



Water-Data Report 2008

40011075491801 Local number CH 4261

Piedmont and Blue Ridge crystalline-rock aquifers
 Felsic and Intermediate Gneiss, Amphibolite Facies
 Chester County, PA

LOCATION.--Lat 40°01'11", long 75°49'18" referenced to North American Datum of 1927, Chester County, PA, Hydrologic Unit 02040205.

WATER-QUALITY RECORDS

WELL CHARACTERISTICS.--Depth 100 ft. Upper casing diameter 6 in; top of first opening 88 ft, bottom of last opening 0 ft.

DATUM.--Land-surface datum is 503 ft above National Geodetic Vertical Datum of 1929. Measuring point: 1.50 ft above land-surface datum, Sep. 24, 2008, to present.

COOPERATION.--Well located and sampled by the U.S. Geological Survey in cooperation with the Chester County Water Resources Authority and Chester County Health Department.

REMARKS.--Well-water sample collected as part of the Chester County Groundwater-Quality Monitoring program. Five wells were sampled in residential areas with on-site waste-water disposal.

**WATER-QUALITY DATA
 WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 1 of 9

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

| Date | Time | Depth to water level, feet below LSD (72019) | Flow rate, instantaneous gal/min (00059) | Barometric pressure, mm Hg (00025) | Dissolved oxygen, mg/L (00300) | Dissolved oxygen, percent of saturation (00301) | pH, water, unfltrd field, std units (00400) | pH, water, unfltrd lab, std units (00403) | Specific conductance, wat unfltrd lab, 25 degC (90095) | Specific conductance, wat unfltrd lab, 25 degC (00095) | Temperature, air, deg C (00020) | Temperature, water, deg C (00010) | Calcium water, fltrd, mg/L (00915) |
|-----------|------|--|--|------------------------------------|--------------------------------|---|---|---|--|--|---------------------------------|-----------------------------------|------------------------------------|
| Sep 24... | 1400 | 32.68 | 6.7 | 770 | 7.9 | 74 | 6.7 | 6.8 | 194 | 192 | 20.0 | 12.7 | 22.8 |

**WATER-QUALITY DATA
 WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 2 of 9

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| Date | Magnesium, water, fltrd, mg/L (00925) | Potassium, water, fltrd, mg/L (00935) | Sodium, water, fltrd, mg/L (00930) | ANC, wat unfltrd pt, titr., mg/L as CaCO3 (00419) | Chloride, water, fltrd, mg/L (00940) | Fluoride, water, fltrd, mg/L (00950) | Silica, water, fltrd, mg/L as SiO2 (00955) | Sulfate, water, fltrd, mg/L (00945) | Ammonia, water, fltrd, mg/L as N (00608) | Nitrate + nitrite, water, fltrd, mg/L as N (00631) | Nitrite, water, fltrd, mg/L as N (00613) | Orthophosphate, water, fltrd, mg/L as P (00671) | Organic carbon, water, unfltrd, mg/L (00680) |
|-----------|---------------------------------------|---------------------------------------|------------------------------------|---|--------------------------------------|--------------------------------------|--|-------------------------------------|--|--|--|---|--|
| Sep 24... | 6.26 | 1.72 | 3.80 | 45 | 2.93 | <.12 | 15.4 | 14.7 | <.020 | 5.10 | <.002 | .012 | .4 |

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 3 of 9

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| Date | Arsenic water, fltrd, µg/L (01000) | Boron, water, fltrd, µg/L (01020) | Iron, water, fltrd, µg/L (01046) | Lithium water, fltrd, µg/L (01130) | Mangan- ese, water, fltrd, µg/L (01056) | 1,4-Di- chloro- benzene water, fltrd, µg/L (34572) | 1,7-Di- methyl- Xan- thine, water, fltrd, µg/L (62030) | 1- Methyl- naphth- alene, water, fltrd, µg/L (62054) | 2,6-Di- methyl- naphth- alene, water, fltrd, µg/L (62055) | 2- Methyl- naphth- alene, water, fltrd, µg/L (62056) | 3-beta- Copros- tanol, water, fltrd, µg/L (62057) | 3- Methyl- 1H- indole, water, fltrd, µg/L (62058) | 3-tert- Butyl- 4-hy- droxy- anisole wat flt µg/L (62059) |
|--------------|--|---|--|--|--|--|---|---|--|---|---|--|---|
| Sep 24... | <.06 | 9.6 | E4 | M | .8 | <.1 | <.100 | <.1 | <.1 | <.1 | <.1 | <.08 | <.6 |

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 4 of 9

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| Date | 4- Cumyl- phenol, water, fltrd, µg/L (62060) | 4-n- Octyl- phenol, water, fltrd, µg/L (62061) | 4- Nonyl- phenol, all isomers wat flt µg/L (62085) | 4-Nonyl -phenol di- ethox- ylate, wat flt µg/L (62083) | 4t-Octy lphenol di- ethox- ylate, wat flt µg/L (61705) | 4t-Octy lphenol mono- ethox- ylate, wat flt µg/L (61706) | 4-tert- Octyl- phenol, water, fltrd, µg/L (62062) | 5-Meth- yl-1H- benzo- azole, tri- azole, wat flt µg/L (62063) | 9,10- Anthra- quinone water, fltrd, µg/L (62066) | Acet- amino- phen, water, fltrd, µg/L (62000) | Aceto- phenone water, fltrd, µg/L (62064) | AHTN, water, fltrd, µg/L (62065) | Albut- erol, water, fltrd, µg/L (62020) |
|--------------|--|--|---|---|---|---|---|---|--|---|--|--|--|
| Sep 24... | <.1 | <.16 | <.1 | <.5 | <.1 | <.1 | <.1 | <.08 | <.2 | <.080 | <.4 | <.5 | <.040 |

