Request Number: RQ-2016-08-22-32

Holly Hill Ditch & Mizner's Branch

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Apr 7, 2016

Customer: CEN-DIST

Project ID: SMP

Requester: Michael Linger

Collected By: Rachelle Hardie

Field Report Prepared By: Alyse Harrell

Sampling Agency: Volusia County

Location: Mizner's Branch @ Falls Way Drive

G5CE0050 Field ID STORET 27010068

Field ID: RQ-2016-08-22-32

STORET: Date: Time:

Latitude ☐dd ☐dms Longitude ☐dd ☐dms

☐ Comp ☒ Grab | Collection (comp begin or grab) Eastern Date 9/19/2016 Time 0930 Central | Composite end Date Time | Bottle Group(s) (See pg 2): A

Matrix (type, e.g., Salt, Fresh, etc): Fresh

Diss. Oxygen 4.38 ☒ mg/L 54.1 ☒ % sat | Total Res. Chlorine (mg/L) N/A

Temp (C) 26.1 | pH 7.05 | Sample Depth 0.10 ☐ ft ☒ m | Sp. Conductance (umho/cm) 455.4

Salinity (ppt) 0.22 | Comments

Location: Holly Hill Ditch @ Ridgewood

G5CE0060 Field ID STORET 27010479

Field ID: RQ-2016-08-22-32

STORET: Date: Time:

Latitude ☐dd ☐dms Longitude ☐dd ☐dms

☐ Comp ☒ Grab | Collection (comp begin or grab) Eastern Date 9/9/2016 Time 1615 Central | Composite end Date Time | Bottle Group(s): A

Matrix (type, e.g., Salt, Fresh, etc): Fresh

Diss. Oxygen 1.70 ☒ mg/L 22.2 ☒ % sat | Total Res. Chlorine (mg/L) N/A

Temp (C) 27.9 | pH 7.13 | Sample Depth 0.5 ☐ ft ☒ m | Sp. Conductance (umho/cm) 8130

Salinity (ppt) 4.49 | Comments

Location:

Field ID:

STORET #:

Latitude ☐dd ☐dms Longitude ☐dd ☐dms

☐ Comp ☐ Grab | Collection (comp begin or grab) Eastern Date Time Central | Composite end Date Time | Bottle Group(s)

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

Location:

Field ID:

STORET #:

Latitude ☐dd ☐dms Longitude ☐dd ☐dms

☐ Comp ☐ Grab | Collection (comp begin or grab) Eastern Date Time Central | Composite end Date Time | Bottle Group(s)

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

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Alyse C Harrell	9/19/16	FED EX	1	SK	9-20-16/9:35

Group: A	Bottle Type:	P-1L	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab 2
	ALKALINITY					
	TURBIDITY					
	W-CL-IC					
	W-COLOR					
	W-F					
	W-SO4-IC					
	W-TDS					
	W-TSS					
Group: A	Bottle Type:	BP-1L	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab 2
	CHLSUITE-W					
Group: A	Bottle Type:	P-500ML	# of Bottles: 2	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab 2
	W-NH3					
	W-NO2NO3					
	W-S-A-TP					
	W-TKN					
	W-TOC					
Group: A	Bottle Type:	P-125ML	# of Bottles: 2	Preservative:	ICE-FLTR	Enter Number of Bottles Sent to Lab 2
	W-PO4-F					

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

June 2016

PAGE ____ OF ____

Data Qualified? Yes / No

STORET Station Name: Mizner's Branch @ Falls Way Drive **Date:** 09/19/2016 (mm/dd/yyyy)

STORET Station ID: 27010068 **WBID:** 2645 **Latitude:** 29.266964 (Decimal Degrees)

County: Volusia **RQ -** 2016-08-22-32 **ORG ID:** 21FLCEN **Longitude:** -81.087561 (Decimal Degrees)

Receiving Body of Water: _____ **Field ID:** G5CE0050

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Rachelle Hadcle	X	X		X	X
Alyse Howell	X		X		

