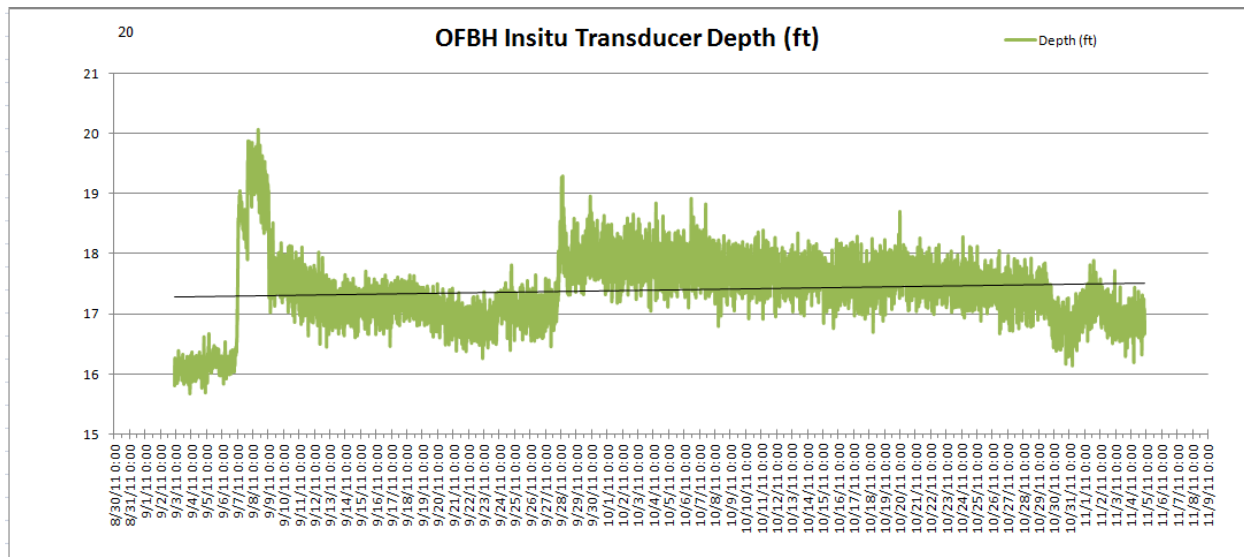
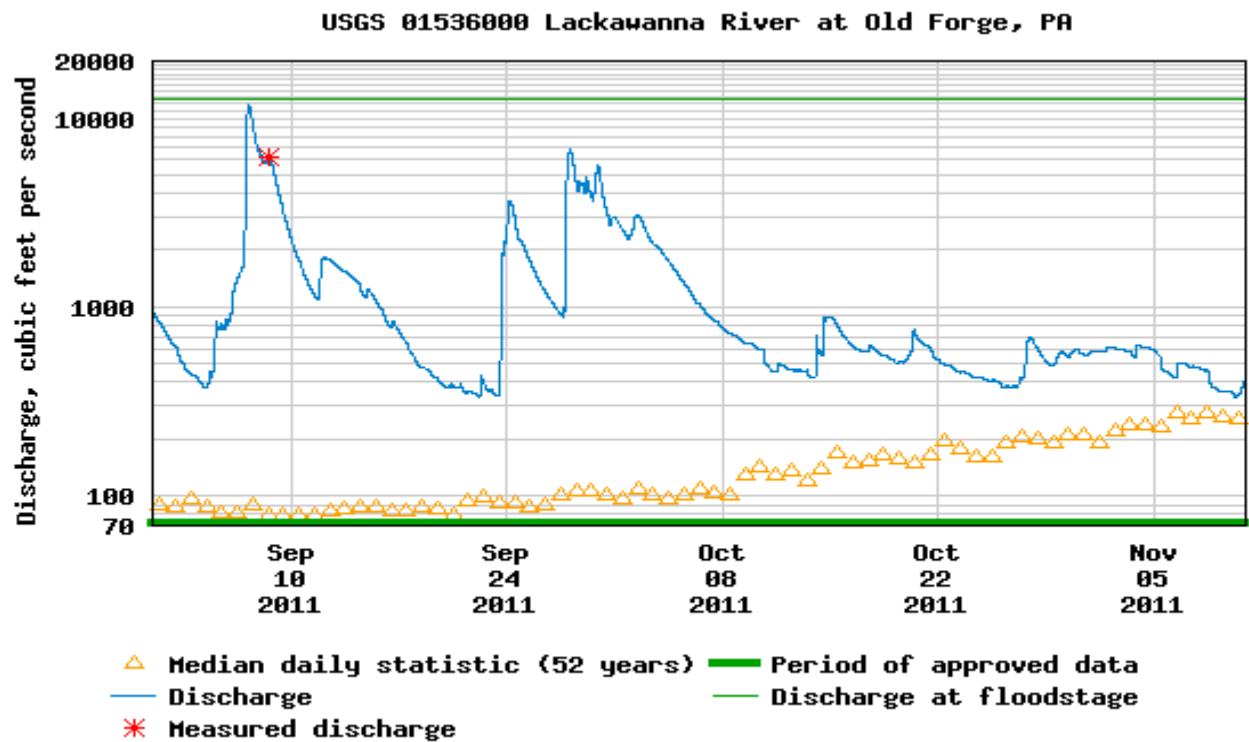


