



Water-Data Report 2006

**01411444 WEST CREEK NEAR LEESBURG, NJ**

WEST CREEK BASIN

LOCATION.--Lat 39°15'36", long 74°54'41" referenced to North American Datum of 1983, Maurice River Township, Cumberland County, NJ, Hydrologic Unit 02040206, at bridge on County Route 550, 1.5 mi upstream of Hands Millpond, 2.4 mi south of Halberton, and 4.0 mi east of Leesburg.

DRAINAGE AREA.--6.64 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--Miscellaneous measurements, water years 1999 to current year.

GAGE.--Staff gage.

**DISCHARGE MEASUREMENTS  
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

| <b>Date</b>  | <b>Discharge,<br/>in ft<sup>3</sup>/s</b> |
|--------------|---|
| Dec 6, 2005  | 12.9                                      |
| Feb 15, 2006 | 10.6                                      |
| May 17, 2006 | 11.8                                      |
| Aug 10, 2006 | 2.95                                      |

## 01411444 WEST CREEK NEAR LEESBURG, NJ—Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1999 to current year.

REMARKS.--Total nitrogen (00600) equals the sum of filtered ammonia plus organic nitrogen (00623), filtered nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570). Bacteria samples were collected synoptically over a 30-day period during the summer.

COOPERATIVE NETWORK SITE DESCRIPTOR: Undeveloped Land Use Indicator, New Jersey Department of Environmental Protection (NJDEP) Watershed Management Area 16.

COOPERATION.--Samples were collected in cooperation with the NJDEP. Bacteria samples were provided by the local county health department under the direction of the NJDEP through the County Environmental Health Act. Determinations of filtered ammonia, filtered orthophosphorus, BOD, total suspended residue, fecal coliform, E. coli, and enterococcus bacteria were performed by the NJ Department of Health and Senior Services.

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

Part 1 of 4

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

| Date      | Time | Instantaneous discharge, cfs (00061) | Turbidity white light, det ang 90+/-30 corrctd 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 unf 25 degC (00095) | Temperature, air, deg C (00020) | Temperature, water, deg C (00010) | Hardness, water, mg/L as CaCO3 (00900) |
|-----------|------|--------------------------------------|---|--|--|------------------------------------|--------------------------------|---|---|---|---------------------------------|-----------------------------------|--|
| Dec 06... | 0950 | 13                                   | .9  | .401   | .302   | 763                                | 11.4                           | 82  | --  | 74  | 1.0                             | 1.9                               | 4                                      |
| Feb 15... | 1150 | 11                                   | .5  | .365   | .274   | 770                                | 11.7                           | 88  | 3.8   | 63  | 11.0                            | 3.9                               | 4                                      |
| May 17... | 0930 | 12                                   | 1.5   | .510   | .392   | 751                                | 7.4                            | 75  | 4.0   | 51  | --                              | 15.3                              | 3                                      |
| Aug 10... | 1210 | 3.0                                  | 3.4   | .681   | .534   | 762                                | 4.3                            | 52  | 3.5   | 46  | 27.5                            | 24.4                              | 2                                      |

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

Part 2 of 4

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

| 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 unf 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 on evap. at 180degC, wat flt mg/L (70300) | Residue total at 105 deg. C, sus-pended, mg/L (00530) | Ammonia + org-N, water, fltrd, mg/L as N (00623) | Ammonia water, fltrd, mg/L as N (00608) |
|-----------|------------------------------------|---------------------------------------|---------------------------------------|------------------------------------|---|--------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|---|---|--|---|
| Dec 06... | .51                                | .782                                  | .58                                   | 3.08                               | --  | 5.54                                 | <.10                                 | 8.8                                | 9.65                                | 41  | 3   | .23  | .023                                    |
| Feb 15... | .57                                | .718                                  | .67                                   | 3.02                               | --  | 4.91                                 | <.10                                 | 7.4                                | 8.96                                | 47  | <1  | .20  | .050                                    |
| May 17... | .39                                | .487                                  | .51                                   | 2.68                               | --  | 5.14                                 | E.05                                 | 7.4                                | 4.90                                | 45  | 2   | .32  | .027                                    |
| Aug 10... | .34                                | .376                                  | .72                                   | 2.49                               | <5  | 5.28                                 | <.10                                 | 10.9                               | 2.50                                | 37  | 12  | .40  | .032                                    |

## 01411444 WEST CREEK NEAR LEESBURG, NJ—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

Part 3 of 4

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

| Date             | Nitrite + nitrate water fltrd, mg/L as N (00631) | Particulate nitrogen, susp, water, mg/L (49570) | Total nitrogen, water, fltrd, mg/L (00602) | Ortho-phosphate, 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) | Organic carbon, water, fltrd, mg/L (00681) | BOD, water, unfltrd 5 day, 20 degC mg/L (00310) | Aluminum, water, fltrd, ug/L (01106) | Boron, water, fltrd, ug/L (01020) |
|------------------|--|---|--|--|--|--|--|--|--|--|---|--------------------------------------|-----------------------------------|
| <b>Dec 06...</b> | <.06   | <.02  | --   | <.010  | E.003                                  | E.004                                    | <.1  | <.1  | <.1  | 9.3  | <1.0  | 300                                  | 12                                |
| <b>Feb 15...</b> | .13  | <.02  | .33  | E.005  | <.004                                  | E.002                                    | .2   | <.1  | .2   | 7.7  | E1.5  | --                                   | 10                                |
| <b>May 17...</b> | <.06   | .05   | --   | E.005  | E.003                                  | .009                                     | .8   | <.1  | .8   | 10.5                                       | E2.0  | --                                   | 13                                |
| <b>Aug 10...</b> | <.06   | .06   | --   | E.007  | .005                                   | .008                                     | 1.0  | <.1  | 1.0  | 12.0                                       | E1.1  | --                                   | 13                                |

**WATER-QUALITY DATA**

**WATER YEAR**  
**OCTOBER 2005 TO**  
**SEPTEMBER 2006**

Part 4 of 4

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

| Date             | Iron, water, fltrd, ug/L (01046) |
|------------------|----------------------------------|
| <b>Dec 06...</b> | 275                              |
| <b>Feb 15...</b> | --                               |
| <b>May 17...</b> | --                               |
| <b>Aug 10...</b> | --                               |

## 01411444 WEST CREEK NEAR LEESBURG, NJ—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

[Remark codes: <, less than.]

| <b>Date</b> | <b>Time</b> | <b>Temper-<br/>ature,<br/>water,<br/>deg C<br/>(00010)</b> | <b>Entero-<br/>cocci,<br/>m-E<br/>MF,<br/>water,<br/>col/<br/>100 mL<br/>(31649)</b> | <b>E coli,<br/>m-TEC<br/>MF,<br/>water,<br/>col/<br/>100 mL<br/>(31633)</b> | <b>Fecal<br/>coli-<br/>form,<br/>ECbroth<br/>water,<br/>MPN/<br/>100 mL<br/>(31615)</b> |
|-------------|-------------|--|--|---|---|
| <b>Aug</b>  |             |  |  |   |   |
| 16...       | 0940        | 22.9   | <10  | <10   | 20  |
| 23...       | 0945        | 23.9   | <10  | 60  | 170   |
| 30...       | 1009        | 24.1   | <10  | 50  | 130   |
| <b>Sep</b>  |             |  |  |   |   |
| 06...       | 1001        | 19.0   | <10  | 40  | 80  |
| 13...       | 1017        | 16.5   | 140  | <10   | 80  |