Sampling Equipment

☒ Sample Container ☐ Van Dorn ☐ Pole
☐ Carboy ☐ Syringe
☐ Dipper ☐ Other _____
Equipment ID _____

Collection Method

☒ Wading
☐ From Shore
☐ Other (note below) _____

Via Boat: ☐ Canoe/Kayak ☐ Electric Motor ☐ Gasoline Motor

Water Level: Dry / Low / (Normal) / High / Flooded

Matrix: (Fresh) / Marine / DI

Meter ID# YSI 1009 **Photos:** Yes / (No)

Tide Falling: Yes / No / (NA)

Time Zone	Time	Sample Depth (m)	Total Depth (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (ppt)	Secchi Disk (m)	Sp COND (µmhos/cm)	Temp. (C°)
EST	0930	0.10 ~~0.05~~ AH 9-19-16	0.18	4.38	54.1	7.05	0.22	0.18	455.4	26.1
CEN										

Biological Samples Collected: (None) HA SCI LVS RPS LVI Other _____

Parameter Suite	Parameter Methods	Preservation	Acid Lot#	Expiration	pH Check
Preserved Nutrients	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☒ Ice ☒ H_2SO_4	1209120	7-27-17	☐ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO_3			☐ <2
Filtered Nutrients	☒ W-PO4-F ☐ Field Filtered 0.45 µm Filter	☒ Ice			
Chlorophyll	☒ CHLSUITE-W	☒ Ice			
BOD	☐ BOD-UNIN	☐ Ice			
Physical/Aggregate (Fresh)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS	☒ Ice			
Physical/Aggregate (Marine)	☐ Alkalinity / W-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates	☐ MI-FW-QLDC	☐ Formalin			
Microbiology	☐ E Coli ☐ F Coli ☐ Entero ☐ QPCR	☐ Ice			
Periphyton	☐ ALGAE-ID	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PC-AA-SF ☐ W-UHERB-AA ☐ W-GLYPH	☐ Ice ☐ Other			

Place Preservative Sticker(s) Here (If Available)

Notes:
Flow for rivers/streams: _____ m/s

Mizner's Branch @ Falls Way Drive

RQ-2016-08-22-32

Date: Time:

G5CE0050
Field ID
STORET
27010068

Signature: Alyse C Howell Date: 9/19/16

Field Parameters Entered into LIMS: _____ (Initials/Date) T.Sheet Updated: ☐ Field Parameters QC in LIMS: _____ (Initials/Date) T.Sheet Updated: ☐

Date Migrated to STORET: _____ (Initials/Date) T.Sheet Updated: ☐ Field Sheets Scanned/Saved: _____ (Initials/Date) T.Sheet Updated: ☐

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

June 2016

PAGE ____ OF ____

Data Qualified? Yes / No

STORET Station Name: Holly Hill Ditch @ Ridgewood **Date:** 09/19/2016 (mm/dd/yyyy)

STORET Station ID: 27010479 **WBID:** 2647 **Latitude:** 29.245667 (Decimal Degrees)

County: Volusia **RQ -** 2016-08-22-32 **ORG ID:** 21FLCEN **Longitude:** -81.041778 (Decimal Degrees)

Receiving Body of Water: _____ **Field ID:** G5CE0060

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Rachelle Hadcle		X		X	X
Alyse Howell	X		X		

Sampling Equipment

☐ Sample Container ☒ Van Dorn ☐ Pole
☐ Carboy ☐ Syringe
☐ Dipper ☐ Other _____
Equipment ID _____

Collection Method

☐ Wading
☒ From Shore
☐ Other (note below)

Via Boat
☐ Canoe/Kayak
☐ Electric Motor
☐ Gasoline Motor

Water Level: Dry / Low / (Normal) / High / Flooded

Matrix: (Fresh) / Marine / DI

Meter ID# YSI 1009 **Photos:** Yes / (No)

Tide Falling: Yes / No / (NA)

Time Zone	Time	Sample Depth (m)	Total Depth (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (ppt)	Secchi Disk (m)	Sp COND (µmhos/cm)	Temp. (C°)
EST	1015	0.5	1.5	1.70	22.2	7.13	41.49	0.9	8130	27.9
CEN										

