

Project Title: Estero/Mullock

Location Code: 47A-15GR

Location Coordinates: N26.434991, W-81.810624

Location Description: Estero River Outfitters' Dock off US41

Sample Collection Time: 8:58

Lab ID# AE87899

Sample Collectors: Garrett Kusienski & Bret O'Brien

Date: 5/26/2021

*Nitric Acid added upon return to Lab

**Pre-Preserved with Sodium Thiosulfate by Thermo Scientific

4	Temp (°C)	SpCond (µS/cm)	D.O. (%)	D.O. (mg/L)	pH	Velocity (ft/s)	DFTOSTWS (ft)	Sample Depth (m)	Total Depth (m)
Field Parameters	24.50	14827	28.80	2.29	7.09	0.100	1.90	0.40	0.40
Qualifiers						U			

SAMP = Regular Sample
FB = Field Blank
FCEB = Field Cleaned
Equipment Blank
SWF = Surface Water Fresh
PP = Polypropylene
PE = Polyethylene
CG = Clear Glass
G = Grab
GV = Grab Van Dorn

Bottles	Number	Size	Material	Pre-Preserved	Lab ID#
@CHLORO	1	1L	PE	N/A	AE87899
@NP	1	1L	PE	N/A	AE87899
@NPFIL	1	250mL	PE	N/A	AE87899
@H2SO4	1	250mL	PE	No	AE87899
@HNO3	1	250mL	PE	No*	AE87899
@TOC	1	40mL	CG	Yes***	AE87899
@BACT	2	100mL	PP	Yes**	AE87899

Flow Calculation (if Applicable):

Flow (ft³/s):

Flow MDL:

Flow Qualifier:

Collection Method: G

Sample Type: SAMP

Sample Matrix: SWE

Equipment Used

YSI Data Logger and/or Sonde ID# G

Calibrated: 5/24/2021 (see Field Equipment Calibration Log)

Sampler Pole Name: (if applicable)

Velocity Meter ID# 2B

Distance Measuring Tool ID# 491

0.45µm Filter, 47mm PP Filter Holder, & 60mL Syringe

Filter Lot # R9CA01881 Exp Date: 6/9/2050

30mL FEP Drop Bottle w/Sulfuric Acid (see preservatives)

0.0-3.0 pH Test Paper for pH Verification

Containers of Analyte Free Water for Rinsing and Blank

Signature of Sample Collector(s):

Garrett Kusienski

B. O'Brien

Preservatives	Lot #	Exp. Date
H ₂ SO ₄	3119020	5/21/2022
HNO ₃ *	1119120	1/7/2022
Na ₂ S ₂ O ₃	200221	12/31/2049
TOC H ₂ SO ₄	251220000	3/17/2022

MISC:

Project Title: Estero/Mullock

Location Code: 47A-4GR

Location Coordinates: N26.435017, W-81.810450

Location Description: Private boat ramp for Estero River off Broadway Rd

Sample Collection Time: 9:27

Lab ID# AE87900

Bottles	Number	Size	Material	Pre-Preserved	Lab ID#
@CHLORO	1	1L	PE	N/A	AE87900
@NP	1	1L	PE	N/A	AE87900
@NPFIL	1	250mL	PE	N/A	AE87900
@H2SO4	1	250mL	PE	No	AE87900
@HNO3	1	250mL	PE	No*	AE87900
@TOC	1	40mL	CG	Yes***	AE87900
@BACT	1	100mL	PP	Yes**	AE87900

Sample Collectors: Garrett Kusienski & Bret O'Brien

Date: 5/26/2021

*Nitric Acid added upon return to Lab

**Pre-Preserved with Sodium Thiosulfate by Thermo Scientific

5	Temp (°C)	SpCond (µS/cm)	D.O. (%)	D.O. (mg/L)	pH	Velocity (ft/s)	DFTOSTWS (ft)	Sample Depth (m)	Total Depth (m)	SAMP = Regular Sample	PP = Polypropylene
Field Parameters	25.57	34617	35.10	2.54	7.34	0.100	1.82	0.40	0.70	FB = Field Blank	PE = Polyethylene
Qualifiers						U				FCEB = Field Cleaned	CG = Clear Glass
										Equipment Blank	G = Grab
										SWF = Surface Water Fresh	GV = Grab Van Dorn

Flow Calculation (if Applicable):

Flow (ft³/s):

38 Flow MDL:

38 Flow Qualifier:

U

Collection Method: G

Sample Type: SAMP

Sample Matrix: SWE

Equipment Used

YSI Data Logger and/or Sonde ID# G

Calibrated: 5/24/2021 (see Field Equipment Calibration Log)

Sampler Pole Name: (if applicable)

Velocity Meter ID# 2B

Distance Measuring Tool ID# 491

0.45µm Filter, 47mm PP Filter Holder, & 60mL Syringe

Filter Lot # R9CA01881 Exp Date: 6/9/2050

30mL FEP Drop Bottle w/Sulfuric Acid (see preservatives)

0.0-3.0 pH Test Paper for pH Verification

Containers of Analyte Free Water for Rinsing and Blank

☒ DFTOSTWS taken from end of dock (not lower step)

☒ Samples submerged in ice within 15min.