Appendix C

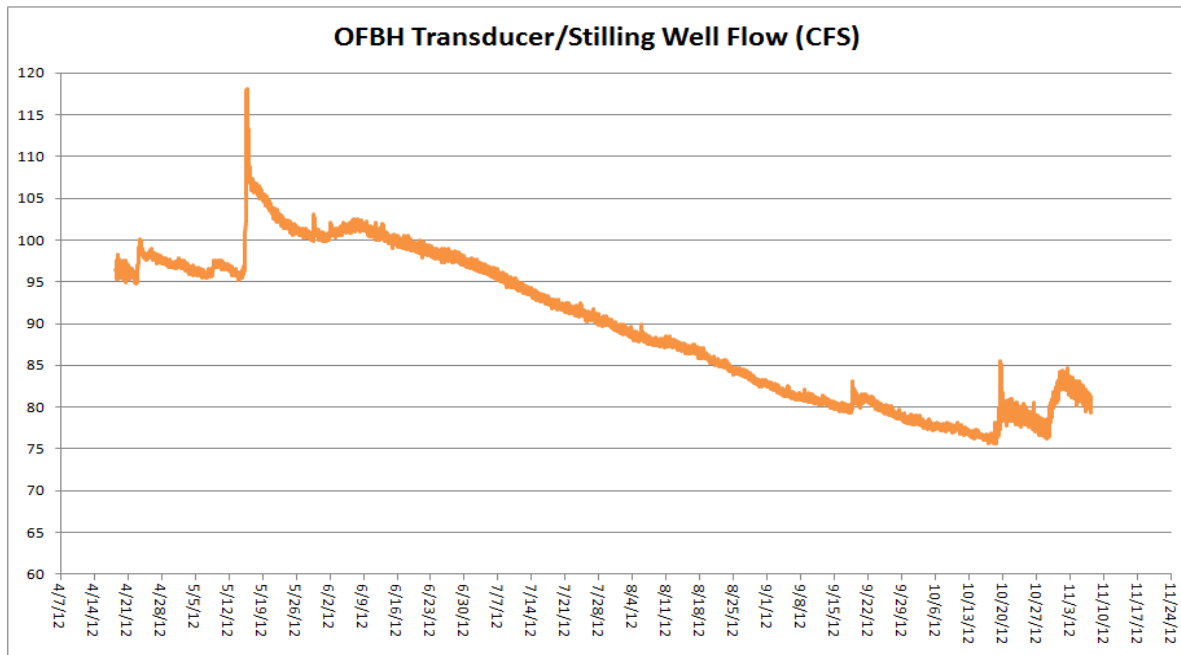


In-Situ Inc. Transducer installation in Old Forge Borehole at 20 ft showing depth of water from 9/11 to 11/11