Biological Samples Collected: (None) HA SCI LVS RPS LVI Other _____

Parameter Suite	Parameter Methods	Preservation	Acid Lot#	Expiration	pH Check
Preserved Nutrients	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☒ Ice ☒ H_2SO_4	6209120	7-27-17	☑ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO_3			☐ <2
Filtered Nutrients	☒ W-PO4-F ☐ Field Filtered 0.45 µm Filter	☐ Ice			
Chlorophyll	☒ CHLSUITE-W	☐ Ice			
BOD	☐ BOD-UNIN	☐ Ice			
Physical/Aggregate (Fresh)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS	☐ Ice			
Physical/Aggregate (Marine)	☐ Alkalinity / W-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates	☐ MI-FW-QLDC	☐ Formalin			
Microbiology	☐ E Coli ☐ F Coli ☐ Entero ☐ QPCR	☐ Ice			
Periphyton	☐ ALGAE-ID	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PC-AA-SF ☐ W-UHERB-AA ☐ W-GLYPH	☐ Ice ☐ Other			

Place Preservative Sticker(s) Here (If Available)

Notes: Flow for rivers/streams: _____ m/s

Holly Hill Ditch @ Ridgewood

RQ-2016-08-22-32

Date: Time:

G5CE0060
Field ID
STORET
27010479

Signature: Alyse C Howell Date: 9/19/2016

Field Parameters Entered into LIMS: _____ (Initials/Date) T.Sheet Updated: ☐ Field Parameters QC in LIMS: _____ (Initials/Date) T.Sheet Updated: ☐

Date Migrated to STORET: _____ (Initials/Date) T.Sheet Updated: ☐ Field Sheets Scanned/Saved: _____ (Initials/Date) T.Sheet Updated: ☐

RQ-2016-08-22-32

Date of Request: 04-AUG-2016
Created By: LINGER_M On: 04-AUG-2016
Modified By: MATTHEWS_D On: 09-AUG-2016
Customer: CEN-DIST
Project: SMP
Division:
District: Central District
Sampling Event: Holly Hill Ditch & Mizner's Branch

Send Coolers To:

Phone: 407-897-4180
FL Dept. of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767
Attn: Mike Linger

Send Final Report To:

FL Dept. of Environmental Protection
3319 Maguire Blvd., Suite 232
Orlando, FL 32803-3767
Attn: Mike Linger

Program Module Number: 1306
Priority: 3
Event Status: S
Criminal Investigation: NO
Chemistry Request Reviewed By: WATTS_J On: 05-AUG-2016
Biology Request Reviewed By: MATTHEWS_D On: 09-AUG-2016
Sampling Kit Required: YES Ship on: 15-AUG-2016
Sampling Kit Shipped: YES On: 15-AUG-2016
Sampling Kit Packed By: BOWDEN_M
Preservatives Needed: NO
Date to Receive Samples: 22-AUG-2016
Received By:

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

Comments:

Bottle Group A (Water) With 2 Samples:

Bottle Type: P-1L Number of Bottles: 2 Preserved With: ICE

ALKALINITY	Template: DEFAULT	(SM 2320 B-97) Alkalinity in aqueous matrices as mg CaCO3/L
TURBIDITY	Template: DEFAULT	(EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices
W-CL-IC	Template: DEFAULT	(EPA 300.0 Rev. 2.1) Chloride in aqueous matrices
W-COLOR Color (true)	Template: DEFAULT	(SM 2120 B) True Color measured at 450 nm
W-F	Template: DEFAULT	(SM 4500 F-C-97) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
W-SO4-IC	Template: DEFAULT	(EPA 300.0 Rev. 2.1) Sulfate in aqueous matrices
W-TDS	Template: DEFAULT	(SM 2540 C-97) Total Dissolved Solids in aqueous matrices
W-TSS	Template: DEFAULT	(SM 2540 D-97) Total Suspended Solids in aqueous matrices

