Project Title: Imperial Kehl
Location Code: IMPRGR51
Location Coordinates: N26.343744, W-81.777744
Location Description: Leitner Creek @ Goodwin; downstream side
Sample Collection Time: 9:55
Lab ID# AE84066

Bottles	Number	Size	Material	Pre-Preserved	Lab ID#
@CHLORO	1	1L	PE	N/A	AE84066
@NP	1	1L	PE	N/A	AE84066
@NPFIL	1	250mL	PE	N/A	AE84066
@H2SO4	1	250mL	PE	No	AE84066
@HNO3	1	250mL	PE	No*	AE84066
@TOC	1	40mL	CG	Yes***	AE84066
@BACT	1	100mL	PP	Yes**	AE84066

Sample Collectors: Liza Rollins & Sierra Strickland
Date: 4/21/2021

*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)
Field Parameters	25.11	3000	36.80	3.01	7.14	0.100	9.77	0.5	1.0
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

Flow Calculation (if Applicable): Flow (ft^3/s): 11 Flow MDL 11 Flow Qualifier: U

Preservatives	Lot #	Exp. Date
H_2SO_4	3119020	5/21/2022
HNO_3*	1119120	1/7/2022
$Na_2S_2O_3$	200118	12/31/2049
TOC H_2SO_4	25122000	3/17/2022

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

Equipment Used

YSI Data Logger/Sonde # J
Calibrated: 4/19/2021 (see Field Equipment Calibration Log)
Sampler Pole Name: (if applicable)
Velocity Meter # 1B
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 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.

MISC:

Signature of Sample Collector(s): Liza Rollins

Project Title: Imperial Kehl
Location Code: IMPRGR41
Location Coordinates: N26.338919, W-81.786250
Location Description: Oak Creek @ Pennsylvania; downstream side
Sample Collection Time: 10:19
Lab ID# AE84067

Bottles	Number	Size	Material	Pre-Preserved	Lab ID#
@CHLORO	1	1L	PE	N/A	AE84067
@NP	1	1L	PE	N/A	AE84067
@NPFIL	1	250mL	PE	N/A	AE84067
@H2SO4	1	250mL	PE	No	AE84067
@HNO3	1	250mL	PE	No*	AE84067
@TOC	1	40mL	CG	Yes***	AE84067
@BACT	2	100mL	PP	Yes**	AE84067

Sample Collectors: Liza Rollins & Sierra Strickland
Date: 4/21/2021

*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	25.49	5735	34.90	2.81	7.31	0.100	10.83	0.5	1.4
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

Flow Calculation (if Applicable): Flow (ft^3/s): 14 Flow MDL: 14 Flow Qualifier: U

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

Preservatives	Lot #	Exp. Date
H_2SO_4	3119020	5/21/2022
HNO_3*	1119120	1/7/2022
$Na_2S_2O_3$	200118	12/31/2049
TOC H_2SO_4	25122000	3/17/2022

Equipment Used

YSI Data Logger/Sonde # J
Calibrated: 4/19/2021 (see Field Equipment Calibration Log)
Sampler Pole Name: (if applicable)
Velocity Meter # 1B
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 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.

MISC:

Signature of Sample Collector(s): Liza Rollins

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: 10:43
Lab ID# AE84068

Bottles	Number	Size	Material	Pre-Preserved	Lab ID#
@CHLORO	1	1L	PE	N/A	AE84068
@NP	1	1L	PE	N/A	AE84068
@NPFIL	1	250mL	PE	N/A	AE84068
@H2SO4	1	250mL	PE	No	AE84068
@HNO3	1	250mL	PE	No*	AE84068
@TOC	1	40mL	CG	Yes***	AE84068
@BACT	1	100mL	PP	Yes**	AE84068

Sample Collectors: Liza Rollins & Sierra Strickland
Date: 4/21/2021

*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)
Field Parameters	26.86	20872	34.50	2.57	7.33	0.100	2.13	0.5	1.5
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

Flow Calculation (if Applicable): Flow (ft^3/s): 63 Flow MDL: 63 Flow Qualifier: U

Preservatives	Lot #	Exp. Date
H_2SO_4	3119020	5/21/2022
HNO_3*	1119120	1/7/2022
$Na_2S_2O_3$	200118	12/31/2049
TOC H_2SO_4	25122000	3/17/2022

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

Equipment Used

YSI Data Logger/Sonde # J
Calibrated: 4/19/2021 (see Field Equipment Calibration Log)
Sampler Pole Name: (if applicable)
Velocity Meter # 1B
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 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.

MISC: floculant on surface

Signature of Sample Collector(s): Liza Rollins

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: 9:20
Lab ID# AE84109

Bottles	Number	Size	Material	Pre-Preserved	Lab ID#
@CHLORO	1	1L	PE	N/A	AE84109
@NP	1	1L	PE	N/A	AE84109
@NPFIL	1	250mL	PE	N/A	AE84109
@H2SO4	1	250mL	PE	No	AE84109
@HNO3	1	250mL	PE	No*	AE84109
@TOC	1	40mL	CG	Yes***	AE84109
@BACT	2	100mL	PP	Yes**	AE84109

Sample Collectors: Garrett Kusienski & Bret O'Brien
Date: 4/21/2021

*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	24.91	7362	30.20	2.45	7.03	0.100	1.12	0.30	0.60
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

~~Flow Calculation (if Applicable):~~ ~~Flow (ft^3/s):~~ _____ ~~Flow MDL:~~ _____ ~~Flow Qualifier:~~ _____

Preservatives	Lot #	Exp. Date
H_2SO_4	3119020	5/21/2022
HNO_3*	1119120	1/7/2022
$Na_2S_2O_3$	200118	12/31/2049
TOC H_2SO_4	25122000	3/17/2022

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

Equipment Used

YSI Data Logger and/or Sonde ID# G

Calibrated: 4/19/2021 (see Field Equipment Calibration Log)

Sampler Pole Name: (if applicable)

Velocity Meter ID# 3A

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

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

MISC:

Signature of Sample Collector(s): Garrett Kusienski

Bret O'Brien

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: 9:39
Lab ID# AE84110

Bottles	Number	Size	Material	Pre-Preserved	Lab ID#
@CHLORO	1	1L	PE	N/A	AE84110
@NP	1	1L	PE	N/A	AE84110
@NPFIL	1	250mL	PE	N/A	AE84110
@H2SO4	1	250mL	PE	No	AE84110
@HNO3	1	250mL	PE	No*	AE84110
@TOC	1	40mL	CG	Yes***	AE84110
@BACT	1	100mL	PP	Yes**	AE84110

Sample Collectors: Garrett Kusienski & Bret O'Brien
Date: 4/21/2021

*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)
Field Parameters	25.80	21401	23.20	1.76	7.10	0.100	2.36	0.40	0.80
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

Flow Calculation (if Applicable): Flow (ft^3/s): 34 Flow MDL: 34 Flow Qualifier: U

Preservatives	Lot #	Exp. Date
H_2SO_4	3119020	5/21/2022
HNO_3*	1119120	1/7/2022
$Na_2S_2O_3$	200118	12/31/2049
TOC H_2SO_4	25122000	3/17/2022

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

Equipment Used

YSI Data Logger and/or Sonde ID# G

Calibrated: 4/19/2021 (see Field Equipment Calibration Log)

Sampler Pole Name: (if applicable)

Velocity Meter ID# 3A

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 dock (not lower step)
- ☑ Samples submerged in ice within 15min.
- ☑ Samples preserved with Sulfuric Acid acidified in field wit
- ☑ 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.

MISC:

Signature of Sample Collector(s):