



Water-Data Report 2006

**390313079263001 Local number Tuc-0126**

Undefined Aquifer  
Greenbrier Limestone  
Tucker County, WV

LOCATION.--Lat 39°03'12.9", long 79°26'30.4" referenced to North American Datum of 1983, Tucker County, WV, Hydrologic Unit 05020004.

**WATER-QUALITY RECORDS**

REMARKS.--During the period of April 19 to June 23, 2006, 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: Cheat River (05020004), Shenendoah River (02070007), South Branch Potomac River (02070001), the Upper Kanawha River (05050006), and the northern section of the Ohio River (05030101). 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 these samples are published in "Water Resources Data-West Virginia-Water Year XXXX, Water-Data Report WV-XX-01". The electronic versions of these reports can be found at the following url: <http://pubs.usgs.gov/wdr/#wv>.

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

Part 1 of 7

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

Date	Time	Sample type	Depth of well, feet below LSD (72008)	Altitude of land surface, feet (72000)	Pump or flow period to sampling, minutes (72004)	Turbidity white light, det ang 90+/-30 corrctd NTRU (63676)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, unfltrd field, std (00400)	Specific conductance, uS/cm wat unfltrd 25 degC (00095)	Temperature, deg C (00010)
May 22...	1430	Environmental	127	3,210	>40	1.2	677	3.2	32	6.3	367	10.5

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

Part 2 of 7

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

Date	Calcium water unfltrd recover-able, mg/L (00916)	Magnesium, water, unfltrd recover-able, mg/L (00927)	Potassium, water, unfltrd recover-able, mg/L (00937)	Sodium, water, unfltrd recover-able, mg/L (00929)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. 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)	Residue on evap. at 105degC wat unfltrd mg/L (00500)	Residue on evap. at 180degC wat fltrd mg/L (70300)
May 22...	67.1	5.96	.53	4.1	213	260	<1	<.02	14.0	E.05	11.5	235	215

390313079263001 Local number Tuc-0126—Continued

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

Part 3 of 7

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

Date	Ammonia water, flt'd, mg/L as N (00608)	Nitrite + nitrate water flt'd, mg/L as N (00631)	Nitrite water, flt'd, mg/L as N (00613)	Total nitro- gen, wat unf ysis, mg/L (62855)	Ortho- phos- phate, water, flt'd, mg/L as P (00671)	Phos- phorus, water, unflt'd mg/L (00665)	Hydro- gen ion, water, flt'd, calcd, mg/L (00191)	Organic carbon, water, unflt'd mg/L (00680)	E coli, Defined Substr. Tech., water, MPN/ 100 mL (50468)	Fecal coli- form, M-FC 0.7u MF col/ 100 mL (31625)	Total coli- form, Defined Tech., MPN/ 100 mL (50569)	Alum- inum, water, unflt'd recover- able, ug/L (01105)	Anti- mony, water, unflt'd ug/L (01097)
May 22...	<.04	.58	<.008	.61	E.005	.009	.00051	1.0	<1	<1	<1	5	<.2

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

Part 4 of 7

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

Date	Arsenic water unflt'd ug/L (01002)	Barium, water, unflt'd recover- able, ug/L (01007)	Beryll- ium, water, unflt'd recover- able, ug/L (01012)	Cadmium water, unflt'd ug/L (01027)	Chrom- ium, water, unflt'd recover- able, ug/L (01034)	Iron, water, unflt'd recover- able, ug/L (01045)	Lead, water, unflt'd recover- able, ug/L (01051)	Mangan- ese, water, unflt'd recover- able, ug/L (01055)	Mercury water, unflt'd recover- able, ug/L (71900)	Nickel, water, unflt'd recover- able, ug/L (01067)	Selen- ium, water, unflt'd ug/L (01147)	Thall- ium, water, unflt'd ug/L (01059)	Zinc, water, unflt'd recover- able, ug/L (01092)
May 22...	.38	183	<.06	E.02	.32	1,440	9.98	1.1	<.010	.64	.14	<.18	347

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

Part 5 of 7

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

Date	1,1,1- Tri- chloro- ethane, water, unflt'd ug/L (34506)	CFC-113 water unflt'd ug/L (77652)	1,1-Di- chloro- ethane, water unflt'd ug/L (34496)	1,1-Di- chloro- ethene, water, unflt'd ug/L (34501)	1,2-Di- chloro- benzene water unflt'd ug/L (34536)	1,2-Di- chloro- ethane, water, unflt'd ug/L (32103)	1,2-Di- chloro- propane water unflt'd ug/L (34541)	1,3-Di- chloro- benzene water unflt'd ug/L (34566)	1,4-Di- chloro- benzene water unflt'd ug/L (34571)	Benzene water unflt'd ug/L (34030)	Bromo- di- chloro- methane water unflt'd ug/L (32101)	Chloro- benzene water unflt'd ug/L (34301)	cis- 1,2-Di- chloro- ethene, water, unflt'd ug/L (77093)
May 22...	<.1	<.1	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.1

390313079263001 Local number Tuc-0126—Continued

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

Part 6 of 7

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

Date	Di-bromo-chloro-methane water unfltrd ug/L (32105)	Di-chloro-di-fluoro-methane wat unf ug/L (34668)	Di-chloro-methane water unfltrd ug/L (34423)	Di-ethyl ether, water, unfltrd ug/L (81576)	Diiso-propyl ether, water, unfltrd ug/L (81577)	Ethyl-benzene water unfltrd ug/L (34371)	Methyl-tert-pentyl ether, water, unfltrd ug/L (50005)	meta- + para-Xylene, water, unfltrd ug/L (85795)	o-Xylene, water, unfltrd ug/L (77135)	Styrene water unfltrd ug/L (77128)	t-Butyl ethyl ether, water, unfltrd ug/L (50004)	Methyl t-butyl ether, water, unfltrd ug/L (78032)	Tetra-chloro-ethene, water, unfltrd ug/L (34475)
May 22...	<.2	<.2	<.2	<.2	<.2	<.1	<.2	<.2	<.1	<.1	<.1	<.2	<.1

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

Part 7 of 7

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

Date	Tetra-chloro-methane water unfltrd ug/L (32102)	Toluene water unfltrd ug/L (34010)	trans-1,2-Di-chloro-ethene, water, unfltrd ug/L (34546)	Tri-bromo-methane water unfltrd ug/L (32104)	Tri-chloro-ethene, water, unfltrd ug/L (39180)	Tri-chloro-fluoro-methane water unfltrd ug/L (34488)	Tri-chloro-methane water unfltrd ug/L (32106)	Vinyl chloride, water, unfltrd ug/L (39175)	Rn-222, water, unfltrd pCi/L (82303)
May 22...	<.2	<.1	<.1	<.2	<.1	<.2	.2	<.2	770