

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: Desi RQ: 2021-01-11-45 Project: JBMAP2

- 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 10/14/20

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.	Kim Appleby	1/12/21	940	21.2	761.8	8.9	8.93	100.6	-	1.0546	(P/F)	(L/F)
ICV	↓	↓	941	21.2	764.8	8.9	8.93	100.6	-	1.0546	(P/F)	(L/F)
CCV	↓	↓	1642	21.6	765.0	8.9	8.88	100.8	-	1.0546	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.	Kim Appleby	1/12/21	945	201222B	1/2-22	1000	1000	(P/F)	(L/F)
ICV	↓	↓	947	200702A	9/2021	100	104.5	(P/F)	(L/F)
CCV	↓	↓	1643	200902C	9/2021	1413	1400	(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.	Kim Appleby	1/12/21	948	2006F52	6/22	7.00	22.3	7.00	-30.0	(P/F)	(L/F)
Calibr.	↓	↓	950	2912B71	12/21	4.00	22.1	4.00	152.8	(P/F)	(L/F)
Calibr.	↓	↓	952	2006F28	12/21	10.00	22.4	10.00	206.2	(P/F)	(L/F)
ICV	↓	↓	956	2006F52	6/22	7.00	22.3	7.05	-28.4	(P/F)	(L/F)
CCV	↓	↓	1645	791237H	12/21	4.00	22.4	4.09	147.2	(P/F)	(L/F)
CCV										P/F	L/F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50 ; mV pH 4 Range $+180 \pm 50$; mV pH 10 Range -180 ± 50 ;
If mV are recorded: slope from 7 to 10 _____, slope from 4 to 7 _____ (both must be between 165 and 180 mV)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification: 10/14/20

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	Kim Appleby	1/12/21	950	0.00	0.00	(P/F)	(L/F)

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

COMMENTS:

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
CHAIN OF CUSTODY FORM

Date:	<u>1/12/2021</u>	Collected By:	<u>Kimberly Applebee, Kelly McDonald</u>
Customer:	<u>NE-DIST</u>	Sampling Agency:	<u>FDEP</u>
RQ:	<u>RQ-2021-01-11-45</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: 1****FIELD ID (Labels) submitted under this RQ for this collection date.**

Site Location	Field ID/WIN ID
Trib To Open Cr @ Windsor Park Dr N	 20030858
Open Creek At Powerlines East Of Danforth Rd.	 20030950

RELINQUISHED BY(SIGNATURE):

Kelly A McDonald

DATE/TIME: 1/12/2021 1600

THIS SECTION TO BE COMPLETED BY LABORATORY**Rec'd/Inspected By:****Rec'd/Inspected Date:**



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2020

Meter Passed End
of Day CCV
☒ Yes / No

WIN Station Name: Trib To Open Cr @ Windsor Park Dr N **Date:** 1/12/2021
WIN/Field ID: 20030858 **WBID:** 2299B **ENR:** **Latitude:** 30.26773799
County: DUVAL **Org ID:** 21FLA **Longitude:** -81.455888
Receiving Body of Water: Lower St. Johns **RQ:** 2021-01-11-45

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
☒	Kimberly Applebee	x		x		
☒	Kelly McDonald		x		x	x
☐						
☐						

Sampling Equipment	
☒ Sample Container	☐ Carboy
☐ Dipper	☐ Van Dorn
☐ Syringe	☒ Pole
Depth measured with: Meter	
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# DESI					
Photos: YES		Flow: FLOW		Tide:		Tide Times: High: Low:					
Biological Samples Collected: ☒ None ☐ HA ☐ SCI ☐ RPS ☐ Algae ID ☐ LVS ☐ LVI Other:											
SBIO ID Numbers:											
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_DDDMMYY)
DI Source:		Location:	
DI Type:		Equipment ID:	
DI Container (Name/ID):		DI Container Type:	

LIMS EVENT ID: WIN Import ID:
Enter Field Parameters, Verify Station ID In LIMS DMT: QC Station ID, Field Parameters In LIMS DMT:
(Initials/Date) (Initials/Date)
Scan/Save Field Sheets Migrate Data to WIN: Verify Data In WIN:
(Initials/Date) (Initials/Date) (Initials/Date)



RQ-2021-01-11-45

Customer: WQAP

Project ID: SMP

Collected By: Kimberly Applebee, Kelly McDonald

Field Report Prepared By: Kimberly Applebee

Sampling Agency: FDEP

Place Label Here

WIN ID/Field ID:



20030858

Location: Trib To Open Cr @ Windsor Park Dr N

Comments: Microbiology sample(s) submitted to contract laboratory

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)
1/12/2021	1140 EST	6.31	64.5	16.3	6.81	0.05	0.1 ☒ VOB (S)	0.1	311.5	0.15
	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 Lot # Exp:	☐ Ice ☐ H2SO4*	☐ <2		
Metals (P-500ML)	☒ W-ICPMS ☒ W-ICP ☒ W-HARD Lot # NA0038050 Exp:	☒ Ice ☒ HNO3*	☒ <2	1	B
Filtered Nutrients (P125ML)	☐ W-PO4-F ☐ Field Filtered 0.45 µm Filter Filter Lot # Syringe Lot #	☐ Ice			
Chlorophyll (BP-1L)	☐ CHLSUITE-W	☐ Ice			
Physical/Aggregate (Fresh) (P-1L)	☐ Alkalinity / W-F / W-TSS / TURBIDITY / W-CL-IC / W-COLOR / W-SO4-IC / W-TDS	☐ Ice			
Physical/Aggregate (Marine) (P-1L)	☐ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates (PJ-2L)	☐ MI-FW-QLDC	☐ Formalin			
Periphyton (PT-50ML)	☐ ALGAE-ID	☐ Ice			
Microbiology (Contract Lab Bottle)	☒ E Coli ☐ F Coli ☐ Enterococci ☒ Contract Lab	☒ Ice		1	B
Molecular (QPCR-P-500ML)	☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-DG3 ☐ PCR-GULL2 ☐ PCR-GFD	☐ Ice			
Tracers (BG-500ML)	☐ W-E8321-DI ☐ W-E8321-MS	☐ Ice			
Pesticides (BG-500ML) (BG-1L)	☐ W-E8321-DI ☐ WE8321-MS ☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-PCL-SQ-R ☐ W-CARB-AA (5 ml of MCAA** Buffer Solution) ☐ W-DIELDRIN	☐ Ice			
Phytoplankton/Periphyton	DTM-QL-C PEN-QL-C DTY-QN-C PKD-QN-C DTM-QN-C PRN-QN-C PKD-QN-BV	☐ Ice			

Name:
Kimberly Applebee
Kelly McDonald

Signature:

Kelly A McDonald

Date:

1/12/2021

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2020

Meter Passed End
of Day CCV
☒ Yes / ☐ No

WIN Station Name: Open Creek At Powerlines East Of Danforth Rd. **Date:** 1/12/2021
WIN/Field ID: 20030950 **WBID:** 2299B **ENR:** **Latitude:** 30.2732
County: DUVAL **Org ID:** 21FLA **Longitude:** -81.4542
Receiving Body of Water: Lower St. Johns **RQ:** 2021-01-11-45

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
☒	Kimberly Applebee	x		x		
☒	Kelly McDonald		x		x	x
☐						
☐						

Sampling Equipment	
☒ Sample Container	☐ Carboy
☐ Dipper	☐ Van Dorn
☐ Syringe	☒ Pole
Depth measured with: Meter	
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# DESI					
Photos: YES		Flow: FLOW		Tide:		Tide Times: High: Low:					
Biological Samples Collected: ☒ None ☐ HA ☐ SCI ☐ RPS ☐ Algae ID ☐ LVS ☐ LVI Other:											
SBIO ID Numbers:											
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_DDDMMYY)
DI Source:	Location:		
DI Type:	Equipment ID:		
DI Container (Name/ID):		DI Container Type:	

LIMS EVENT ID: WIN Import ID:
Enter Field Parameters, Verify Station ID In LIMS DMT: QC Station ID, Field Parameters In LIMS DMT:
(Initials/Date) (Initials/Date)
Scan/Save Field Sheets Migrate Data to WIN: Verify Data In WIN:
(Initials/Date) (Initials/Date) (Initials/Date)



RQ-2021-01-11-45

Customer: WQAP

Project ID: SMP

Collected By: Kimberly Applebee, Kelly McDonald

Field Report Prepared By: Kimberly Applebee

Sampling Agency: FDEP

Place Label Here

WIN ID/Field ID:



20030950

Location: Open Creek At Powerlines East Of Danforth Rd.