☒ Samples preserved with Sulfuric Acid acidified in field with

☒ Filtered sample filtered on site

☒ Equipment & Bottles cleaned according to DEP

FC1000 and LCEL Field Sampling Quality Manual

☒ Velocity not detectable and/or is lower than MDL

☐ Acidified samples pH verified in field (quarterly)

Quarterly Months: January, April, July, October

☐ @NP bottle used to fill all other bottles.

Signature of Sample Collector(s):





Preservatives	Lot #	Exp. Date
H ₂ SO ₄	3119020	5/21/2022
HNO ₃ *	1119120	1/7/2022
Na ₂ S ₂ O ₃	200221	12/31/2049
TOC H ₂ SO ₄	251220000	3/17/2022

MISC:

Project Title: Imperial Kehl
Location Code: IMPRGR51
Location Coordinates: N26.343744, W-81.777744
Location Description: Leitner Creek @ Goodwin; downstream side
Sample Collection Time: 8:30
Lab ID# AE87608

Bottles	Number	Size	Material	Pre-Preserved	Lab ID#
@CHLORO	1	1L	PE	N/A	AE87608
@NP	1	1L	PE	N/A	AE87608
@NPFIL	1	250mL	PE	N/A	AE87608
@H2SO4	1	250mL	PE	No	AE87608
@HNO3	1	250mL	PE	No*	AE87608
@TOC	1	40mL	CG	Yes***	AE87608
@BACT	1	100mL	PP	Yes**	AE87608

Sample Collectors: Sierra Strickland & Brooke Hamill

Date: 5/26/2021

*Nitric Acid added upon return to Lab

**Pre-Preserved with Sodium Thiosulfate by Thermo Scientific

3	Temp (°C)	SpCond (µS/cm)	D.O. (%)	D.O. (mg/L)	pH	Velocity (ft/s)	DFTOSTWS (ft)	Sample Depth (m)	Total Depth (m)	SAMP = Regular Sample	PP = Polypropylene
Field Parameters	24.50	6088	18.90	1.54	7.04	0.100	10.28	0.4	0.8	FB = Field Blank	PE = Polyethylene
Qualifiers						U				FCEB = Field Cleaned	CG = Clear Glass
										Equipment Blank	G = Grab
										SWF = Surface Water Fresh	GV = Grab Van Dorn

Flow Calculation (if Applicable):

Flow (ft³/s):

9 Flow MDL

9 Flow Qualifier:

U

Collection Method: G

Sample Type: SAMP

Sample Matrix: SWF

Equipment Used

YSI Data Logger/Sonde # J

Calibrated: 5/26/2021 (see Field Equipment Calibration Log)

Sampler Pole Name: (if applicable)

Velocity Meter # 1C

Distance Measuring Tool ID# Red

0.45µm Filter, 47mm PP Filter Holder, & 60mL Syringe

Filter Lot # R9CA01881 Exp Date: 6/9/2050

30mL FEP Drop Bottle w/Sulfuric Acid (see preservatives)

0.0-3.0 pH Test Paper for pH Verification

Containers of Analyte Free Water for Rinsing and Blank

- ☒ DFTOSTWS taken from middle of bridge
- ☒ Samples submerged in ice within 15min.
- ☒ Samples preserved with Sulfuric Acid acidified in field within 15min.
- ☒ Filtered sample filtered on site
- ☒ Equipment & Bottles cleaned according to DEP FC1000 and LCEL Field Sampling Quality Manual
- ☒ Velocity not detectable and/or is lower than MDL
- ☐ Acidified samples pH verified in field (quarterly)
Quarterly Months: January, April, July, October
- ☐ @NP bottle used to fill all other bottles.