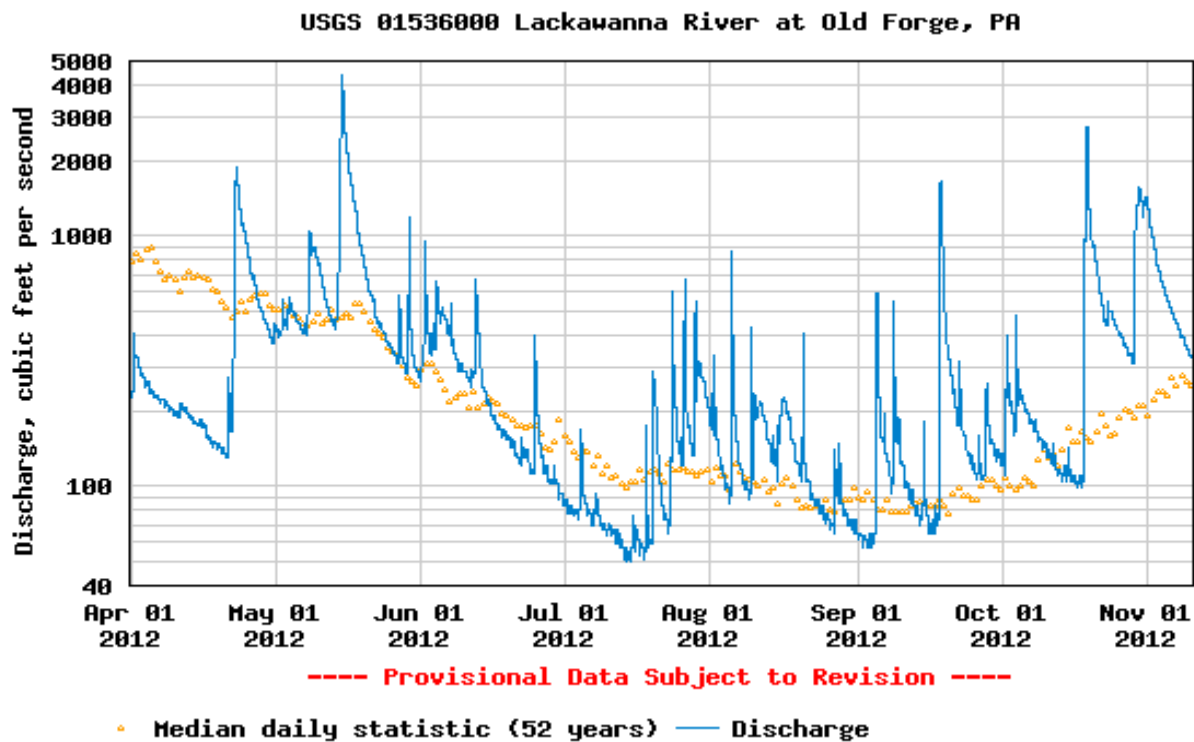


Graph courtesy of the U.S. Geological Survey

USGS Lackawanna River Gauge showing showing cubic feet per second discharge of water from 9/11 to 11/11

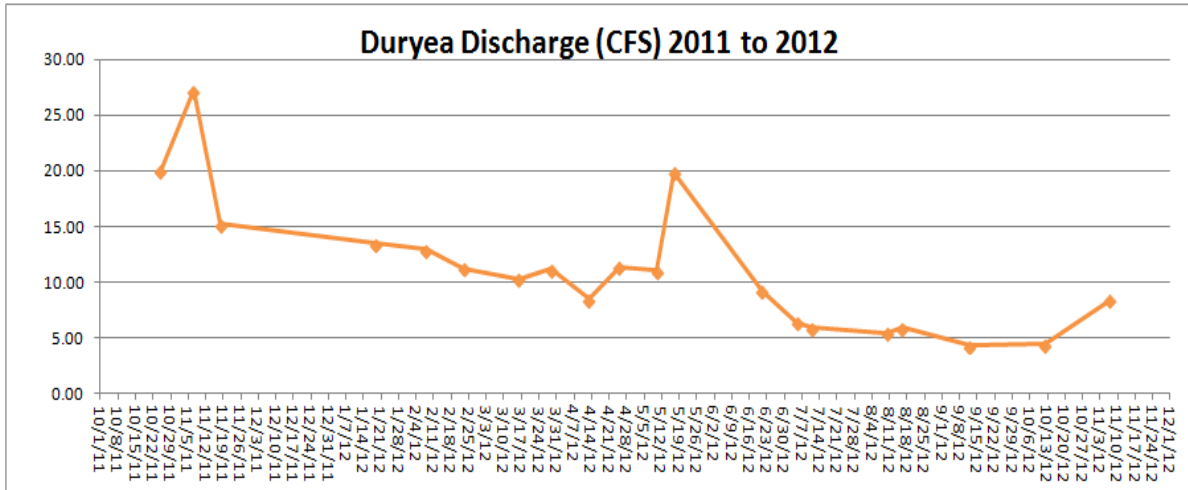


In-Situ Inc. Transducer installation in Old Forge Borehole Rock Cut Channel and Stilling well showing derived flow in cubic feet per second calculated using depth rating curve from 4/12 to 11/12.

