



Water-Data Report 2006

380907081323601 Local number Kan-0942

Kanawha Formation
 Kanawha County, WV

LOCATION.--Lat 38°09'07.0", long 81°32'36.3" referenced to North American Datum of 1983, Kanawha County, WV, Hydrologic Unit 05050006.

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	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 light, det ang 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, water, unfltrd field, std units (00400)	Specific conductance, wat unf 25 degC (00095)	Temperature, deg C (00010)
Apr 19...	1220	340	313.00	1,333	>50	6.6	734	18	7.8	80	7.4	1,350	14.7

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

Part 2 of 7

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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)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	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)
Apr 19...	47.0	17.6	8.36	220	238	220	268	<1	.93	225	.27	132	813

380907081323601 Local number Kan-0942—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 3 of 7

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Date	Residue on evap. at 180degC wat flt	Ammonia water, fltrd,	Ammonia water, fltrd, mg/L as N	Nitrite + nitrate water, fltrd, mg/L as N	Nitrite water, fltrd, mg/L as N	Organic nitrogen, water, unfltrd mg/L	Total nitrogen, wat unfltrd ysis, mg/L	Ortho-phosphate, water, fltrd, mg/L as P	Phosphorus, water, unfltrd mg/L	Hydrogen ion, water, fltrd, calcd, mg/L	Organic carbon, water, unfltrd mg/L	E coli, Defined Substr. Tech., water, MPN/ 100 mL	Fecal coli-form, M-FC 0.7u MF col/ 100 mL
	(70300)	(71846)	(00608)	(00631)	(00613)	(00605)	(62855)	(00671)	(00665)	(00191)	(00680)	(50468)	(31625)
Apr 19...	818	.09	.07	.16	<.008	.03	.26	<.006	E.004	.00004	3.2	<1	<1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 4 of 7

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Date	Total coli-form, Defined Tech., MPN/ 100 mL	Aluminum, water, unfltrd recover-able, ug/L	Antimony, water, unfltrd	Arsenic water, unfltrd ug/L	Barium, water, unfltrd recover-able, ug/L	Beryllium, water, unfltrd recover-able, ug/L	Cadmium water, unfltrd ug/L	Chromium, water, unfltrd recover-able, ug/L	Iron, water, unfltrd recover-able, ug/L	Lead, water, unfltrd recover-able, ug/L	Manganese, water, unfltrd recover-able, ug/L	Mercury water, unfltrd recover-able, ug/L	Nickel, water, unfltrd recover-able, ug/L
	(50569)	(01105)	(01097)	(01002)	(01007)	(01012)	(01027)	(01034)	(01045)	(01051)	(01055)	(71900)	(01067)
Apr 19...	4	E1	<.2	.50	51.9	<.06	<.04	.43	673	<.06	163	<.010	1.55

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 5 of 7

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Date	Selenium, water, unfltrd ug/L	Thallium, water, unfltrd ug/L	Zinc, water, unfltrd recover-able, ug/L	1,1,1-Tri-chloro-ethane, water, unfltrd ug/L	CFC-113 water, unfltrd ug/L	1,1-Di-chloro-ethane, water, unfltrd ug/L	1,1-Di-chloro-ethene, water, unfltrd ug/L	1,2-Di-chloro-benzene, water, unfltrd ug/L	1,2-Di-chloro-ethane, water, unfltrd ug/L	1,2-Di-chloro-propane, water, unfltrd ug/L	1,3-Di-chloro-benzene, water, unfltrd ug/L	1,4-Di-chloro-benzene, water, unfltrd ug/L	Benzene water, unfltrd ug/L
	(01147)	(01059)	(01092)	(34506)	(77652)	(34496)	(34501)	(34536)	(32103)	(34541)	(34566)	(34571)	(34030)
Apr 19...	1.4	<.18	E1	<.1	<.1	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 6 of 7

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Date	Bromo-di-chloro-methane water unfltrd ug/L (32101)	Chloro-benzene water unfltrd ug/L (34301)	cis-1,2-Di-chloro-ethene water unfltrd ug/L (77093)	Di-bromo-chloro-methane water unfltrd ug/L (32105)	Di-chloro-fluoro-methane wat unfltrd 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)
Apr 19...	<.1	<.1	<.1	<.2	<.2	<.2	<.2	<.2	<.1	<.2	<.2	<.1	<.1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 7 of 7

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Date	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)	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)
Apr 19...	<.1	<.2	<.1	<.2	<.1	<.1	<.2	<.1	<.2	<.1	<.2	40