



## Water-Data Report 2009

**01443000 DELAWARE RIVER AT PORTLAND, PA**

## DELAWARE RIVER BASIN

LOCATION.--Lat 40°55'26", long 75°05'46" referenced to North American Datum of 1927, Portland Borough, Northampton County, PA, Hydrologic Unit 02040105, at footbridge connecting Portland, PA and Columbia, NJ, 0.5 mi upstream from Paulins Kill, and at river mile 207.5.

DRAINAGE AREA.--4,165 mi<sup>2</sup>.

**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 1976 to May 2009 (discontinued).

REMARKS.--Cooperative Network Site Descriptor: Delaware River Main Stem, NJ Department of Environmental Protection Watershed Management Area 1.

COOPERATION.--Physical measurements and samples for laboratory analysis were collected in cooperation with the NJ Department of Environmental Protection. Determinations of dissolved ammonia, dissolved orthophosphate, and suspended residue were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory.

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 1 of 3

[Remark codes: &lt;, less than; E, estimated.]

Date	Time	Baro-metric pressure, air, mm Hg (00025)	Temper-ature, wat r, deg C (00020)	UV absorb-ance, 254 nm, wat flt /cm (50624)	UV absorb-ance, 280 nm, wat flt /cm (61726)	Instan-taneous dis-charge, ft <sup>3</sup> /s (00061)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of sat-uration (00301)	pH, water, unfltrd field, std units (00400)	Specif-ic conduc-tance, wat unf 25 degC μS/cm @ (00095)	Turbidity, white light, 90+/-30 det ang NTRU (63676)	Dis-solved solids dried @ 180degC wat flt mg/L (70300)
Nov 06...	1100	753	17.0	.103	.078	7,420	11.4	101	7.0	89	9.5	2.2
Feb 02...	1140	750	9.0	.051	.038	6,040	14.3	100	7.3	108	.3	1.3
May 06...	1100	750	18.0	.057	.044	3,810	9.9	98	7.1	122	13.8	1.5

## 01443000 DELAWARE RIVER AT PORTLAND, PA—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 2 of 3

[Remark codes: &lt;, less than; E, estimated.]

Date	Dis-		Sus-		Magnes-		Potas-		ANC,		Total		Inor-		
	solved	solids,	sus-	pended	Calcium	ium,	Magnes-	ium,	Sodium,	wat unf	fixed	carbon,	Chlor-	Fluor-	Inor-
	sum of	consti-	Hard-	solids,	water,	water,	water,	water,	water,	wat unf	end pt,	suspnd	total,	ide,	ganic
	constituents,	water,	water,	unfltrd	filtrd,	filtrd,	filtrd,	filtrd,	filtrd,				water,	water,	carbon,
	mg/L	mg/L as	CaCO <sub>3</sub>	(00900)	mg/L	(00530)	mg/L	(00915)	mg/L	CaCO <sub>3</sub>	mg/L as	CaCO <sub>3</sub>	mg/L	(00940)	mg/L
	(70301)				(00925)		(00935)		(00930)	(90410)	(00694)	(006940)	(00950)	(00688)	SiO <sub>2</sub>
															(00955)
Nov 06...	E49	22	5	6.69	1.32	.72	7.21	16	.3	12.4	<.08	<.04	3.1		
Feb 02...	56	27	11	8.20	1.56	.72	7.24	19	.2	15.0	<.08	<.04	2.8		
May 06...	62	31	2	9.26	1.81	.70	9.88	21	.5	17.3	<.08	<.04	1.5		

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 3 of 3

[Remark codes: &lt;, less than; E, estimated.]