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 5 of 9

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| Date | Anthra- cene, water, fltrd, µg/L (34221) | Benzo- [a]- pyrene, water, fltrd, µg/L (34248) | Benzo- phenone water, fltrd, µg/L (62067) | beta- Sitos- terol, water, fltrd, µg/L (62068) | beta- Stigmas- tanol, water, fltrd, µg/L (62086) | Bisphen- ol A-d3 sur Sch 2033 & 8033, wat flt % recvy (99583) | Broma- cil, water, fltrd, µg/L (04029) | Caf- feine, water, fltrd, µg/L (50305) | Caffe- ine-13C sur Sch 2033 & 8033, wat flt % recvy (99584) | Camphor water, fltrd, µg/L (62070) | Carbam- azepine water, fltrd, µg/L (62793) | Carba- maze- pine- -d10, surrog, wat flt % recvy (90797) | Car- baryl, water, fltrd 0.7u GF µg/L (82680) |
|--------------|---|--|--|--|--|--|---|---|--|--|---|---|---|
| Sep 24... | <.1 | <.1 | <.1 | <.2 | <.1 | 3.3 | <.4 | <.1 | 85.1 | <.1 | <.040 | 85.1 | <.1 |

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WATER-QUALITY DATA
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Part 6 of 9

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

| Date | Carba- zole, water, fltrd, µg/L (62071) | Chlor- pyrifos water, fltrd, µg/L (38933) | Choles- terol, water, fltrd, µg/L (62072) | Codeine water, fltrd, µg/L (62003) | Cot- inine, water, fltrd, µg/L (62005) | DecaF- biphen- sur Sch 2033 & 8033, wat flt % recvy (99585) | DEET, water, fltrd, µg/L (62082) | De- hydro- nife- dipine, water, fltrd, µg/L (62004) | Diazi- non, water, fltrd, µg/L (39572) | Diltia- zem, water, fltrd, µg/L (62008) | Diphen- hydra- mine, water, fltrd, µg/L (62796) | D-Limo- nene, water, fltrd, µg/L (62073) | Ethyl nico- tinate- d4, surrog, wat flt % recvy (99571) |
|--------------|--|--|--|--|---|--|--|--|---|--|---|---|--|
| Sep 24... | <.1 | <.1 | <1 | <.040 | <.026 | 43.9 | <.1 | <.060 | <.1 | <.040 | <.050 | <.04 | 99.4 |

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| Date | Fluor- anthene water, fltrd, µg/L (34377) | Fluor- anthene -d10, sur Sch 20/8033 wat flt % recvy (99586) | HHCB, water, fltrd, µg/L (62075) | Indole, water, fltrd, µg/L (62076) | Isobor- neol, water, fltrd, µg/L (62077) | Iso- phorone water, fltrd, µg/L (34409) | Iso- propyl- benzene water, fltrd, µg/L (62078) | Iso- quin- oline, water, fltrd, µg/L (62079) | Menthol water, fltrd, µg/L (62080) | Meta- laxyl, water, fltrd, µg/L (50359) | Methyl salicy- late, water, fltrd, µg/L (62081) | Metola- chlor, water, fltrd, µg/L (39415) | Naphth- alene, water, fltrd, µg/L (34443) |
|--------------|--|---|--|--|---|--|---|--|--|--|---|--|--|
| Sep 24... | <.1 | 90.9 | <.5 | <.1 | <.1 | M | <.1 | <.2 | <.2 | <.1 | <.1 | <.1 | <.1 |

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| Date | p- Cresol, water, fltrd, µg/L (62084) | Phenan- threne, water, fltrd, µg/L (34462) | Phenol, water, fltrd, µg/L (34466) | Prome- ton, water, fltrd, µg/L (04037) | Pyrene, water, fltrd, µg/L (34470) | Sulfa- methox- azole, water, fltrd, µg/L (62021) | Tetra- chloro- ethene, water, fltrd, µg/L (34476) | Thiaben- dazole, water, fltrd, µg/L (62801) | Tri- bromo- methane water, fltrd, µg/L (34288) | Tri- butyl phos- phate, water, fltrd, µg/L (62089) | Triclo- san, water, fltrd, µg/L (62090) | Tri- ethyl citrate water, fltrd, µg/L (62091) | Tri- meth- oprim, water, fltrd, µg/L (62023) |
|--------------|--|---|--|---|--|--|---|--|--|---|--|---|--|
| Sep 24... | <.18 | <.1 | <.2 | <.2 | <.1 | <.100 | <.1 | <.100 | <.1 | <.2 | <.2 | <.2 | <.040 |

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| Date | Tri-phenyl phosphate, water, fltrd, µg/L (62092) | Tris(2-butoxyethyl) phosphate, wat flt µg/L (62093) | Tris(2-chloroethyl) phosphate, wat flt µg/L (62087) | Tris(di-chloro-i-Pr) phosphate, wat flt µg/L (62088) | Warfarin, water, fltrd, µg/L (62024) |
|------------|--|---|---|--|--------------------------------------|
| Sep | | | | | |
| 24... | <.1 | <.4 | <.1 | <.1 | <.060 |