Preservatives	Lot #	Exp. Date
H ₂ SO ₄	3119020	5/21/2022
HNO ₃ *	1119120	1/7/2022
Na ₂ S ₂ O ₃	200221	12/31/2049
TOC H ₂ SO ₄	251220000	3/17/2022

MISC:

Signature of Sample Collector(s):

Brooke Hamill

Sierra Strickland

Project Title: Imperial Kehl
Location Code: IMPRGR41
Location Coordinates: N26.338919, W-81.786250
Location Description: Oak Creek @ Pennsylvania; downstream side
Sample Collection Time: 8:45
Lab ID# AE87609

Bottles	Number	Size	Material	Pre-Preserved	Lab ID#
@CHLORO	1	1L	PE	N/A	AE87609
@NP	1	1L	PE	N/A	AE87609
@NPFIL	1	250mL	PE	N/A	AE87609
@H2SO4	1	250mL	PE	No	AE87609
@HNO3	1	250mL	PE	No*	AE87609
@TOC	1	40mL	CG	Yes***	AE87609
@BACT	2	100mL	PP	Yes**	AE87609

Sample Collectors: Sierra Strickland & Brooke Hamill

Date: 5/26/2021

*Nitric Acid added upon return to Lab

**Pre-Preserved with Sodium Thiosulfate by Thermo Scientific

4	Temp (°C)	SpCond (µS/cm)	D.O. (%)	D.O. (mg/L)	pH	Velocity (ft/s)	DFTOSTWS (ft)	Sample Depth (m)	Total Depth (m)
Field Parameters	25.62	15054	22.50	1.75	7.17	0.100	11.03	0.5	1.0
Qualifiers						U			

SAMP = Regular Sample PP = Polypropylene
FB = Field Blank PE = Polyethylene
FCEB = Field Cleaned CG = Clear Glass
Equipment Blank G = Grab
SWF = Surface Water Fresh GV = Grab Van Dorn

Flow Calculation (if Applicable):

Flow (ft³/s):

13 Flow MDL:

13 Flow Qualifier:

U

Collection Method: G

Sample Type: SAMP

Sample Matrix: SWE

Equipment Used

YSI Data Logger/Sonde #

J

Calibrated: 5/26/2021 (see Field Equipment Calibration Log)

Sampler Pole Name: (if applicable)

Velocity Meter # 1C

Distance Measuring Tool ID# Red

0.45µm Filter, 47mm PP Filter Holder, & 60mL Syringe

Filter Lot # R9CA01881 Exp Date: 6/9/2050

30mL FEP Drop Bottle w/Sulfuric Acid (see preservatives)

0.0-3.0 pH Test Paper for pH Verification

Containers of Analyte Free Water for Rinsing and Blank

- ☒ DFTOSTWS taken from middle of bridge
- ☒ Samples submerged in ice within 15min.
- ☒ Samples preserved with Sulfuric Acid acidified in field within 15min.
- ☒ Filtered sample filtered on site
- ☒ Equipment & Bottles cleaned according to DEP FC1000 and LCEL Field Sampling Quality Manual
- ☒ Velocity not detectable and/or is lower than MDL
- ☐ Acidified samples pH verified in field (quarterly)
Quarterly Months: January, April, July, October
- ☐ @NP bottle used to fill all other bottles.

Preservatives	Lot #	Exp. Date
H ₂ SO ₄	3119020	5/21/2022
HNO ₃ *	1119120	1/7/2022
Na ₂ S ₂ O ₃	200221	12/31/2049
TOC H ₂ SO ₄	251220000	3/17/2022

MISC:

Signature of Sample Collector(s):

Brooke Hamill

Sierra Strickland

Project Title: Imperial Kehl
 Location Code: IMPRGR30
 Location Coordinates: N26.338792, W-81.804903
 Location Description: Imperial River upstream of US 41 @ boat ramp
 Sample Collection Time: 9:03
 Lab ID# AE87610

Bottles	Number	Size	Material	Pre-Preserved	Lab ID#
@CHLORO	1	1L	PE	N/A	AE87610
@NP	1	1L	PE	N/A	AE87610
@NPFIL	1	250mL	PE	N/A	AE87610
@H2SO4	1	250mL	PE	No	AE87610
@HNO3	1	250mL	PE	No*	AE87610
@TOC	1	40mL	CG	Yes***	AE87610
@BACT	1	100mL	PP	Yes**	AE87610

Sample Collectors: Sierra Strickland & Brooke Hamill

Date: 5/26/2021

*Nitric Acid added upon return to Lab

**Pre-Preserved with Sodium Thiosulfate by Thermo Scientific

5	Temp (°C)	SpCond (µS/cm)	D.O. (%)	D.O. (mg/L)	pH	Velocity (ft/s)	DFTOSTWS (ft)	Sample Depth (m)	Total Depth (m)	SAMP = Regular Sample	PP = Polypropylene
Field Parameters	26.80	26087	52.60	3.84	7.34	0.100	2.77	0.5	1.0	FB = Field Blank	PE = Polyethylene
Qualifiers						U				FCEB = Field Cleaned	CG = Clear Glass
										Equipment Blank	G = Grab
										SWF = Surface Water Fresh	GV = Grab Van Dorn