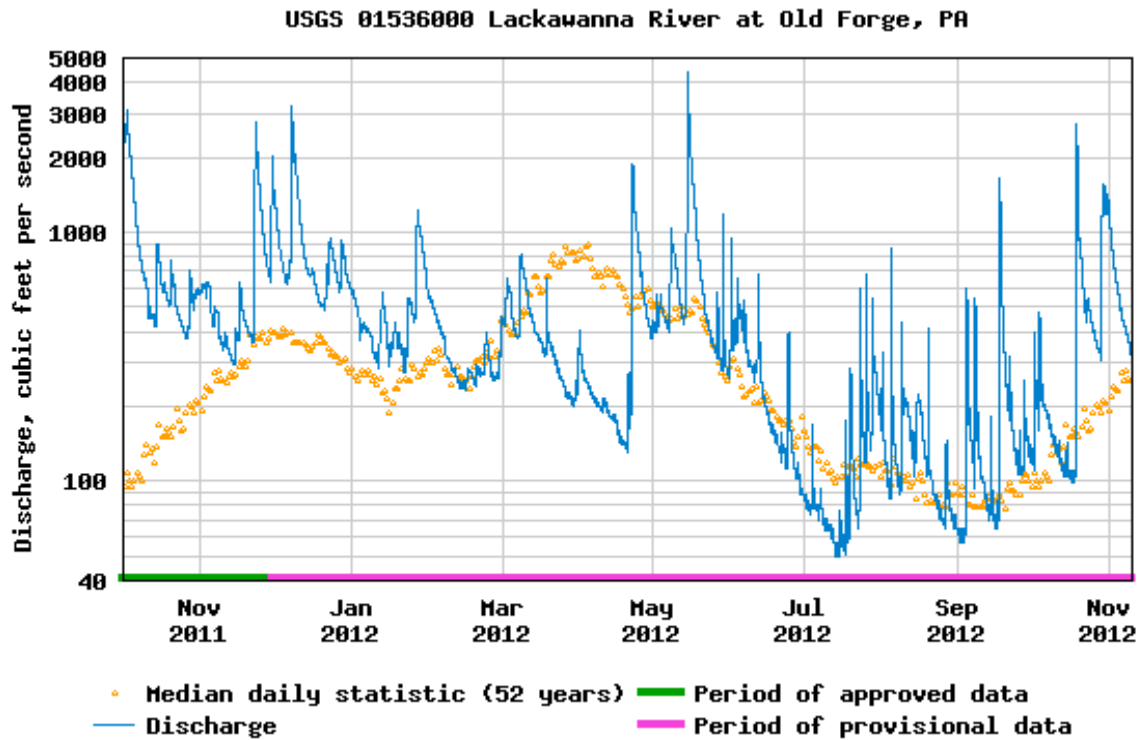


Graph courtesy of the U.S. Geological Survey

USGS Lackawanna River Gauge showing showing cubic feet per second discharge of water from 4/12 to 11/12



Duryea Breach Discharge Field Flow Data recorded in cubic feet per second from 10/11 to 11/12



Graph courtesy of the U.S. Geological Survey

USGS Lackawanna River Gauge showing showing cubic feet per second discharge of water from 10/11 to 11/12

