

**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 year 2007.

GAGE.--Reference point only.

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

| <b>Date</b>  | <b>Discharge,<br/>in ft<sup>3</sup>/s</b> |
|--------------|---|
| Jul 9, 2007  | 8.68                                      |
| Jul 24, 2007 | 6.39                                      |
| Aug 14, 2007 | 5.62                                      |
| Aug 22, 2007 | 22.2                                      |
| Sep 24, 2007 | 5.07                                      |

## 01482508 SALEM RIVER AT US ROUTE 40, AT SHARPTOWN, NJ—Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--July to September 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 2

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

| Date       | Time | Instan-<br>taneous<br>dis-<br>charge,<br>cfs<br>(00061) | Turbdty<br>white<br>light,<br>det ang<br>90+/-30<br>corrctd<br>NTRU<br>(63676) | Baro-<br>metric<br>pres-<br>sure,<br>mm Hg<br>(00025) | Dis-<br>solved<br>oxygen,<br>mg/L<br>(00300) | Dis-<br>solved<br>oxygen,<br>percent<br>of sat-<br>uration<br>(00301) | pH,<br>water,<br>unfltrd<br>field,<br>std<br>units<br>(00400) | Specif-<br>ic<br>conduc-<br>tance,<br>wat unf<br>µS/cm<br>25 degC<br>(00095) | Temper-<br>ature,<br>air,<br>deg C<br>(00020) | Temper-<br>ature,<br>water,<br>deg C<br>(00010) | ANC,<br>wat unf<br>fixed<br>end pt,<br>lab,<br>mg/L as<br>CaCO3<br>(90410) | Chlor-<br>ide,<br>water,<br>fltrd,<br>mg/L<br>(00940) | Residue<br>on<br>evap.<br>at<br>180degC<br>wat flt<br>mg/L<br>(70300) |
|------------|------|---|--|---|--|---|---|--|---|---|--|---|---|
| <b>Jul</b> |      |   |  |   |  |   |   |  |   |   |  |   |   |
| 09...      | 1320 | 8.7   | 12   | 760   | 7.4  | 89  | 7.2   | 300  | 35.0  | 24.9  | 55   | 30.4  | 170   |
| 24...      | 1230 | 6.4   | 8.2  | 763   | 7.3  | 80  | 7.2   | 355  | 25.0  | 20.0  | 70   | 36.5  | 189   |
| <b>Aug</b> |      |   |  |   |  |   |   |  |   |   |  |   |   |
| 14...      | 1110 | 5.6   | 6.8  | 759   | 6.9  | 78  | 7.2   | 345  | 28.0  | 21.0  | 71   | 36.3  | 207   |
| 22...      | 1150 | 21  | 14   | 764   | 7.5  | 80  | 7.3   | 296  | 17.0  | 18.4  | 53   | 26.5  | 168   |
| <b>Sep</b> |      |   |  |   |  |   |   |  |   |   |  |   |   |
| 24...      | 1110 | 5.1   | 4.8  | 765   | 7.7  | 80  | 7.2   | 372  | 22.0  | 17.3  | 66   | 41.1  | 222   |

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

Part 2 of 2

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

| Date       | Residue<br>total<br>non-<br>filter-<br>able,<br>mg/L<br>(00530) | Ammonia<br>+<br>org-N,<br>water,<br>unfltrd<br>mg/L<br>as N<br>(00625) | Ammonia<br>water,<br>fltrd,<br>mg/L<br>as N<br>(00608) | Nitrate<br>+<br>nitrite<br>water,<br>fltrd,<br>mg/L<br>as N<br>(00631) | Total<br>nitro-<br>gen,<br>water,<br>unfltrd<br>mg/L<br>(00600) | Phos-<br>phorus,<br>water,<br>fltrd,<br>mg/L<br>(00666) | Phos-<br>phorus,<br>water,<br>unfltrd<br>mg/L<br>(00665) | Organic<br>carbon,<br>water,<br>unfltrd<br>mg/L<br>(00680) | CBOD,<br>water,<br>unfltrd<br>5 day,<br>mg/L<br>(80082) | Chloro-<br>phyll a<br>phyto-<br>plank-<br>ton,<br>fluoro,<br>µg/L<br>(70953) | Pheo-<br>phytin<br>a,<br>phyto-<br>plank-<br>ton,<br>µg/L<br>(62360) | Boron,<br>water,<br>unfltrd<br>recover<br>-able,<br>µg/L<br>(01022) | Iron,<br>water,<br>unfltrd<br>recover<br>-able,<br>µg/L<br>(01045) |
|------------|---|--|--|--|---|---|--|--|---|--|--|---|--|
| <b>Jul</b> |   |  |  |  |   |   |  |  |   |  |  |   |  |
| 09...      | 8   | .92  | .098   | 1.78   | 2.7   | .088  | .183   | 7.1  | E1.6  | 30.0   | 11.5   | 62  | 980  |
| 24...      | 3   | .58  | .078   | 2.70   | 3.3   | .089  | .169   | 5.4  | <1.0  | .9   | 1.4  | 101   | 1,080  |
| <b>Aug</b> |   |  |  |  |   |   |  |  |   |  |  |   |  |
| 14...      | 5   | .56  | .078   | 2.57   | 3.1   | .096  | .169   | 5.6  | E1.4  | .9   | 1.8  | 92  | 1,080  |
| 22...      | 15  | 1.1  | .376   | 1.31   | 2.4   | .080  | .207   | 6.0  | <1.0  | 9.6  | 9.7  | 34  | 1,650  |
| <b>Sep</b> |   |  |  |  |   |   |  |  |   |  |  |   |  |
| 24...      | 2   | .53  | .050   | 3.22   | 3.7   | .055  | .128   | 4.2  | E2.0  | .7   | 1.5  | 122   | 875  |