Flow Calculation (if Applicable): Flow (ft³/s): 54 Flow MDL: 54 Flow Qualifier: U

Collection Method: G Sample Type: SAMP Sample Matrix: SWE

Equipment Used

YSI Data Logger/Sonde # J
 Calibrated: 5/26/2021 (see Field Equipment Calibration Log)

Sampler Pole Name: (if applicable)

Velocity Meter # 1C

Distance Measuring Tool ID# Red

0.45µm Filter, 47mm PP Filter Holder, & 60mL Syringe

Filter Lot # R9CA01881 Exp Date: 6/9/2050

30mL FEP Drop Bottle w/Sulfuric Acid (see preservatives)

0.0-3.0 pH Test Paper for pH Verification

Containers of Analyte Free Water for Rinsing and Blank

- ☒ DFTOSTWS taken from end of eastern dock
- ☒ Samples submerged in ice within 15min.
- ☒ Samples preserved with Sulfuric Acid acidified in field within 15min.
- ☒ Filtered sample filtered on site
- ☒ Equipment & Bottles cleaned according to DEP FC1000 and LCEL Field Sampling Quality Manual
- ☒ Velocity not detectable and/or is lower than MDL
- ☐ Acidified samples pH verified in field (quarterly)
 Quarterly Months: January, April, July, October
- ☐ @NP bottle used to fill all other bottles.

Preservatives	Lot #	Exp. Date
H ₂ SO ₄	3119020	5/21/2022
HNO ₃ *	1119120	1/7/2022
Na ₂ S ₂ O ₃	200221	12/31/2049
TOC H ₂ SO ₄	251220000	3/17/2022

MISC:

Signature of Sample Collector(s):

Brooke Hamill

Sierra Strickland

Project Title: 10 Mile Canal

Location Code: 10MIGR10

Location Coordinates: N26.481002, W-81.854534

Location Description: 10 Mile Canal @ Park Rd; dead end in Island Park

Sample Collection Time: 9:00

Lab ID# AE86706

Sample Collectors: Liza Rollins & Garrett Kusienski

Date: 5/20/2021

*Nitric Acid added upon return to Lab

**Pre-Preserved with Sodium Thiosulfate by Thermo Scientific

***Pre-Preserved with Sulfuric Acid

6	Temp (°C)	SpCond (µS/cm)	D.O. (%)	D.O. (mg/L)	pH	Velocity (ft/s)	DFTOSTWS (ft)	Sample Depth (m)	Total Depth (m)	SAMP = Regular Sample FB = Field Blank FCEB = Field Cleaned Equipment Blank SWF = Surface Water Fresh	PP = Polypropylene PE = Polyethylene CG = Clear Glass G = Grab GV = Grab Van Dorn
Field Parameters	25.40	39926	58.70	4.17	7.45	0.556	11.37	0.50	1.00		
Qualifiers											

Flow Calculation (if Applicable):

Flow (ft³/s): 182

Flow MDL: 33 Flow Qualifier:

Collection Method: G Sample Type: SAMP

Sample Matrix: SWE

Equipment Used

YSI Data Logger and/or Sonde ID# G

Calibrated: 5/17/2021 (see Field Equipment Calibration Log)

Sampler Pole Name (if applicable):

Velocity Meter ID# 1A

Distance Measuring Tool ID# Red

0.45µm Filter, 47mm PP Filter Holder, & 60mL Syringe

Filter Lot # R7BA53224 Exp Date: 9/19/2023

30mL FEP Drop Bottle w/Sulfuric Acid (see preservatives)

0.0-3.0 pH Test Paper for pH Verification

Containers of Analyte Free Water for Rinsing and Blank

- ☒ DFTOSTWS taken from end of top wood platform
- ☒ Samples submerged in ice within 15min.
- ☒ Samples preserved with Sulfuric Acid acidified in field within 15min.
- ☒ Filtered sample filtered on site
- ☒ Equipment & Bottles cleaned according to DEP FC1000 and LCEL Field Sampling Quality Manual
- ☐ Velocity not detectable and/or is lower than MDL
- ☐ Acidified samples pH verified in field (quarterly)
Quarterly Months: January, April, July, October
- ☐ @NP bottle used to fill all other bottles.

Preservatives	Lot #	Exp. Date
H ₂ SO ₄	3119020	5/21/2022
HNO ₃ *	1119120	1/7/2022
Na ₂ S ₂ O ₃	200504	12/31/2049
TOC H ₂ SO ₄	251220000	3/17/2022

MISC:

Signature of Sample Collector(s):

Liza Rollins

Garrett Kusienski