Comments: Microbiology sample(s) submitted to contract laboratory

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)
1/12/2021	1230 EST	7.99	80.6	15.8	7.22	0.05	0.178 ☒ VOB (S)	0.178	402.8	0.19
	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 Lot # SA0293040 Exp: 10/19/20	☒ Ice ☒ H2SO4*	☒ <2	1	A
Metals (P-500ML)	☒ W-ICPMS ☒ W-ICP ☒ W-HARD Lot # NA9354060 Exp: 12/20/20	☒ Ice ☒ HNO3*	☒ <2	1	A
Filtered Nutrients (P125ML)	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter Filter Lot # R9BA868875 Syringe Lot #	☒ Ice		1	A
Chlorophyll (BP-1L)	☒ CHLSUITE-W	☒ Ice		1	A
Physical/Aggregate (Fresh) (P-1L)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CL-IC / W-COLOR / W-SO4-IC / W-TDS	☒ Ice		1	A
Physical/Aggregate (Marine) (P-1L)	☐ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates (PJ-2L)	☐ MI-FW-QLDC	☐ Formalin			
Periphyton (PT-50ML)	☐ ALGAE-ID	☐ Ice			
Microbiology (Contract Lab Bottle)	☒ E Coli ☐ F Coli ☐ Enterococci ☒ 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			
Pesticides (BG-500ML) (BG-1L)	☐ W-E8321-DI ☐ WE8321-MS ☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-PCL-SQ-R ☐ W-CARB-AA (5 ml of MCAA** Buffer Solution) ☐ W-DIELDRIN	☐ Ice			
Phytoplankton/Periphyton	☐ DTM-QL-C ☐ PEN-QL-C ☐ DTY-QN-C ☐ PKD-QN-C ☐ DTM-QN-C ☐ PRN-QN-C ☐ PKD-QN-BV	☐ Ice			

Name:
Kimberly Applebee
Kelly McDonald

Signature:

Kelly A McDonald

Date:

1/12/2021

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution



Florida DEP North East District ROC BMAP Field sheet

Data Pass CCV?

Yes/No

Date: 1/12/2021 RQ#: 2021-01-11-45Event Name: BB km BMAP 2 Meter ID: Pro DSS DESISampling Team Members: K. McDonald, K. Appleby

All bacteria samples taken are surface water grab samples.

WIN ID/Field ID:  20030848					WBID Number <u>2299B</u>		Matrix: Surface ☒ Fresh ☒ Surface Salt ☐		Sample Type: E. coli ☒ Enterococcus ☐ Fecal ☐		Initials Sample & Preservation <u>KM</u>		Initials Documentation <u>KA</u>	
NW TRIBUTARY TO OPEN CR AT HODGES					Sample Access: Wading ☐ Dock ☐ From Shore ☒ Bridge ☐		Sample Ice Preserved in 15 minutes? Yes ☒ No ☐							
Time	Total depth(m)	Sample depth(m)	Temp °C	Conductivity µmhos	Salinity ppt	pH s.u.	D.O. mg/L	D.O. % sat	Secchi m	Tide Ebb/ Flood Slack				
<u>1210</u>	<u>0.31</u>	<u>0.15</u>	<u>15.6</u>	<u>436.6</u>	<u>0.21</u>	<u>7.33</u>	<u>8.66</u>	<u>87.1</u>	<u>0.31(5)</u>	<u>N/A</u>				
Comments and Weather:														

WIN ID/Field ID:  20030653					WBID Number <u>2204</u>		Matrix: Surface ☒ Fresh ☐ Surface Salt ☐		Sample Type: E. coli ☒ Enterococcus ☐ Fecal ☐		Initials Sample & Preservation <u>KM</u>		Initials Documentation <u>KA</u>	
TERRAPIN CR AT FAYE ROAD					Sample Access: Wading ☐ Dock ☐ From Shore ☒ Bridge ☐		Sample Ice Preserved in 15 minutes? Yes ☒ No ☐							
Time	Total depth(m)	Sample depth(m)	Temp °C	Conductivity µmhos	Salinity ppt	pH s.u.	D.O. mg/L	D.O. % sat	Secchi m	Tide Ebb/ Flood Slack				
<u>1320</u>	<u>0.1</u>	<u>0.05</u>	<u>14.9</u>	<u>183.0</u>	<u>0.09</u>	<u>6.71</u>	<u>6.76</u>	<u>67.1</u>	<u>0.1(5)</u>	<u>N/A</u>				
Comments and Weather:														

