

01391500 SADDLE RIVER AT LODI, NJ

LOCATION.--Lat 40°53'25", long 74°04'50", Bergen County, Hydrologic Unit 02030103, 560 ft upstream from bridge on Outwater Lane in Lodi and 3.2 mi upstream from mouth. Water-quality samples collected at bridge on Outwater Lane at high flows.

DRAINAGE AREA.--54.6 mi².

PERIOD OF RECORD.--Water years 1962 to current year.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Concentrations of ammonia in samples collected during November to December and August to September; orthophosphate in every sampling period except February to March; and nitrite, biochemical oxygen demand, total suspended residue, fecal coliform, E. coli, and enterococcus bacteria were determined by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator, New Jersey Department of Environmental Protection Watershed Management Area 4.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

| Date | Time | Instantaneous discharge, cfs (00061) | Turbidity white light, det ang 90+/-30 correctd NTRU (63676) | UV absorbance, 254 nm, wat flt units /cm (50624) | UV absorbance, 280 nm, wat flt units /cm (61726) | Barometric pressure, mm Hg (00025) | Dissolved oxygen, mg/L (00300) | Dissolved oxygen, percent of saturation (00301) | pH, water, unfltrd field, std units (00400) | Specific conductance, wat unfltrd uS/cm 25 degC (00095) | Temperature, air, deg C (00020) | Temperature, water, deg C (00010) | Hardness, water, mg/L as CaCO3 (00900) |
|-----------|------|--------------------------------------|--|--|--|------------------------------------|--------------------------------|---|---|---|---------------------------------|-----------------------------------|--|
| NOV 23... | 1000 | 55 | 1.6 | .108 | .084 | 764 | 8.4 | -- | 7.8 | -- | 11.8 | 10.9 | 220 |
| MAR 10... | 1000 | 108 | 2.4 | .089 | .067 | 756 | 13.3 | -- | 8.2 | -- | .0 | 3.3 | 240 |
| JUN 08... | 1100 | 52 | 3.7 | .132 | .099 | 760 | 5.8 | 66 | 7.8 | 834 | 23.6 | 21.8 | 220 |
| AUG 23... | 1000 | 31 | 3.1 | .116 | .088 | 760 | 6.2 | 69 | 7.9 | 958 | 21.3 | 20.8 | 250 |

| Date | Calcium water, fltrd, mg/L (00915) | Magnesium, water, fltrd, mg/L (00925) | Potassium, water, fltrd, mg/L (00935) | Sodium, water, fltrd, mg/L (00930) | ANC, wat unfltrd fixed end pt, lab, mg/L as CaCO3 (90410) | Chloride, water, fltrd, mg/L (00940) | Fluoride, water, fltrd, mg/L (00950) | Silica, water, fltrd, mg/L (00955) | Sulfate water, fltrd, mg/L (00945) | Residue water, fltrd, sum of constituents mg/L (70301) | Residue on evap. at 180degC wat flt mg/L (70300) | Residue total at 105 deg. C, suspended, mg/L (00530) | Ammonia + org-N, water, fltrd, mg/L as N (00623) |
|-----------|------------------------------------|---------------------------------------|---------------------------------------|------------------------------------|---|--------------------------------------|--------------------------------------|------------------------------------|------------------------------------|--|--|--|--|
| NOV 23... | 60.6 | 16.5 | 5.00 | 66.8 | 141 | 134 | .1 | 13.3 | 24.2 | 427 | 441 | 3 | .48 |
| MAR 10... | 68.5 | 15.6 | 4.07 | 205 | 120 | 358 | .1 | 11.0 | 25.8 | 779 | 819 | -- | .65 |
| JUN 08... | 59.3 | 17.7 | 5.40 | 74.2 | 123 | 150 | .1 | 13.9 | 25.9 | 451 | 471 | -- | .82 |
| AUG 23... | 68.0 | 20.3 | 7.58 | 87.3 | 134 | 180 | .1 | 12.0 | 29.5 | 526 | 556 | 3 | .67 |

| Date | Ammonia water, fltrd, mg/L as N (00608) | Nitrite + nitrate water, fltrd, mg/L as N (00631) | Nitrite water, fltrd, mg/L as N (00613) | Particulate nitrogen, susp, water, mg/L (49570) | Total nitrogen, water, fltrd, mg/L (00602) | Total nitrogen, water, unfltrd mg/L (00600) | Orthophosphate, water, fltrd, mg/L as P (00671) | Phosphorus, water, fltrd, mg/L (00666) | Phosphorus, water, unfltrd mg/L (00665) | Total carbon, suspnd sedimnt total, mg/L (00694) | Inorganic carbon, suspnd sedimnt total, mg/L (00688) | Organic carbon, suspnd sedimnt total, mg/L (00689) |
|-----------|---|---|---|---|--|---|---|--|---|--|--|--|
| NOV 23... | -- | 4.59 | .086 | .14 | 5.1 | 5.2 | .751 | .71 | .75 | .5 | <.1 | .5 |
| MAR 10... | .257 | 3.86 | -- | .07 | 4.5 | 4.6 | .344 | .36 | .40 | .5 | <.1 | .5 |
| JUN 08... | .188 | 6.35 | -- | .13 | 7.2 | 7.3 | .881 | .89 | .99 | .9 | <.1 | .9 |
| AUG 23... | .093 | 8.32 | -- | .12 | 9.0 | 9.1 | 1.42 | 1.46 | 1.51 | .7 | <.1 | .7 |

PASSAIC RIVER BASIN

01391500 SADDLE RIVER AT LODI, NJ—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

| Date | Organic carbon, water, fltrd, mg/L (00681) | BOD, water, unfltrd 5 day, 20 degC mg/L (00310) | Boron, water, fltrd, ug/L (01020) | Suspended sediment concentration mg/L (80154) | Suspended sediment discharge, tons/d (80155) |
|-----------|--|---|-----------------------------------|---|--|
| NOV 23... | 3.6 | E1.7 | 111 | -- | -- |
| MAR 10... | 3.2 | -- | 70 | 2 | .58 |
| JUN 08... | 4.4 | E1.7 | 110 | 12 | 1.7 |
| AUG 23... | 4.3 | E1.0 | 160 | -- | -- |

Remark codes used in this table:

< -- Less than.

E -- Estimated.

WATER-COLUMN BACTERIA ANALYSES

Samples were collected synoptically over a 30-day period during the summer.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

| Date | Time | Instantaneous discharge, cfs (00061) | Enterococci, m-E MF, water, col/ 100 mL (31649) | E coli, m-TEC MF, water, col/ 100 mL (31633) | Fecal coliform, ECbroth water, MPN/ 100 mL (31615) |
|-----------|------|--------------------------------------|---|--|--|
| JUN 01... | 1058 | 51 | 250 | 600 | 800 |
| 08... | 1109 | 52 | 360 | 500 | 1,100 |
| 15... | 1115 | 41 | 540 | 2,000 | 1,300 |
| 22... | 1115 | 38 | 630 | 900 | 1,100 |
| 29... | 1041 | 38 | 540 | 1,100 | 1,100 |