 Preservation: ICE

Lot # 00078933

Description: Brown Glass Bottle 1L

Affix BLUE dot to container.

Analysis

W-PSNP-TQ

Description

Organonitrogen and phosphorus pesticides in water matrices by GC/MS/MS

Bottle Group: B

of Sites: 1

Container ID: PT-50ML

Qty: 1 Preservation: ICE

Lot # 430291

Description: Plastic Tube 50 mL

Analysis

ALGAL_ID

Description

Qualitative assessment of algal taxa present without counts

Container ID: PJ-2L

Qty: 2 Preservation: Formalin

Lot # BioWash

Description: Plastic Jar 2 L

Analysis

MI-FW-QLDC

Description

No. Taxa of FW macroinverts, qual samp, 20 dipnets.

Cooler Packed By: IM Number of Coolers: 2 Date: 2/26/21

Kit must also include:

- ☒ Field Sheets
- ☒ Temperature Control Bottle
- ☒ FedEx Bills, if applicable
- ☒ Plastic Bags/Zip Ties
- ☒ Acid Labels (sets of 24)

If Preservation Included:

IC	H2SO4	Exp	Lot #
	LOT# SA0353110		
IC	EXP: 01/11/2022	Exp	Lot #
ID		Exp	Lot #
I	HNO3	Exp	Lot #
	LOT# NA0344060		
I	EXP: 01/04/2022	Exp	Lot #

PLEASE RETURN ALL COOLERS FOR RQ-2021-03-08-06