



Water-Data Report 2007

**392504079065701 Local number Min-0174**

Undefined Aquifer  
 Monongahela Formation  
 Mineral County, WV

LOCATION.--Lat 39°25'04.0", long 79°06'57.1" referenced to North American Datum of 1983, Mineral County, WV, Hydrologic Unit 02070002.

**WATER-QUALITY RECORDS**

REMARKS.--During the period of April 25 to June 7, 2007, 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: Coal (05050009), Elk (05050007), Lower Kanawha (05050008), North Branch Potomac (02070002), and Tygart Valley (05020001). 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". The 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](mailto:dc_wv@usgs.gov). Data from 2006 can be found at: <http://web10capp.er.usgs.gov/imf/sites/adr06/launch2.jsp>.

**WATER-QUALITY DATA**

**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 1 of 7

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

Date	Time	Depth of well, feet below LSD (72008)	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, 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 25 degC (00095)	Temperature, deg C (00010)	Noncarbon hardness, wat unfltrd lab, mg/L as CaCO3 (00903)
May 15...	1045	1,000	2,040	>30	2.8	714	21	2.3	24	7.2	1,520	14.8	824

**WATER-QUALITY DATA**

**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

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)	ANC, wat unfltrd end pt, lab, mg/L as CaCO3 (90410)	Alkalinity, wat fltrd inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat fltrd incrm. titr., field, mg/L (00453)	Carbonate, wat fltrd 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 lab, mg/L (00500)
May 15...	286	68.3	6.96	4.8	172	204	249	<1	.04	7.61	.24	767	1,370

## 392504079065701 Local number Min-0174—Continued

## WATER-QUALITY DATA

## WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 3 of 7

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

Date	Residue on evap.	Ammonia	Nitrite + Nitrite	Total nitrogen	Ortho-phosphate	Hydrogen ion	E coli	Fecal coli	Total coli				
	at 180degC wat flt mg/L (70300)	Ammonia water, fltrd, mg/L (71846)	water, fltrd, mg/L as N (00608)	water, fltrd, mg/L as N (00631)	wat unfltrd, mg/L (62855)	water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd, mg/L (00191)	Organic carbon, water, unfltrd, mg/L (50468)	Substr. Tech., MPN/ 100 mL (31625)	M-FC col/ 100 mL (50569)			
May 15...	1,350	3.56	2.76	<.06	<.002	2.84	E.004	<.008	.00006	.9	<1	<1	<1

## WATER-QUALITY DATA

## WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 4 of 7

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

Date	Aluminum, water, unfltrd	Antimony, water, unfltrd	Arsenic, water, unfltrd	Barium, water, unfltrd	Beryllium, water, unfltrd	Cadmium, water, unfltrd	Chromium, water, unfltrd	Iron, water, unfltrd	Lead, water, unfltrd	Manganese, water, unfltrd	Mercury, water, unfltrd	Nickel, water, unfltrd	Selenium, water, unfltrd
	recoverable, µg/L (01105)	recoverable, µg/L (01097)	recoverable, µg/L (01002)	recoverable, µg/L (01007)	recoverable, µg/L (01012)	recoverable, µg/L (01027)	recoverable, µg/L (01034)	recoverable, µg/L (01045)	recoverable, µg/L (01051)	recoverable, µg/L (01055)	recoverable, µg/L (71900)	recoverable, µg/L (01067)	recoverable, µg/L (01147)
May 15...	E2	.3	.71	104	<.06	<.02	<.60	478	.51	445	<.010	3.4	.17

## WATER-QUALITY DATA

## WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 5 of 7

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

Date	Thallium, water, unfltrd	Zinc, water, unfltrd	1,1,1-Trichloroethane, water, unfltrd	CFC-113, water, unfltrd	1,1-Dichloroethane, water, unfltrd	1,1-Dichloroethene, water, unfltrd	1,2-Dichlorobenzene, water, unfltrd	1,2-Dichloroethane, water, unfltrd	1,2-Dichloropropane, water, unfltrd	1,3-Dichlorobenzene, water, unfltrd	1,4-Dichlorobenzene, water, unfltrd	Benzene, water, unfltrd	Bromodichloromethane, water, unfltrd
	µg/L (01059)	µg/L (01092)	µg/L (34506)	µg/L (77652)	µg/L (34496)	µg/L (34501)	µg/L (34536)	µg/L (32103)	µg/L (34541)	µg/L (34566)	µg/L (34571)	µg/L (34030)	µg/L (32101)
May 15...	<.18	4,080	<.1	<.1	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1

392504079065701 Local number Min-0174—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 6 of 7

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

Date	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)	o- Xylene, water, unfltrd µg/L (77135)	Styrene water, unfltrd µg/L (77128)	t-Butyl ethyl ether, water, unfltrd µg/L (50004)
May 15...	<.1	<.1	<.2	<.2	<.2	<.2	<.2	<.1	<.2	<.2	<.1	<.1	<.1

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 7 of 7

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

Date	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- bromo- methane water, unfltrd µg/L (32104)	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)
May 15...	<.2	<.1	<.2	.1	<.1	<.2	<.1	<.2	11.8	<.2	50