Old Forge Water Quality and Flow Data

Mine Description	Sample Date	Discharge	Water Temp.	Spec. Cond.	Field pH	Lab pH	DO	SO ₄	Tot. Fe	Mn	Dis. Mn	Al	Alk.	Acid.	TSS	TDS	Data Source 1	Data Source 2
		ft ³ /sec	°C	uS/cm	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l		
Old Forge Borehole	4/24/1975	97.00	16.00	1470.00		5.60		780.00	40.00	5.60	7.90	0.12	27.00	210.00			USGS	Water Resources Investigative Report 83-4274
Old Forge Borehole	3/1/1983					5.95		556.00	37.00				87.00	3.00			PADEP	Lackawanna River TMDL
Old Forge Borehole	4/4/1983					5.92		542.00	45.00				83.00	2.00			PADEP	Lackawanna River TMDL
Old Forge Borehole	5/2/1983					5.92		505.00	31.20				76.00	0.00			PADEP	Lackawanna River TMDL
Old Forge Borehole	6/6/1983					5.91		507.00	32.40				80.00	3.00			PADEP	Lackawanna River TMDL
Old Forge Borehole	7/11/1983					5.78		430.00	31.40				107.00	1.00			PADEP	Lackawanna River TMDL
Old Forge Borehole	8/8/1983					5.94		526.00	24.30				81.00	0.00			PADEP	Lackawanna River TMDL
Old Forge Borehole	9/6/1983					5.98		473.00	31.10				87.00	0.00			PADEP	Lackawanna River TMDL
Old Forge Borehole	10/4/1983					5.76		541.00	30.80				108.00	0.00			PADEP	Lackawanna River TMDL
Old Forge Borehole	11/1/1983					5.91		427.00	32.60				82.00	0.00			PADEP	Lackawanna River TMDL
Old Forge Borehole	12/5/1983					5.96		515.00	34.00				87.00	1.00			PADEP	Lackawanna River TMDL
Old Forge Borehole	1/3/1984					6.00		560.00	32.50				87.00	0.00			PADEP	Lackawanna River TMDL
Old Forge Borehole	2/1/1984					5.92		365.00	33.00				86.00	5.00			PADEP	Lackawanna River TMDL
Old Forge Borehole	3/6/1984					5.97		501.00	30.00				84.00	1.00			PADEP	Lackawanna River TMDL
Old Forge Borehole	4/3/1984					5.91		478.00	32.00				80.00	0.00			PADEP	Lackawanna River TMDL
Old Forge Borehole	5/7/1984					5.93		438.00	28.20				73.00	0.00			PADEP	Lackawanna River TMDL
Old Forge Borehole	6/4/1984					5.99		497.00	24.00				82.00	0.00			PADEP	Lackawanna River TMDL
Old Forge Borehole	7/2/1984					5.93		461.00	19.40				78.00	0.00			PADEP	Lackawanna River TMDL
Old Forge Borehole	8/2/1984					6.01		441.00	22.80				93.00	0.00			PADEP	Lackawanna River TMDL
Old Forge Borehole	9/4/1984					6.02		471.00	24.60				91.00	0.00			PADEP	Lackawanna River TMDL
Old Forge Borehole	10/2/1984					6.00		630.00	28.00				91.00	0.00			PADEP	Lackawanna River TMDL
Old Forge Borehole	11/2/1984					6.06		633.00	27.50				91.00	0.00			PADEP	Lackawanna River TMDL
Old Forge Borehole	12/5/1984					6.01		535.00	30.80				92.00	0.00			PADEP	Lackawanna River TMDL
Old Forge Borehole	1/3/1985					5.96		620.00	33.00				102.00	0.00			PADEP	Lackawanna River TMDL
Old Forge Borehole	2/4/1985					5.89		573.00	32.40				14.00	0.00			PADEP	Lackawanna River TMDL
Old Forge Borehole	3/4/1985					5.94		603.00	34.00				89.00	0.00			PADEP	Lackawanna River TMDL
Old Forge Borehole	4/2/1985					6.05		588.00	35.40				87.00	0.00			PADEP	Lackawanna River TMDL
Old Forge Borehole	5/2/1985					5.89		556.00	32.20				85.00	0.00			PADEP	Lackawanna River TMDL
