



Water-Data Report 2009

**01482508 SALEM RIVER AT U.S. ROUTE 40, AT SHARPTOWN, NJ**

DELAWARE RIVER BASIN

LOCATION.--Lat 39°39'25", long 75°21'40" referenced to North American Datum of 1983, Pilesgrove Township, Salem County, NJ, Hydrologic Unit 02040206, at bridge on U.S. Route 40, 0.1 mi upstream from Nichomus Run, 0.2 mi east of Sharptown, and 0.5 mi southwest of Marlton Heights.

DRAINAGE AREA.--22.2 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--Miscellaneous measurements, water years 2007-09.

GAGE.--Reference point only.

**DISCHARGE MEASUREMENTS  
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

<b>Date</b>	<b>Discharge, in ft<sup>3</sup>/s</b>
May 5, 2009	40.8

01482508 SALEM RIVER AT U.S. ROUTE 40, AT SHARPTOWN, NJ—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2007 to current year.

COOPERATION.--Physical measurements and samples for laboratory analysis were collected in cooperation with the NJ Department of Environmental Protection. Determinations of carbonaceous biochemical oxygen demand 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: <, less than.]

Date	Time	Medium name	Sample type	Barometric pressure, mm Hg (00025)	Temperature, air, deg C (00020)	Instantaneous discharge, ft <sup>3</sup> /s (00061)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)
<b>May</b>								
05...	1140	Surface water	Replicate	765	14.5	41	8.8	85
05...	1145	QC sample - Surface water	Split Replicate	--	--	--	--	--

WATER-QUALITY DATA  
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 2 of 3

[Remark codes: <, less than.]

Date	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf μS/cm @ 25 degC (00095)	Temperature, deg C (00010)	Turbidity, white light, det ang 90+/-30, corrctd NTRU (63676)	CBOD, water, unfltrd 5 day, mg/L (80082)	Dissolved solids, dried @ 180degC, wat flt mg/L (70300)	Suspended solids, unfltrd mg/L (00530)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Chloride, water, fltrd, mg/L (00940)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia + water, fltrd, mg/L as N (00608)	Nitrate + nitrite, water, fltrd, mg/L as N (00631)	Phosphorus, water, fltrd, mg/L as P (00666)
<b>May</b>													
05...	6.9	255	14.2	34	<1.0	160	40	40	23.5	1.2	.295	1.83	.06
05...	--	--	--	--	<1.0	157	37	40	23.7	1.3	.290	1.84	.07

WATER-QUALITY DATA  
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 3 of 3

[Remark codes: <, less than.]

Date	Phosphorus, water, unfltrd mg/L as P (00665)	Total nitrogen, water, unfltrd mg/L (00600)	Chlorophyll a, phytoplankton, fluoro, μg/L (70953)	Pheophytin a, phytoplankton, μg/L (62360)	Iron, water, unfltrd recoverable, μg/L (01045)	Boron, water, unfltrd recoverable, μg/L (01022)	Organic carbon, water, unfltrd mg/L (00680)
<b>May</b>							
05...	.25	3.0	11.0	16.7	2,450	27	10.4
05...	.28	3.1	11.6	18.8	2,630	27	10.5