WIN / Field ID:  20030123					WBID Number <u>2203B</u>		Matrix: Surface ☐ Fresh ☐ Surface Salt ☒		Sample Type: E. coli ☐ Enterococcus ☒ Fecal ☐		Initials Sample & Preservation <u>KM</u>		Initials Documentation <u>KA</u>	
TROUT R @ DINSMORE BOAT RAMP DOCK NR US 1					Sample Access: Wading ☐ Dock ☒ From Shore ☐ Bridge ☐		Sample Ice Preserved in 15 minutes? Yes ☒ No ☐							
Time	Total depth(m)	Sample depth(m)	Temp °C	Conductivity µmhos	Salinity ppt	pH s.u.	D.O. mg/L	D.O. % sat	Secchi m	Tide Ebb/ Flood Slack				
<u>1345</u>	<u>0.4</u>	<u>0.2</u>	<u>12.5</u>	<u>417.3</u>	<u>0.20</u>	<u>6.92</u>	<u>7.66</u>	<u>71.9</u>	<u>0.4(5)</u>	<u>Ebb</u>				
Comments and Weather:														

Signature: Kelly McDonaldDate: 1/12/21

Field Sheet Scanned (Initials/date): _____ Parameters uploaded to LIMS (Initials/date): _____

Data QC'd in LIMS (Initials/date): _____ Data Migrated to WIN (Initials/date): _____

WIN / Field ID:



20030753

TROUT RIVER AT
OLD KINGS RD

WBID Number 2203		Matrix: Surface ☒ Fresh ☒ Surface Salt ☐		Sample Type: E. coli ☒ Enterococcus ☐ Fecal ☐		Initials Sample & Preservation KM		Initials Documentation KA		
Sample Access: Wading ☐ Dock ☐ From Shore ☒ Bridge ☐				Sample Ice Preserved in 15 minutes? Yes ☒ No ☐						
Time	Total depth(m)	Sample depth(m)	Temp °C	Conductivity µmhos	Salinity ppt	pH s.u.	D.O. mg/L	D.O. % sat	Secchi m	Tide Ebb/ Flood Slack
1110	0.55	0.25	13.4	133.5	0.06	6.35	8.49	81.3	0.53/5	N/A

Comments and Weather:

WIN / Field ID:



20030897

MONCRIEF CR @ 21ST ST

WBID Number 2228B		Matrix: Surface ☒ Fresh ☒ Surface Salt ☐		Sample Type: E. coli ☒ Enterococcus ☐ Fecal ☐		Initials Sample & Preservation KM		Initials Documentation KA		
Sample Access: Wading ☐ Dock ☐ From Shore ☐ Bridge ☒				Sample Ice Preserved in 15 minutes? Yes ☒ No ☐						
Time	Total depth(m)	Sample depth(m)	Temp °C	Conductivity µmhos	Salinity ppt	pH s.u.	D.O. mg/L	D.O. % sat	Secchi m	Tide Ebb/ Flood Slack
1430	0.1	0.05	17.8	475.6	0.23	7.21	6.35	66.9	0.1/5	N/A

Comments and Weather:

WIN / Field ID:



20030726

MONCRIEF CR AT MONCRIEF ROAD

WBID Number 2228B		Matrix: Surface ☒ Fresh ☒ Surface Salt ☐		Sample Type: E. coli ☒ Enterococcus ☐ Fecal ☐		Initials Sample & Preservation KM		Initials Documentation KA		
Sample Access: Wading ☐ Dock ☐ From Shore ☒ Bridge ☐				Sample Ice Preserved in 15 minutes? Yes ☒ No ☐						
Time	Total depth(m)	Sample depth(m)	Temp °C	Conductivity µmhos	Salinity ppt	pH s.u.	D.O. mg/L	D.O. % sat	Secchi m	Tide Ebb/ Flood Slack
1445	0.58	0.3	15.2	434.6	0.21	7.39	7.77	77.5	0.58/1	Low

Comments and Weather:

WIN Number / Site Name

WBID Number		Matrix: Surface ☐ Fresh ☐ Surface Salt ☐		Sample Type: E. coli ☐ Enterococcus ☐ Fecal ☐		Initials Sample & Preservation		Initials Documentation		
Sample Access: Wading ☐ Dock ☐ From Shore ☐ Bridge ☐				Sample Ice Preserved in 15 minutes? Yes ☐ No ☐						
Time	Total depth(m)	Sample depth(m)	Temp °C	Conductivity µmhos	Salinity ppt	pH s.u.	D.O. mg/L	D.O. % sat	Secchi m	Tide Ebb/ Flood Slack

Comments and Weather:

[illegible]

Page 1 of 1

ALS Contact: Mandy Sullivan

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