

Water-Data Report 2007

405200074571801 Local number 410265

 Piedmont and Blue Ridge crystalline-rock aquifers
 Precambrian Erathem

Warren County, NJ

LOCATION.--Lat 40°52'00", long 74°57'18" referenced to North American Datum of 1927, Liberty Township, Warren County, NJ, Hydrologic Unit 02040105, on Free Union Road.

WATER-QUALITY RECORDS

WELL CHARACTERISTICS.--Depth 135 ft. Upper casing diameter 10 in; top of first opening 69 ft, bottom of last opening 135 ft.

DATUM.--Land-surface datum is 760 ft above National Geodetic Vertical Datum of 1929. Measuring point: Undefined.

PERIOD OF RECORD.--Water years 1992, 2007.

REMARKS.--Middle Proterozoic Metasedimentary rock.

COOPERATION.--Water-quality samples were collected as part of the North New Jersey Radionuclide project, in cooperation with the New Jersey State Department of Environmental Protection.

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

Part 1 of 4

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

Date	Time	Sample type	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	Baro- metric pres- sure, mm Hg (00025)	pH, Dis- solved oxygen, mg/L (00300)	water, unfltrd field, std units (00400)	Specif- ic water, unf conduc- tance, μS/cm (00095)	Temper- ature, wat unf air, deg C (25 degC (00020)	Temper- ature, water, deg C (00010)	Temper- ature, water, deg C (00010)	Calcium water, fltrd, mg/L (00915)	ANC, wat unf fixed end pt, lab, mg/L as CaCO ₃ (90410)	Chlor- ide, water, fltrd, mg/L (00940)
Sep													
11...	1240	Environmental	.6	738	11.1	7.1	717	20.5	11.3	75.9	177	115	
11...	1240	Blank	--	--	--	--	--	--	--	--	--	--	
11...	1240	Replicate	--	--	--	--	--	--	--	--	--	--	
11...	1350	Treated water	.5	--	--	7.4	675	--	22.5	--	--	--	
11...	1350	Replicate	--	--	--	--	--	--	--	--	--	--	

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 2 of 4

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

Date	Silica, water, fltrd,		Ammonia water, fltrd, mg/L as N		Nitrate + nitrite water, fltrd, mg/L as N		Ortho-phosphate, water, fltrd, mg/L as N		E coli, Defined Substr.		Total coliform, Tech., MPN/100 mL		Arsen-ate, water, fltrd, µg/L as As		Arsen-ite, water, fltrd, µg/L as As		Barium, water, fltrd, µg/L		Iron, water, fltrd, µg/L	
	mg/L (00955)	mg/L (00945)	(00608)	(00631)	(00613)	(00671)	(50468)	(50569)	Tech., MPN/100 mL	(50468)	(50569)	(62453)	(01000)	(62452)	(01005)	(01046)	(01046)	(01046)		
Sep																				
11...	13.8	16.3	<.020	.94	<.002	.061	<1	E1	.6	.35	E.11	11.8	7							
11...	--	--	--	--	--	--	<1	<1	--	--	--	--	--	--	--	--	--			
11...	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
11...	--	--	--	--	--	--	<1	<1	--	--	--	--	--	--	--	--	--			
11...	--	--	--	--	--	--	<1	<1	--	--	--	--	--	--	--	--	--			

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 3 of 4

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

Date	Mangan-ese, water, fltrd,		Stront-ium, water, fltrd,		Alpha radioac 2-sigma		Alpha radioac mdc, 72 hr,		Alpha radioac 72 hr,		Ra-226 2-sigma		Ra-226 2-sigma		Ra-228 2-sigma		Ra-228, 2-sigma	
	µg/L (01056)	µg/L (01080)	pCi/L (62637)	pCi/L (62638)	Th-230, wat flt	Th-230, wat flt	Th-230, wat flt	Th-230, wat flt	Th-230, wat flt	Th-230, wat flt	water, gamma	MDC, count,	water, gamma	MDC, count,	water, gamma	MDC, count,	water, gamma	MDC, count,
Sep																		
11...	.3	103	.32	1.1	9	.550	.19	.510	E.18	.37	1.100	.00	140					
11...	--	--	.26	1.1	E.2	1.000	--	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	.32	1.1	8	--	.34	.510	E.21	--	--	--	--	--	--	--	--	--
11...	--	--	.32	1.1	8	2.000	.37	1.100	E.21	.82	2.000	<2.00	--	--	--	--	--	--
11...	--	--	.32	1.1	8	--	.34	.510	E.21	--	--	--	--	--	--	--	--	--

405200074571801 Local number 410265- Elem School—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 4 of 4

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

Date	Rn-222		Uranium	
	count- ing error, water, unfltrd pCi/L (82302)	Rn-222, water, fltrd, pCi/L (82305)	Rn-222, water, unfltrd pCi/L (82303)	natural water, fltrd, μg/L (22703)
Sep				
11...	1,400	28,200	23,100	15.1
11...	--	--	--	--
11...	--	--	--	--
11...	1,200	23,200	--	--
11...	--	--	--	--