Date	Ammonia		Nitrate		Ortho-		Partic-		Phos-		Phos-		Total		Organic		
	+ org-N,	Ammonia	nitrite	water,	water,	water,	water,	ulate	nitro-	phorus,	water,	phorus,	water,	nitro-	nitro-	carbon,	water,
	Sulfate	water,	Ammonia	water,	water,	water,	water,	phosphate,	water,	water,	water,	water,	water,	gen,	gen,	suspnd	water,
	water,	filtrd,	water,	filtrd,	filtrd,	filtrd,	filtrd,	water,	filtrd,	water,	filtrd,	water,	filtrd,	water,	water,	total,	water,
	mg/L	mg/L as N	mg/L as P	mg/L as P	mg/L as P	mg/L as P	mg/L as P	mg/L as P	mg/L as P	mg/L as P	mg/L as P	mg/L as P					
	(00945)	(00623)	(00608)	(00631)	(00671)	(49570)	(49570)	(49570)	(49570)	(49570)	(49570)	(49570)	(49570)	(49570)	(49570)	(49570)	(49570)
Nov 06...	7.15	.17	.040	.16	E.004	.03	E.008	.015	.33	.36	.26	.26	.26	.26	.26	.26	.26
Feb 02...	7.46	.10	<.026	.30	<.010	E.02	E.006	.011	.41	E.43	.21	.21	.21	.21	.21	.21	.21
May 06...	8.02	.24	.026	.17	.014	.06	.012	.016	.41	.47	.48	.48	.48	.48	.48	.48	.48

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 1 of 7

[Remark codes: &lt;, less than; E, estimated.]

Date	1,2,3-										cis-			
	Tri-chloro-	Dibromo-	1,2-Di-	1,2-Di-	1,2-Di-	1,3-Di-	1,4-Di-	3-	Acrylo-	Bromo-	Carbon	1,3-Di-	chloro-	Iodo-
	chloropropane	chloropropane	bromoethane,	chloroethane,	chloropropane	chlorobenzene	chloropropene	Chloro-	nitrile	methane	di-	chloropropene	methane	
	water,	water,	water,	water,	water,	water,	water,	water,	water,	water,	sulfide	water,	water,	
	unfltrd	unfltrd	unfltrd	unfltrd	unfltrd	unfltrd	unfltrd	unfltrd	unfltrd	unfltrd	unfltrd	unfltrd	unfltrd	
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
	(77443)	(82625)	(77651)	(32103)	(34541)	(77173)	(34571)	(78109)	(34215)	(34413)	(77041)	(34704)	(77424)	
Feb 02...	<.12	<1.0	<.04	<.1	<.02	<.1	<.02	<.08	<.4	<.4	<.04	<.10	<.80	

## 01443000 DELAWARE RIVER AT PORTLAND, PA—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 2 of 7

[Remark codes: &lt;, less than; E, estimated.]

Date	trans-1,3-Dichloro-propene water, unfltrd	1,1,1,2-Tetra-chloro-ethane, water, unfltrd	1,1,1-Chloro-ethane, water, unfltrd	1,1,2,2-Tetra-chloro-ethane, CFC-113	1,1,2-Chloro-ethane, water, unfltrd	1,1-Di-chloro-ethane, water, unfltrd	1,1-Di-chloro-ethene, water, unfltrd	1,1-Di-chloro-propene benzene	1,2,3,4-Tetra-methyl-benzene water, unfltrd	1,2,3,5-Tetra-methyl-benzene water, unfltrd	1,2,3-Tri-chloro-benzene water, unfltrd	1,2,3-Tri-methyl-benzene	
	µg/L (34699)	µg/L (77562)	µg/L (34506)	µg/L (34516)	µg/L (77652)	µg/L (34511)	µg/L (34496)	µg/L (34501)	µg/L (77168)	µg/L (49999)	µg/L (50000)	µg/L (77613)	µg/L (77221)
Feb 02...	<.10	<.04	<.02	<.10	<.04	<.06	<.04	<.02	<.04	<.1	<.1	<.1	<.1

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 3 of 7

[Remark codes: &lt;, less than; E, estimated.]

Date	1,2,4-Tri-chloro-benzene water, unfltrd	1,2,4-Tri-methyl-benzene water, unfltrd	1,2-Di-chloro-benzene water, unfltrd	1,3,5-Tri-methyl-benzene water, unfltrd	1,3-Di-chloro-benzene water, unfltrd	2,2-Di-chloro-propane	2-Chloro-toluene	2-Ethyl-toluene	4-Chloro-toluene	4-Iso-propyl-toluene	Acetone	Benzene	Bromo-benzene
	µg/L (34551)	µg/L (77222)	µg/L (34536)	µg/L (77226)	µg/L (34566)	µg/L (77170)	µg/L (77275)	µg/L (77220)	µg/L (77277)	µg/L (77356)	µg/L (81552)	µg/L (34030)	µg/L (81555)
Feb 02...	<.04	<.04	<.02	<.04	<.02	<.06	<.02	<.02	<.02	<.06	<4	E.02	<.02

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 4 of 7

[Remark codes: &lt;, less than; E, estimated.]

