Water-Data Report 2009

# 401738078194301 Local number BA 645

Valley and Ridge aquifers
Axemann, Bellefonte Formations

Blair County, PA

LOCATION.--Lat 40°17′38″, long 78°19′43″ referenced to North American Datum of 1983, Blair County, PA, Hydrologic Unit 02050302.

## WATER-QUALITY RECORDS

WELL CHARACTERISTICS.--Depth 207 ft. Upper casing diameter 6 in; top of first opening 60 ft, bottom of last opening 207 ft. Open hole, cased to 60 ft.

DATUM.--Land-surface datum is 1,420 ft above National Geodetic Vertical Datum of 1929. Measuring point: top of casing, 0.86 ft above land-surface datum, Sep. 1, 2005, to present.

COOPERATION.--Samples were collected by the U.S. Geological Survey in cooperation with the Pennsylvania Department of Agriculture.

REMARKS.--Measurements of pH, water temperature, specific conductance, dissolved oxygen, barometric pressure, air temperature, and static water level were performed on site as well as titrations for acid-neutralizing capacity and bicarbonate alkalinity. Medium code explanation: WG=ground water.

**WATER-QUALITY DATA**
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**
Part 1 of 6
[Remark codes: <, less than; E, estimated.]

| Date | Time | Medium code | Barometric pressure, mm Hg (00025) | Temperature, air, deg C (00020) | Depth to water level, feet below LSD (72019) | Dissolved oxygen, mg/L (00300) | Dissolved oxygen, percent of saturation (00301) | pH, water, unfltrd field, std units (00400) | Specific conductance, wat unf µS/cm @ 25 degC (00095) | Temperature, water, deg C (00010) | alpha-HCH-d6, surrog, wat flt 0.7µ GF percent recovry (91065) | Diazinon-d10 surrog. wat flt 0.7µ GF percent recovry (91063) | ANC, wat unf infl pt titr., field, mg/L as CaCO3 (00419) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **May** | | | | | | | | | | | | | |
| **27...** | 1155 | WG | 724 | 14.6 | 39.68 | 3.4 | 33 | 7.1 | 1,070 | 11.1 | 96.9 | 95.4 | 259 |

**WATER-QUALITY DATA**
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**
Part 2 of 6
[Remark codes: <, less than; E, estimated.]

| Date | Bicarbonate, wat unf infl pt titr., field, mg/L (00450) | 2,6-Diethylaniline water, fltrd 0.7µ GF µg/L (82660) | CIAT, water, fltrd, µg/L (04040) | Acetochlor, water, fltrd, µg/L (49260) | Alachlor, water, fltrd, µg/L (46342) | alpha-HCH, water, fltrd, µg/L (34253) | Atrazine, water, fltrd, µg/L (39632) | Azinphosmethyl, water, fltrd 0.7µ GF µg/L (82686) | Benfluralin, water, fltrd 0.7µ GF µg/L (82673) | Butylate, water, fltrd, µg/L (04028) | Carbaryl, water, fltrd 0.7µ GF µg/L (82680) | Carbofuran, water, fltrd 0.7µ GF µg/L (82674) | Chlorpyrifos water, fltrd, µg/L (38933) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **May** | | | | | | | | | | | | | |
| **27...** | 316 | <.006 | E.099 | <.010 | <.008 | <.008 | .053 | <.120 | <.014 | <.002 | <.200 | <.060 | <.010 |

**401738078194301 Local number BA 645—Continued**

**WATER-QUALITY DATA**
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**
Part 3 of 6
[Remark codes: <, less than; E, estimated.]

| Date | cis-Permethrin water fltrd 0.7µ GF µg/L (82687) | Cyanazine, water, fltrd, µg/L (04041) | DCPA, water, fltrd 0.7µ GF µg/L (82682) | Desulfinyl-fipronil amide, wat flt µg/L (62169) | Desulfinyl-fipronil, water, fltrd, µg/L (62170) | Diazinon, water, fltrd, µg/L (39572) | Dieldrin, water, fltrd, µg/L (39381) | Disulfoton, water, fltrd 0.7µ GF µg/L (82677) | EPTC, water, fltrd 0.7µ GF µg/L (82668) | Ethalfluralin, water, fltrd 0.7µ GF µg/L (82663) | Ethoprop, water, fltrd 0.7µ GF µg/L (82672) | Fipronil sulfide water, fltrd, µg/L (62167) | Fipronil sulfone water, fltrd, µg/L (62168) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **May 27...** | <.014 | <.040 | <.006 | <.029 | <.012 | <.005 | <.009 | <.04 | <.002 | <.009 | <.016 | <.013 | <.024 |