Bottle Type: BP-1L Number of Bottles: 2 Preserved With: ICE

CHLSUITE-W	Template: DEFAULT	(SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, phaeophytin and ratio by spectrophotometry

Bottle Type: P-500ML Number of Bottles: 2 Preserved With: ICE And H2SO4

W-NH3	Template: DEFAULT	(EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L
W-NO2NO3	Template: DEFAULT	(EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L
W-S-A-TP	Template: DEFAULT	(EPA 365.1 Rev. 2.0) Total Phosphorus in aqueous matrices as mg P/L
W-TKN	Template: DEFAULT	(EPA 351.2 Rev. 2.0) Total Kjeldahl Nitrogen in aqueous matrices
W-TOC	Template: DEFAULT	(SM 5310 B-00) Nonpurgeable Organic Carbon in aqueous matrices

Bottle Type: P-125ML Number of Bottles: 2 Preserved With: ICE-FLTR

W-PO4-F	Template: DEFAULT	(EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

RQ-2016-08-22-32

Log-in Checklist

Shipping Method: Fedex

Date/Time of Receipt: 9-20-16/10:35

Cooler ID	Cooler Temperature*	No. Sample Containers in Cooler	Evidence Tape				Tracking # (fill out only if waybill copy is damaged)
			Present?		*Intact?		
			Yes	No	Yes	No	
Red	0.9	8		✓			810392840225

*If the temperature of a cooler is above 6.0 °C (or above 10.0 °C for W-1-4-DIOX), or if Evidence Seal is damaged, identify the containers in the affected cooler(s) on back of this form.

**Note: If "No" is checked in any of the fields below, fill out the back of this form with additional details (Field ID, Test IDs, etc.) and generate an NCR.

**Chain of Custody/ Field Sheet(s) Included? Yes ✓ No____

CONTAINER CHECK

**Evidence Tape on Bottles? Yes____ No ✓ If yes, is it intact? Yes ✓ No____

**Caps on tight? Yes ✓ No____ **Containers intact? Yes ✓ No____

**Sufficient Sample Volume: Yes ✓ No____

CHLORINE CHECK (Blue dot on container)

Check the Box marked "Yes" or "No" for the Presence of Chlorine. If Cl detected, an NCR is required.					
Analysis	Yes	No	Analysis	Yes	No
W-1,4 DIOX			W-PC-AA-SF		
W-AHERB-AA (-AHB-AA-R)			W-PCL-SQ (-R)		
W-BNA (-625, -R)			W-PDQUAT		
W-CARB-AA (-CAB-AA-R)			W-PESTNP-R		
W-ENDO-AA			W-PSCL-TQ		
W-GLYPH			W-PSNP-TQ		
W-NP-AA-SF			W-PST-CL-R		
W-PAH (-R)			W-TR-TQ		
W-PCB-R					

PRESERVATION CHECK (EXCLUDING SAMPLES SENT TO OVERFLOW LABS, "OV-")

**Acid Preserved Samples: pH ≤ 2.0? Yes ✓ No____ NA____ Init: SK

**W-1-4-DIOX (Green dot on container) preserved to pH < 4.0? Yes____ No____ NA ✓ Init: SK

Coolers Unpacked/Checked by: SK Date: 9-20-16 NCRs (Y/N)? ✓

Event ID: CEN-DIST-201609-20-01 NCR # _____

Log-in Checklist

Samples with Incorrect pH Preservation or presence of Chlorine

Field ID	Bottle Test ID(s)	pH / Cl	Action Taken

Samples in Coolers with Incorrect Preservation or Damaged Evidence Tape

Cooler ID	Field ID	Bottle Test ID(s)

Bottles Not Intact

Field ID	Bottle Test ID(s)	Loose Cap	Damaged Cap		Damaged Container		Evidence Tape Not Intact
			CK	BR	CK	BR	

Samples with Insufficient Volume for Analyses

Field ID	Bottle Test ID(s)	Action Taken

ENCORE SAMPLES

S-VOC-MS samples in Encores must be frozen within 48 hours of collection.

