



Water-Data Report 2006

383829079312401 Local number Pen-0170

Chemung Formation

Pendleton County, WV

LOCATION.--Lat 38°38'28.9", long 79°31'23.9" referenced to North American Datum of 1983, Pendleton County, WV, Hydrologic Unit 02070001.

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; M, presence verified but not quantified.]

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 prior to sampling, minutes (72004)	Turbidity white light, 90+/-30 corrctd NTRU (63676)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, uS/cm wat unf 25 degC (00095)	Temperature, deg C (00010)	Calcium water unfltrd recover -able, mg/L (00916)	Magnesium, water, unfltrd recover -able, mg/L (00927)
May 10...	1230	320	49.09	2,270	>60	<1.0	699	<1.0	9.3	283	13.3	17.9	5.19

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

Part 2 of 7

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Date	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 unf mg/L (00500)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia water, fltrd, mg/L (71846)	Ammonia water, fltrd, mg/L as N (00608)
May 10...	1.58	34.6	118	144	<1	.08	7.30	.14	13.1	182	169	.18	.14

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WATER-QUALITY DATA
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Part 3 of 7

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Date	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 (00660)	Ortho- phos- phate, water, flt'd, mg/L as P (00671)	Phos- phorus, water, unflt'd mg/L (00665)	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)	Arsenic water unflt'd ug/L (01002)
May 10...	<.06	<.008	.20	.107	.035	.040	.7	<1	<1	1	3	<.2	3.5

WATER-QUALITY DATA
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Part 4 of 7

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Date	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)	1,1,1- Tri- chloro- ethane, water, unflt'd ug/L (34506)
May 10...	663	<.06	<.04	.13	221	<.06	75.3	<.010	.39	<.08	<.18	<2	<.1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 5 of 7

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Date	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)	Di- bromo- chloro- methane water unflt'd ug/L (32105)
May 10...	<.1	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.2

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WATER-QUALITY DATA
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Part 6 of 7

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Date	Di-chloro- di-fluoro- methane wat unf	Di-chloro- methane water unfltrd	Di-ethyl ether, water, unfltrd	Diiso- propyl ether, water, unfltrd	Ethyl- benzene water unfltrd	Methyl tert- pentyl ether, water, unfltrd	meta- + para- Xylene, water, unfltrd	o- Xylene, water, unfltrd	Styrene water unfltrd	t-Butyl ethyl ether, water, unfltrd	Methyl t-butyl ether, water, unfltrd	Tetra- chloro- ethene, water, unfltrd	Tetra- chloro- methane water unfltrd
	ug/L (34668)	ug/L (34423)	ug/L (81576)	ug/L (81577)	ug/L (34371)	ug/L (50005)	ug/L (85795)	ug/L (77135)	ug/L (77128)	ug/L (50004)	ug/L (78032)	ug/L (34475)	ug/L (32102)
May 10...	<.2	<.2	<.2	<.2	<.1	<.2	<.2	<.1	<.1	<.1	<.2	<.1	<.2

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Part 7 of 7

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Date	trans- 1,2-Di- chloro- ethene, water, unfltrd	Tri- bromo- methane water, unfltrd	Tri- chloro- ethene, water, unfltrd	Tri- chloro- fluoro- methane water, unfltrd	Tri- chloro- methane water, unfltrd	Vinyl chlor- ide, water, unfltrd	Rn-222, water, unfltrd	
	ug/L (34010)	ug/L (34546)	ug/L (32104)	ug/L (39180)	ug/L (34488)	ug/L (32106)	ug/L (39175)	pCi/L (82303)
May 10...	<.1	<.1	<.2	<.1	<.2	<.1	<.2	40