



Water-Data Report 2007

**01482537 SALEM RIVER AT COURSES LANDING, NJ**

DELAWARE RIVER BASIN

LOCATION.--Lat 39°39'38", long 75°24'33" referenced to North American Datum of 1983, Pilesgrove Township, Salem County, NJ, Hydrologic Unit 02040206, at bridge on Pointers-Auburn Road (County Route 646) in Courses Landing, 2.0 mi downstream from Major Run, and 2.4 mi west of Sharptown.

DRAINAGE AREA.--35.9 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--Miscellaneous measurement, water year 2007.

GAGE.--Reference point only.

**DISCHARGE MEASUREMENTS  
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

<b>Date</b>	<b>Discharge, in ft<sup>3</sup>/s</b>
Sep 25, 2007	17.3

## 01482537 SALEM RIVER AT COURSES LANDING, NJ—Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975-79, 2007.

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 2006 TO SEPTEMBER 2007**

Part 1 of 3

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

Date	Time	Sample type	Instan- taneous dis- charge, cfs (00061)	Turbdty white light, 90+/-30 corrctd NTRU (63676)	Baro- metric pres- sure, mm Hg (00025)	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 µS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)
<b>Jul</b>												
10...	1250	Environmental	E24	28	760	--	--	8.9	286	30.0	27.1	55
25...	0950	Environmental	E16	32	765	8.4	99	7.8	285	26.0	23.2	61
<b>Aug</b>												
15...	1400	Environmental	E13	20	758	7.9	94	8.9	289	27.0	24.6	67
22...	1430	Environmental	E18	18	764	5.9	66	7.0	265	21.0	18.4	51
<b>Sep</b>												
25...	0940	Environmental	17	98	767	5.4	58	7.3	317	26.0	19.6	63
25...	0941	Split Replicate	--	--	--	--	--	--	--	--	--	63

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 2 of 3

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

Date	Residue Chlor- ide, water, fltrd, mg/L (00940)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total non- filter- able, mg/L (00530)	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)	Total nitro- gen, water, unfltrd mg/L (00600)	Phos- phorus, water, fltrd, mg/L (00666)	Phos- phorus, water, unfltrd mg/L (00665)	Organic carbon, water, unfltrd mg/L (00680)	CBOD, water, unfltrd 5 day, mg/L (80082)	Chloro- phyll a phyto- plank- ton, fluoro, µg/L (70953)	Pheo- phytin a, phyto- plank- ton, µg/L (62360)
<b>Jul</b>													
10...	27.0	178	26	1.7	<.040	.84	2.6	.020	.221	12.4	6.9	102	26.8
25...	26.8	170	41	1.3	.059	1.27	2.6	.029	.333	8.9	--	73.7	37.4
<b>Aug</b>													
15...	27.6	177	34	1.6	<.040	1.12	2.8	.025	.248	13.0	2.8	126	36.9
22...	25.0	176	16	1.3	.474	1.13	2.4	.077	.249	8.0	E2.1	17.1	11.7
<b>Sep</b>													
25...	31.4	205	120	1.4	.229	2.78	4.2	.059	.55	9.4	<1.0	12.4	21.5
25...	31.4	184	121	1.4	.230	2.76	4.1	.062	.55	10.2	<1.0	12.6	23.1

**01482537 SALEM RIVER AT COURSES LANDING, NJ—Continued****WATER-QUALITY DATA  
WATER YEAR OCTOBER 2006 TO  
SEPTEMBER 2007**

Part 3 of 3

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

<b>Date</b>	<b>Boron, water, unfltrd recover -able, µg/L (01022)</b>	<b>Iron, water, unfltrd recover -able, µg/L (01045)</b>
<b>Jul</b>		
<b>10...</b>	41	951
<b>25...</b>	47	2,070
<b>Aug</b>		
<b>15...</b>	54	1,280
<b>22...</b>	42	1,860
<b>Sep</b>		
<b>25...</b>	74	5,540
<b>25...</b>	74	5,630