Old Forge Borehole	6/4/1985					5.96		513.00	31.00				82.00	0.00			PADEP	Lackawanna River TMDL
Old Forge Borehole	7/1/1985					5.93		555.00	28.00				89.00	2.00			PADEP	Lackawanna River TMDL
Old Forge Borehole	8/2/1985					5.84		511.00	30.60				79.00	0.00			PADEP	Lackawanna River TMDL
Old Forge Borehole	9/9/1985					6.03		549.00	31.40				85.00	0.00			PADEP	Lackawanna River TMDL
Old Forge Borehole	10/7/1985					6.05		469.00	30.80				84.00	1.00			PADEP	Lackawanna River TMDL
Old Forge Borehole	11/1/1985					5.99		518.00	28.00				80.00	12.00			PADEP	Lackawanna River TMDL
Old Forge Borehole	12/4/1985					5.97		345.00	28.40				84.00	0.00			PADEP	Lackawanna River TMDL
Old Forge Borehole	1/7/1986					5.84		404.00	28.20				83.00	0.00			PADEP	Lackawanna River TMDL
Old Forge Borehole	2/5/1986					5.96		497.00					8.00	0.00			PADEP	Lackawanna River TMDL
Old Forge Borehole	10/19/1988	61.00	12.50	1000.00	6.00	6.30	1.80	479.00	32.20	3.86		0.70	102.00	0.00			PADEP	Lackawanna River TMDL
Old Forge Borehole	10/29/1991	68.00	14.30	1050.00		6.40	0.80	420.00	25.00	3.20			110.00	212.00			USGS	Water Resources Investigative Report 95-4243
Old Forge Borehole	11/3/1999	77.81				6.10		400.00	18.00				186.00	9.00			PADEP	Lackawanna River TMDL
Old Forge Borehole	10/25/2011	84.75	13.50	1070.00	6.39	6.80	4.90	252.00	13.50	1.72		0.05	104.00	-78.00	5.00		SRBC	Old Forge Borehole Flow Monitoring
Old Forge Borehole	11/18/2011	78.90															SRBC	Old Forge Borehole Flow Monitoring
Old Forge Borehole	2/23/2012			1080.00	6.30	6.50		290.00	14.27	1.88		0.05	89.00	-54.00	5.00	702.00	SRBC	Old Forge Borehole Flow Monitoring
Old Forge Borehole	3/8/2012	120.00		1080.00	6.50	6.40		309.00	15.53	2.03		0.05	106.00	-65.00	10.00	739.00	EPCAMR	Old Forge Borehole Flow Monitoring
Old Forge Borehole	3/16/2012	101.00															EPCAMR	Old Forge Borehole Flow Monitoring
Old Forge Borehole	3/29/2012	105.00															EPCAMR	Old Forge Borehole Flow Monitoring
Old Forge Borehole	4/10/2012	99.00															EPCAMR	Old Forge Borehole Flow Monitoring
Old Forge Borehole	4/25/2012	85.00															EPCAMR	Old Forge Borehole Flow Monitoring
Old Forge Borehole	5/10/2012	93.00															EPCAMR	Old Forge Borehole Flow Monitoring
Old Forge Borehole	5/18/2012	107.00	16.20	1090.00	6.41	6.60	2.71	317.00	16.24	1.94		0.05	99.00	-80.00	5.00	762.00	SRBC	Old Forge Borehole Flow Monitoring
Old Forge Borehole	6/21/2012	94.00															EPCAMR	Old Forge Borehole Flow Monitoring
Old Forge Borehole	7/5/2012	102.00															EPCAMR	Old Forge Borehole Flow Monitoring
Old Forge Borehole	7/11/2012	94.00															EPCAMR	Old Forge Borehole Flow Monitoring
Old Forge Borehole	8/10/2012	88.00															EPCAMR	Old Forge Borehole Flow Monitoring
Old Forge Borehole	8/17/2012	86.00		1040.00	6.50	6.40		298.00	16.36	1.94		0.00	105.00	-72.00	5.00	751.00	SRBC	Old Forge Borehole Flow Monitoring
Old Forge Borehole	9/12/2012	81.00															EPCAMR	Old Forge Borehole Flow Monitoring
Old Forge Borehole	10/12/2012	77.00															EPCAMR	Old Forge Borehole Flow Monitoring

