



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

Qualified Data

October 2017

Location/STORET Station Name: Iron Bridge WWTF - Little Econ River @ ~0.25 miles upstream Date: 01/10/2018
(mm/dd/yyyy)

STORET # US - site 1 - 1 WBID: _____ Latitude: 28.61660
(Decimal Degrees)

County: Seminole RQ - _____ ORG ID: 21FLCEN Longitude: -81.21965
(Decimal Degrees)

Receiving Body of Water: Econ River Field ID: US - site 1 - 1

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Mike Linger					/	/	/	/	/
Mike Drennan					/	/	/	/	/

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

Water Level: Dry / Low / <u>Normal</u> / Above Normal / Flooded				Meter ID# <u>Beop / Non</u>		Matrix: <u>Fresh</u> / Marine / DI				
Photos: <u>Yes</u> / No		Flow: No Flow / Intestinal / <u>Flowing</u> / NA		Tide: Rising / Falling / Slack / NA		Tide Times: High _____ Low _____				
Time Zone	Time	Sample Depth (m)	Total Depth (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPTH)	Secchi Disk (m)	Sp COND (µmhos/cm)	Temp. (C°)
<u>EST</u>	<u>1055</u>	<u>0.3</u>	<u>4.7</u>	<u>8.89</u>	<u>86.7</u>	<u>6.83</u>	<u>0.10</u>	<u>1.6</u>	<u>203</u>	<u>14.23</u>
CEN										

Biological Samples Collected: None HA SCI RPS Algae ID LVS LVI Other _____									
SBIO ID Numbers: SBIO-ID: _____ HA-ID: _____ RPS-ID: _____ Macrophyte-ID: _____ LIMS#: _____									
Parameter Suite	Parameter Methods				Preservation	Lot#	Expiration	pH Check	
Preserved Nutrients	☐ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP				☐ Ice ☐ H2SO4			☐ <2	
Metals	☐ W-ICPMS ☐ W-ICP				☐ Ice ☐ HNO3			☐ <2	
Filtered Nutrients	☐ W-PO4-F ☐ Field Filtered 0.45 µm Filter				☐ Ice				
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-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-HF183 ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-GFD				☐ Ice				
Tracers	☐ W-SUC-AA-R ☐ W-UHERB-AA ☐ W-AHERB-AA				☐ Ice				
Pesticides	☐ W-PSNP-TQ ☐ W-UHERB-AA ☐ W-AHERB-AA ☐ W-PCL-SQ-R ☐ W-PYR-AA-R ☐ W-GLYPH ☐ W-SUC-AA-R				☐ Ice ☐ Other				

Notes:	US_site 1_1
	Iron Bridge WWTF - Little Econ River @ 0.25 miles upstream of discharge point
	Date: 01/10/2018
Signature: _____	Date: _____

Field Parameters Entered into LIMS: _____ (Initials/Date) Field Parameters QC in LIMS: _____ (Initials/Date)
Date Migrated to STORET: _____ (Initials/Date) Field Sheets Scanned/Saved: _____ (Initials/Date)



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

October 2017

Qualified Data

Location/STORET Station Name: Iron Bridge WWTF - Little Econ River @ 0.13 miles downstream Date: 01/10/2018
(mm/dd/yyyy)

STORET # US_site 2 - 1 WBID: _____ Latitude: 28.61753
(Decimal Degrees)

County: Seminole RQ - _____ ORG ID: 21FLCEN Longitude: -81.21584
(Decimal Degrees)

Receiving Body of Water: Econ River Field ID: US_site 2 - 1

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment					
Mike Linger										☒ Sample Container	☐ Van Dorn	☐ Pole			
										☐ Carboy	☐ Syringe				
Mike Drennan										☐ Dipper	☐ Other				
Water Level: Dry / Low / <u>Normal</u> / Above Normal / Flooded										Meter ID# <u>Boop / Non</u>		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	Sample Depth (m)	Total Depth (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPTH)	Secchi Disk (m)	Sp COND (µmhos/cm)	Temp. (C°)					
EST	1108	0.3	1.5	9.02	90.6	7.14	0.13	1.5 (s)	264	15.76					
CEN															

Biological Samples Collected: None HA SCI RPS Algae ID LVS LVI Other _____									
SBIO ID Numbers: SBIO-ID: _____ HA-ID: _____ RPS-ID: _____ Macrophyte-ID: _____ LIMS#: _____									
Parameter Suite	Parameter Methods					Preservation	Lot#	Expiration	pH Check
Preserved Nutrients	☐ W-NH3 / ☐ W-NO2NO3 / ☐ W-TKN / ☐ W-TOC / ☐ W-S-A-TP					☐ Ice ☐ H2SO4			☐ <2
Metals	☐ W-ICPMS ☐ W-ICP					☐ Ice ☐ HNO3			☐ <2
Filtered Nutrients	☐ W-PO4-F ☐ Field Filtered 0.45 µm Filter					☐ Ice			
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-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-HF183 ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-GFD					☐ Ice			
Tracers	☐ W-SUC-AA-R ☐ W-UHERB-AA ☐ W-AHERB-AA					☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-UHERB-AA ☐ W-AHERB-AA					☐ Ice			
	☐ W-PCL-SQ-R ☐ W-PYR-AA-R ☐ W-GLYPH ☐ W-SUC-AA-R					☐ Ice ☐ Other			