Were Encore samples received? Yes____ No____

Date and time placed in freezer _____

Were all samples placed in freezer within 48 hours of collection? Yes_____ No_____

If no, were samples shipped on dry ice? Yes_____ No_____

FOR CLEAN LAB USE ONLY – Total Mercury Preservation Check (W-HG-AF; W-HG-AF-F):

Samples preserved within 48 hours? Yes_____ No_____

Date and time samples preserved: _____

Additional Comments:

Kitchen, Shawn

From: Watts, John
Sent: Tuesday, September 20, 2016 9:31 AM
To: Shaik, Amzad; Lashley, Connor; Bowden, Magan; Kitchen, Shawn
Cc: White, Ramsey
Subject: FW: RQ-2016-08-22-32

Log-in staff, be on the lookout for this one.

John Watts
Florida DEP Labs
Scientific Support Section
Voice: 850-245-8077
Direct: 58077

From: Linger, Michael
Sent: Tuesday, September 20, 2016 9:08 AM
To: Watts, John <John.Watts@dep.state.fl.us>
Cc: Ayala, Natalie <Natalie.Ayala@dep.state.fl.us>
Subject: RQ-2016-08-22-32

John,

I just wanted to give you a heads up that today you will be receiving a cooler (RQ-2016-08-22-32) with a submittal form that has the wrong matrix (fresh instead of salt). See below. Volusia County is assisting us with some sampling and isn't familiar with our forms. I will inform them on how to fill it out properly.

But I just want to make sure, the cut off for freshwater verses saltwater is a specific conductance of 4820 umho/cm

Request Number: RQ-2016-08-22-32

Holly Hill Ditch & Mizner's Branch

Customer: CEN-DIST

Project ID: SMP

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Requester: Michael Linger

Collected By: Rachelle Hoxie

Field Report Prepared B

Sampling Agenc

Location: Mizner's Branch @ Falls Way Drive	G5CE0050 Field ID / STORET 27010068	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 9/19/2016	Time 0930	Eastern / Central	Com Date					
Field ID: RQ-2016-08-22-32		Matrix (type, e.g., Salt, Fresh, etc): Fresh			Diss. Oxygen 4.38 / 54.1	☒ mg/ ☒ % s					
STORE Date: Time:		Temp (C) 26.1	pH 7.05		Sample Depth 0.10	☐ ft ☒ m	Sp. C (umh				
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt) 0.22	Comments								
Location: Holly Hill Ditch @ Ridgewood	G5CE0060 Field ID / STORET 27010479	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 9/9/2016	Time 1015	Eastern / Central	Com Date					
Field ID: RQ-2016-08-22-32		Matrix (type, e.g., Salt, Fresh, etc): Fresh			Diss. Oxygen 1.70 / 22.2	☒ mg/ ☒ % s					
STORET # Date: Time:		Temp (C) 27.9	pH 7.13		Sample Depth 0.5	☐ ft ☒ m	Sp. C (umh				
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt) 4.49	Comments								
Location		☐ Comp ☐ Grab	Collection (comp begin or grab) Date	Time	Eastern / Central	Com Date					
Field ID		Matrix (type, e.g., Salt, Fresh, etc):			Diss. Oxygen	☐ mg/ ☐ % s					
STORET #		Temp (C)	pH		Sample Depth	☐ ft ☐ m	Sp. C (umh				
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments								
Location		☐ Comp ☐ Grab	Collection (comp begin or grab) Date	Time	Eastern / Central	Com Date					
Field ID		Matrix (type, e.g., Salt, Fresh, etc):			Diss. Oxygen	☐ mg/ ☐ % s					
STORET #		Temp (C)	pH		Sample Depth	☐ ft ☐ m	Sp. C (umh				
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments								

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:
Alyse C Howell	9/19/16	FED EX	1	

Thank you,

Michael Linger
Environmental Specialist
Florida Department of Environmental Protection
Division of Environmental Assessment and Restoration
3319 Maguire Blvd. Suite 232
Orlando FL, 32803
407-897-4180