Red indicates a high value, Yellow indicates a low value

Duryea Breach Water Quality and Flow Data

Mine Description	Sample Date	Discharge	Water Temp.	Spec. Cond.	Field pH	Lab pH	DO	SO ₄	Fe	Ferrous Fe	Dis. Fe	Mn	Dis. Mn	Al	Dis. Al	Alk.	Acid.	TSS	TDS	Data Source 1	Data Source 2
		ft ³ /sec	°C	uS/cm	SU	SU	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l		
Duryea Breach	4/17/1975	34.00	15.50	1400.00		5.70		700.00	48.00		48.00	7.30	7.30	0.40		72.00	233.00			USGS	Water Resources Investigative Report 83-4274
Duryea Breach	3/1/1983	21.21				5.95		399.00	43.50							89.00	5.00			PADEP	Lackawanna River TMDL
Duryea Breach	4/4/1983	24.13				5.94		345.00	48.00							86.00	3.00			PADEP	Lackawanna River TMDL
Duryea Breach	5/2/1983	61.53				5.91		389.00	37.20							77.00	6.00			PADEP	Lackawanna River TMDL
Duryea Breach	6/6/1983	33.23				5.93		508.00	39.00							86.00	4.00			PADEP	Lackawanna River TMDL
Duryea Breach	7/11/1983	27.98				5.84		356.00	40.70							86.00	9.00			PADEP	Lackawanna River TMDL
Duryea Breach	8/8/1983	24.63				5.95		530.00	31.60							86.00	1.00			PADEP	Lackawanna River TMDL
Duryea Breach	9/6/1983	22.45				6.02		481.00	36.20							89.00	0.00			PADEP	Lackawanna River TMDL
Duryea Breach	10/4/1983	20.49				5.83		425.00	39.00							83.00	2.00			PADEP	Lackawanna River TMDL
Duryea Breach	11/1/1983	20.16				5.96		456.00	38.00							89.00	0.00			PADEP	Lackawanna River TMDL
Duryea Breach	12/5/1983	22.44				5.96		489.00	40.50							89.00	2.00			PADEP	Lackawanna River TMDL
Duryea Breach	1/3/1984	29.48				6.00		535.00	40.00							86.00	8.00			PADEP	Lackawanna River TMDL
Duryea Breach	2/1/1984	23.44				6.02		473.00	40.00							85.00	3.00			PADEP	Lackawanna River TMDL
Duryea Breach	3/6/1984	29.41				5.92		451.00	37.50							81.00	5.00			PADEP	Lackawanna River TMDL
Duryea Breach	4/3/1984	30.55				5.90		453.00	38.60							82.00	5.00			PADEP	Lackawanna River TMDL
Duryea Breach	5/7/1984	40.50				5.92		419.00	36.40							76.00	2.00			PADEP	Lackawanna River TMDL
Duryea Breach	6/4/1984	58.18				5.95		432.00	33.00							75.00	5.00			PADEP	Lackawanna River TMDL
Duryea Breach	7/2/1984	56.78				5.90		474.00	34.00							87.00	0.00			PADEP	Lackawanna River TMDL
Duryea Breach	8/2/1984	34.32				5.97		441.00	32.00							86.00	0.00			PADEP	Lackawanna River TMDL
Duryea Breach	9/4/1984	28.51				6.03		453.00	29.00							85.00	0.00			PADEP	Lackawanna River TMDL
Duryea Breach	10/2/1984	23.61				6.00		476.00	35.80							87.00	0.00			PADEP	Lackawanna River TMDL
Duryea Breach	11/2/1984	21.76				6.08		504.00	36.00							87.00	0.00			PADEP	Lackawanna River TMDL
Duryea Breach	12/5/1984	21.27				6.01		457.00	35.00							90.00	0.00			PADEP	Lackawanna River TMDL
Duryea Breach	1/3/1985	23.64				5.99		492.00	39.00							89.00	0.00			PADEP	Lackawanna River TMDL
Duryea Breach	2/4/1985	20.84				5.94		516.00	37.60							87.00	0.00			PADEP	Lackawanna River TMDL
Duryea Breach	3/4/1985	23.08				5.94		526.00	38.00							89.00	0.00			PADEP	Lackawanna River TMDL
Duryea Breach	4/2/1985	24.39				6.08		514.00	39.50							89.00	1.00			PADEP	Lackawanna River TMDL
Duryea Breach	5/2/1985	22.51				5.94		498.00	37.00							89.00	0.00			PADEP	Lackawanna River TMDL
Duryea Breach	6/4/1985	28.18				5.99		517.00	36.80							86.00	2.00			PADEP	Lackawanna River TMDL
Duryea Breach	7/1/1985	23.33				5.94		532.00	36.00							89.00	6.00			PADEP	Lackawanna River TMDL
