



Water-Data Report 2008

373022081003701 Local number Mer-0175

Undefined Aquifer
 Bluestone and Princeton Formations
 Mercer County, WV

LOCATION.--Lat 37°30'22.0", long 81°00'37.3" referenced to North American Datum of 1983, Mercer County, WV, Hydrologic Unit 05050002.

WATER-QUALITY RECORDS

REMARKS.--During the period of April 28 to June 19, 2008, 30 wells were sampled as part of an ongoing study with the West Virginia Department of Environmental Protection-Division of Water and Waste Management (WV-DEP-DWWM) of ambient ground-water quality in West Virginia. Samples were collected from wells in the following hydrologic units: Greenbrier (05050003), Little Kanawha (05030203), Lower New (05050004), Upper New (05050002), and Monongahela (05020003). Sample analyses included field determinations, major ions, nutrients, microbiological indicators, metals, volatile organic compounds, and radon.

Since 1999, 30 wells have been selected and sampled annually to characterize the ambient quality of West Virginia's ground-water resources. Data for samples collected from 1999-2005 were published in "Water Resources Data-West Virginia-Water Year XXXX, Water-Data Report WV-XX-01". Electronic versions of these reports from 2001-2005 can be found at: <http://pubs.usgs.gov/wdr/#wv>. Data from 1999-2000 can be requested via email at dc_wv@usgs.gov. Data from 2006 and 2007 can be found at: <http://wdr.water.usgs.gov/>.

**WATER-QUALITY DATA
 WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 1 of 7

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

Date	Time	Depth of well, feet below LSD (72008)	Depth to water level, feet below LSD (72019)	Altitude of land surface feet (72000)	Pump or flow period to sampling, minutes (72004)	Turbidity white light, 90+/-30 corrctd NTRU (63676)	Barometric pressure, mm Hg (00025)	Carbon dioxide water, unfltrd mg/L (00405)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, unfltrd field, std units (00400)	Specific conductance, wat unfltrd μS/cm 25 degC (00095)	Temperature, deg C (00010)
Apr 29...	1020	100	38.00	2,470	>70	1.5	699	14	1.2	12	7.4	407	12.7

**WATER-QUALITY DATA
 WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 2 of 7

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

Date	Noncarbon hardness, wat unfltrd lab, mg/L as CaCO3 (00903)	Calcium water unfltrd recover mg/L (00916)	Magnesium, water, unfltrd recover mg/L (00927)	Potassium, water, unfltrd recover mg/L (00937)	Sodium, water, unfltrd recover mg/L (00929)	ANC, wat unfltrd fixed end pt, lab, mg/L as CaCO3 (90410)	Alkalinity, wat flt inf tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt inf pt titr., field, mg/L (00453)	Carbonate, wat flt inf pt titr., field, mg/L (00452)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Sulfate water, fltrd, mg/L (00945)
Apr 29...	12	63.7	9.71	.57	11.5	187	183	223	<1	.04	9.15	.13	21.7

373022081003701 Local number Mer-0175—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 3 of 7

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

Date	Residue on evap. at 105degC wat unfiltered (00500)	Residue on evap. at 180degC wat filtered (70300)	Ammonia water, filtered (71846)	Ammonia water, filtered, as N (00608)	Nitrate + nitrite water, filtered, as N (00631)	Nitrite water, filtered, as N (00613)	Total nitrogen, water unfiltered, by analysis (62855)	Ortho-phosphate, water, filtered (00660)	Ortho-phosphate, water, filtered, as P (00671)	Phosphorus, water, unfiltered, as P (00665)	Hydrogen ion, water, unfiltered, calculated (00191)	Organic carbon, water, unfiltered (00680)	E coli, Defined Substr. Tech., water, MPN/100 mL (50468)
Apr 29...	260	259	.18	.136	<.04	<.002	.13	.355	.116	.225	.00004	1.0	<1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 4 of 7