Date	Bromo-Bromo-dichloro-methane water, unfltrd	Bromo-chloro-methane water, unfltrd	Bromo-ethene, water, unfltrd	Chloro-benzene water, unfltrd	Chloro-ethane, water, unfltrd	Chloro-methane water, unfltrd	cis-1,2-Di-chloro-ethene, water, unfltrd	Di-bromo-chloro-methane water, unfltrd	Di-bromo-methane water, unfltrd	Di-chloro-fluoro-methane water, unfltrd	Di-chloro-methane water, unfltrd	Di-ethyl-ether, water, unfltrd	Di-isopropyl-ether, water, unfltrd
	µg/L (77297)	µg/L (32101)	µg/L (50002)	µg/L (34301)	µg/L (34311)	µg/L (34418)	µg/L (77093)	µg/L (32105)	µg/L (30217)	µg/L (34668)	µg/L (34423)	µg/L (81576)	µg/L (81577)
Feb 02...	<.06	<.04	<.1	<.02	<.1	<.1	<.02	<.1	<.04	<.10	<.04	<.1	<.06

## 01443000 DELAWARE RIVER AT PORTLAND, PA—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 5 of 7

[Remark codes: &lt;, less than; E, estimated.]

Date	Ethyl methacrylate, water, unfltrd	Ethyl methyl ketone, water, unfltrd	Ethyl benzene	Hexa-chlorobutadiene, water, unfltrd	Hexa-chloroethane, water, unfltrd	Iso-butyl ketone, water, unfltrd	Iso-propyl benzene	Methyl acrylate, water, unfltrd	Methyl acrylonitrile, water, unfltrd	Methyl methacrylate, water, unfltrd	Methyl t-butyl ether, water, unfltrd	Methyl pentyl ether, water, unfltrd	Methyl + para-Xylene, water, unfltrd
	µg/L (73570)	µg/L (81595)	µg/L (34371)	µg/L (39702)	µg/L (34396)	µg/L (78133)	µg/L (77223)	µg/L (49991)	µg/L (81593)	µg/L (81597)	µg/L (78032)	µg/L (50005)	µg/L (85795)
Feb 02...	<.1	<1.6	<.04	<.1	<.1	<.4	<.04	<.6	<.2	<.2	<.10	<.06	<.08

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 6 of 7

[Remark codes: &lt;, less than; E, estimated.]

Date	Naphthalene, water, unfltrd	Methyl n-butyl ketone, water, unfltrd	n-Butyl benzene	Propyl benzene	o-Xylene, water, unfltrd	sec-Butyl-benzene	t-Butyl Styrene	tert-Butyl-ether, water, unfltrd	Tetra-chloro-ethene, water, unfltrd	Tetra-chloro-methane, water, unfltrd	Tetra-hydro-furan, water, unfltrd	Toluene µg/L (34696)	µg/L (77103)	µg/L (77342)	µg/L (77224)	µg/L (77135)	µg/L (77350)	µg/L (77128)	µg/L (50004)	µg/L (77353)	µg/L (34475)	µg/L (32102)	µg/L (81607)	µg/L (34010)
Feb 02...	<.2	<.6	<.1	<.04	<.04	<.02	<.04	<.04	<.06	<.04	<.04	<.06	<.1	E.02										

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 7 of 7

[Remark codes: &lt;, less than; E, estimated.]

Date	trans-1,2-Dichloro-ethene, water, unfltrd	trans-1,4-Dichloro-chloro-ethene, water, wat unf	Tri-bromo-methane	Tri-chloro-ethene, water, unfltrd	Tri-fluoro-methane	Tri-chloro-methane	Vinyl chloride, water, unfltrd
	µg/L (34546)	µg/L (73547)	µg/L (32104)	µg/L (39180)	µg/L (34488)	µg/L (32106)	µg/L (39175)
Feb 02...	<.02	<.4	<.10	<.02	<.08	<.02	<.1