Duryea Breach	8/2/1985	24.43				5.83		517.00	39.00							80.00	0.00			PADEP	Lackawanna River TMDL
Duryea Breach	9/9/1985	20.79				6.05		517.00	35.60							89.00	0.00			PADEP	Lackawanna River TMDL
Duryea Breach	10/7/1985	35.30				6.02		447.00	38.00							82.00	2.00			PADEP	Lackawanna River TMDL
Duryea Breach	11/1/1985	26.00				5.95		464.00	35.20							90.00	2.00			PADEP	Lackawanna River TMDL
Duryea Breach	12/4/1985	37.21				5.88		446.00	32.50							80.00	3.00			PADEP	Lackawanna River TMDL
Duryea Breach	1/7/1986	28.57				5.85		463.00	38.00							87.00	0.00			PADEP	Lackawanna River TMDL
Duryea Breach	2/5/1986	30.98				5.96		485.00								86.00	2.00			PADEP	Lackawanna River TMDL
Duryea Breach	10/19/1988	18.80	15.00	950.00	4.40	6.40	1.00	431.00	33.20		4.19		0.10			94.00	0.00			PADEP	Lackawanna River TMDL
Duryea Breach	10/30/1991	5.60	13.00	1020.00		6.50	5.50	310.00	26.00		3.40					109.00	127.00			USGS	Water Resources Investigative Report 95-4243
Duryea Breach	11/3/1999	2.50				5.90		400.00	20.00							134.00	9.00			PADEP	Lackawanna River TMDL
Duryea Breach	7/7/2011	22.44																		LRCA	Duryea Flow Analysis
Duryea Breach	7/22/2011	15.18																		LRCA	Duryea Flow Analysis
Duryea Breach	7/22/2011	22.28																		LRCA	Duryea Flow Analysis
Duryea Breach	8/12/2011	10.86																		LRCA	Duryea Flow Analysis
Duryea Breach	9/2/2011	16.50																		LRCA	Duryea Flow Analysis
Duryea Breach	10/25/2011	20.00	13.70	955.00	6.52	6.70	4.70	143.00	10.60		2.27		0.10			88.00	-72.00	28.00		SRBC	Duryea Breach Flow Analysis
Duryea Breach	11/7/2011	27.24																		LRCA	Duryea Flow Analysis
Duryea Breach	11/18/2011	15.24																		SRBC	Duryea Breach Flow Analysis
Duryea Breach	1/19/2012	13.46																		EPCAMR	Duryea Breach Flow Analysis
Duryea Breach	2/8/2012	12.92																		SRBC	Duryea Breach Flow Analysis
Duryea Breach	2/23/2012	11.26	13.00	933.00	5.92	6.40	3.65	255.00	20.25		2.24		0.14			79.00	-39.00	8.00	573.00	SRBC	Duryea Breach Flow Analysis
Duryea Breach	3/16/2012	10.30																		EPCAMR	Duryea Breach Flow Analysis
Duryea Breach	3/29/2012	11.17																		EPCAMR	Duryea Breach Flow Analysis
Duryea Breach	4/13/2012	8.45																		EPCAMR	Duryea Breach Flow Analysis
Duryea Breach	4/25/2012	11.41																		EPCAMR	Duryea Breach Flow Analysis
Duryea Breach	5/10/2012	11.03																		EPCAMR	Duryea Breach Flow Analysis
Duryea Breach	5/17/2012	19.85		938.00	5.83	6.60	2.44	277.00	20.53		2.24		0.12			91.00	-68.00	5.00	762.00	SRBC	Duryea Breach Flow Analysis
Duryea Breach	6/21/2012	9.24																		EPCAMR	Duryea Breach Flow Analysis
Duryea Breach	7/5/2012	6.35																		EPCAMR	Duryea Breach Flow Analysis
Duryea Breach	7/11/2012	5.94																		EPCAMR	Duryea Breach Flow Analysis
Duryea Breach	8/10/2012	5.48																		EPCAMR	Duryea Breach Flow Analysis
Duryea Breach	8/16/2012	5.90		931.00	6.50	6.40		287.00	23.21		2.45		0.00			97.00	-72.00	0.00	676.00	SRBC	Duryea Breach Flow Analysis
Duryea Breach	9/12/2012	4.31																		EPCAMR	Duryea Breach Flow Analysis
Duryea Breach	10/12/2012	4.42																		EPCAMR	Duryea Breach Flow Analysis
Duryea Breach	11/7/2012	8.42																		EPCAMR	Duryea Breach Flow Analysis

Red indicates a high value, Yellow indicates a low value and Thick Border Boxes around flow indicate when OFB is 90+ CFS