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

Date	Fecal coliform, M-FC 0.7u MF col/100 mL (31625)	Total coliform, Defined Tech., MPN/100 mL (50569)	Aluminum, water, unfiltered, recoverable (01105)	Antimony, water, unfiltered (01097)	Arsenic, water, unfiltered (01002)	Barium, water, unfiltered, recoverable (01007)	Beryllium, water, unfiltered, recoverable (01012)	Cadmium, water, unfiltered (01027)	Chromium, water, unfiltered, recoverable (01034)	Iron, water, unfiltered, recoverable (01045)	Lead, water, unfiltered, recoverable (01051)	Manganese, water, unfiltered, recoverable (01055)	Mercury, water, unfiltered, recoverable (71900)
Apr 29...	<1	<1	E2	<.1	E.37	163	E.02	<.01	<.40	1,860	E.03	290	<.010

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 5 of 7

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

Date	Nickel, water, unfiltered, recoverable (01067)	Selenium, water, unfiltered (01147)	Thallium, water, unfiltered (01059)	Zinc, water, unfiltered, recoverable (01092)	1,1,1-Trichloroethane, water, unfiltered (34506)	CFC-113, water, unfiltered (77652)	1,1-Dichloroethane, water, unfiltered (34496)	1,1-Dichloroethene, water, unfiltered (34501)	1,2-Dichlorobenzene, water, unfiltered (34536)	1,2-Dichloroethane, water, unfiltered (32103)	1,2-Dichloropropane, water, unfiltered (34541)	1,3-Dichlorobenzene, water, unfiltered (34566)	1,4-Dichlorobenzene, water, unfiltered (34571)
Apr 29...	1.0	<.08	<.08	6.1	<.1	<.1	<.1	<.1	<.1	<.2	<.1	<.1	<.1

373022081003701 Local number Mer-0175—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 6 of 7

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

Date	Bromo- di- chloro- methane water, unfltrd µg/L (34030)	Tri- bromo- methane water, unfltrd µg/L (32101)	Chloro- benzene water, unfltrd µg/L (32104)	Chloro- benzene water, unfltrd µg/L (34301)	cis- 1,2-Di- chloro- ethene, water, unfltrd µg/L (77093)	Di- bromo- chloro- methane water, unfltrd µg/L (32105)	Di- chloro- di- fluoro- methane wat unf µg/L (34668)	Di- chloro- methane water, unfltrd µg/L (34423)	Di- ethyl ether, water, unfltrd µg/L (81576)	Diiso- propyl ether, water, unfltrd µg/L (81577)	Ethyl- benzene water, unfltrd µg/L (34371)	Methyl tert- pentyl ether, water, unfltrd µg/L (50005)	meta- + para- Xylene, water, unfltrd µg/L (85795)
Apr 29...	<.1	<.1	<.2	<.1	<.1	<.2	<.2	<.2	<.2	<.2	<.1	<.2	<.2

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 7 of 7

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Date	o- Xylene, water, unfltrd µg/L (77135)	Styrene water, unfltrd µg/L (77128)	t-Butyl ethyl ether, water, unfltrd µg/L (50004)	Methyl t-butyl ether, water, unfltrd µg/L (78032)	Tetra- chloro- ethene, water, unfltrd µg/L (34475)	Tetra- chloro- methane water, unfltrd µg/L (32102)	Toluene water, unfltrd µg/L (34010)	trans- 1,2-Di- chloro- ethene, water, unfltrd µg/L (34546)	Tri- chloro- ethene, water, unfltrd µg/L (39180)	Tri- chloro- fluoro- methane water, unfltrd µg/L (34488)	Tri- chloro- methane water, unfltrd µg/L (32106)	Vinyl chlor- ide, water, unfltrd µg/L (39175)	Rn-222, water, unfltrd pCi/L (82303)
Apr 29...	<.1	<.1	<.1	<.2	<.1	<.2	<.1	<.1	<.1	<.2	<.1	<.2	60