Place Preservative Sticker(s) Here
(If Available)

Notes:

US_site 2_1

Iron Bridge WWTF - Little Econ River @
0.13 miles downstream of discharge point

Date: 01/10/2018

Signature: _____

Date: _____

Field Parameters Entered into LIMS: _____ (Initials/Date) Field Parameters QC in LIMS: _____ (Initials/Date)
Date Migrated to STORET: _____ (Initials/Date) Field Sheets Scanned/Saved: _____ (Initials/Date)



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

October 2017

Qualified Data

Location/STORET Station Name: Iron Bridge WWTF - Little Econ River 0.75 mile downstream Date: 01/10/2018
(mm/dd/yyyy)

STORET # US-site 3-1 WBID: _____ Latitude: 28.62010
(Decimal Degrees)

County: Seminole RQ: _____ ORG ID: 21FLCEN Longitude: -81.20892
(Decimal Degrees)

Receiving Body of Water: Econ River Field ID: US-site 3-1

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment			
<u>Mike Linger</u>										☒ Sample Container	☐ Van Dorn	☐ Pole	
										☐ Carboy	☐ Syringe		
<u>Mike Drennan</u>										☐ Dipper	☐ Other		
Water Level: Dry / Low / <u>Normal</u> / Above Normal / Flooded										Meter ID# <u>Boop/Non</u>		Matrix: <u>Fresh</u> / Marine / DI	
Photos: <u>Yes</u> / No		Flow: No Flow / Intestinal / Flowing / NA				Tide: Rising / Falling / Slack / NA				Tide Times: High _____ Low _____			
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°)			
<u>EST</u>	<u>1144</u>	<u>0.3</u>	<u>0.8</u>	<u>8.71</u>	<u>88.1</u>	<u>7.01</u>	<u>0.13</u>	<u>0.815</u>	<u>267</u>	<u>15.94</u>			
CEN													

Biological Samples Collected: None HA SCI RPS Algae ID LVS LVI Other _____										
SBIO ID Numbers:		SBIO-ID:	HA-ID:	RPS-ID:	Macrophyte-ID:	LIMS#:				
Parameter Suite	Parameter Methods				Preservation	Lot#	Expiration	pH Check		
Preserved Nutrients	☐ W-NH3 / ☐ W-NO2NO3 / ☐ W-TKN / ☐ W-TOC / ☐ W-S-A-TP				☐ Ice ☐ H2SO4			☐ <2		
Metals	☐ W-ICPMS ☐ W-ICP				☐ Ice ☐ HNO3			☐ <2		
Filtered Nutrients	☐ W-PO4-F ☐ Field Filtered 0.45 µm Filter				☐ Ice					
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-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-HF183 ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-GFD				☐ Ice					
Tracers	☐ W-SUC-AA-R ☐ W-UHERB-AA ☐ W-AHERB-AA				☐ Ice					
Pesticides	☐ W-PSNP-TQ ☐ W-UHERB-AA ☐ W-AHERB-AA				☐ Ice					
	☐ W-PCL-SQ-R ☐ W-PYR-AA-R ☐ W-GLYPH ☐ W-SUC-AA-R				☐ Other					

Notes:

US_site 3_1
Iron Bridge WWTF - Little Econ River @
0.75 miles downstream of discharge point

Date: 01/10/2018

Signature:

Date:

Field Parameters Entered into LIMS:

Field Parameters QC in LIMS:

Date Migrated to STORET:

Field Sheets Scanned/Saved:

(Initials/Date)

(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 is qualified data on this page.

Meter ID: B00P-NON

RQ:

Project: WWTF-Thera Flu

- 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.

Circle/Fill In: Lab Calibration or Calibration/Verification on Site

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

12/17

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Mike Drennan	12/10/18	805	22.45	8.660	8.68	100.1	57.4	1.06854	☒ F	☒ F
ICV			1	22.43	8.677	8.68	100.1	57.4		☒ F	☒ F
CCV			1530	22.05	8.727	8.73	99.9	56.3	1.06854	☒ F	☒ 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; 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.			805	170831	9/18	1000	1000	☒ F	☒ F
ICV			1	171623	11/18	100	100	☒ F	☒ F
CCV			1530	171623	11/18	100	101	☒ F	☒ 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	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.			805	165674	8/18	7.0	7.00	-41.6	☒ F	☒ F
Calibr.				171629	4/19	4.0	4.00	134.5	☒ F	☒ F
Calibr.				172191	3/19	10.0	10.00	-219.1	☒ F	☒ F
ICV				172191	3/19	10.0	10.00	-218.9	☒ F	☒ F
CCV			1530	174997	7/19	10.0	9.96	-216.4	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 10 177.5, slope from 4 to 7 176.1 (both must be between 165 and 180 mV)

Is meter equipped with depth sensor? Yes / No If yes, list date of last quarterly depth 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:

WWTF Sampling event #1