**WATER-QUALITY DATA**
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**
Part 4 of 6
[Remark codes: <, less than; E, estimated.]

| Date | Fipronil, water, fltrd, µg/L (62166) | Fonofos water, fltrd, µg/L (04095) | Lindane water, fltrd, µg/L (39341) | Linuron water, fltrd 0.7µ GF µg/L (82666) | Malathion, water, fltrd, µg/L (39532) | Methyl parathion, water, fltrd 0.7µ GF µg/L (82667) | Metolachlor, water, fltrd, µg/L (39415) | Metribuzin, water, fltrd, µg/L (82630) | Molinate, water, fltrd 0.7µ GF µg/L (82671) | Napropamide, water, fltrd 0.7µ GF µg/L (82684) | p,p'-DDE, water, fltrd, µg/L (34653) | Parathion, water, fltrd, µg/L (39542) | Pebulate, water, fltrd 0.7µ GF µg/L (82669) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **May 27...** | <.040 | <.010 | <.014 | <.060 | <.020 | <.008 | E.010 | <.016 | <.002 | <.018 | <.003 | <.020 | <.016 |

**WATER-QUALITY DATA**
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**
Part 5 of 6
[Remark codes: <, less than; E, estimated.]

| Date | Pendimethalin, water, fltrd 0.7µ GF µg/L (82683) | Phorate water, fltrd 0.7µ GF µg/L (82664) | Prometon, water, fltrd, µg/L (04037) | Propachlor, water, fltrd, µg/L (04024) | Propanil, water, fltrd 0.7µ GF µg/L (82679) | Propargite, water, fltrd 0.7µ GF µg/L (82685) | Propyzamide, water, fltrd 0.7µ GF µg/L (82676) | Simazine, water, fltrd, µg/L (04035) | Tebuthiuron water, fltrd 0.7µ GF µg/L (82670) | Terbacil, water, fltrd 0.7µ GF µg/L (82665) | Terbufos, water, fltrd 0.7µ GF µg/L (82675) | Thiobencarb water, fltrd 0.7µ GF µg/L (82681) | Triallate, water, fltrd 0.7µ GF µg/L (82678) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **May 27...** | <.012 | <.020 | .02 | <.012 | <.014 | <.02 | <.004 | .011 | <.02 | <.040 | <.02 | <.016 | <.006 |

**401738078194301 Local number BA 645—Continued**

**WATER-QUALITY DATA WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**
Part 6 of 6
[Remark codes: <, less than; E, estimated.]

| Date | Trifluralin, water, fltrd 0.7µ GF µg/L (82661) |
|---|---|
| **May 27...** | <.012 |

**WATER-QUALITY DATA WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**
Part 1 of 6
[Remark codes: <, less than.]

| Date | Time | Medium code | Barometric pressure, mm Hg (00025) | Temperature, air, deg C (00020) | Depth to water level, feet below LSD (72019) | Dissolved oxygen, mg/L (00300) | Dissolved oxygen, percent of saturation (00301) | pH, water, unfltrd field, std units (00400) | Specific conductance, wat unf µS/cm @ 25 degC (00095) | Temperature, water, deg C (00010) | ANC, wat unf infl pt titr., field, mg/L as CaCO3 (00419) | Bicarbonate, wat unf infl pt titr., field, mg/L (00450) | 2-[(2-Ethyl-6methyl phenyl) amino]2 oxoESA µg/L (62850) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **May 27...** | 1150 | WG | 724 | 14.6 | 39.68 | 3.4 | 33 | 7.1 | 1,070 | 11.1 | 259 | 316 | .03 |

**WATER-QUALITY DATA WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**
Part 2 of 6
[Remark codes: <, less than.]

| Date | ClAT, water, fltrd, µg/L (04040) | CEAT, water, fltrd, µg/L (04038) | OIAT, water, fltrd 0.7µ GF µg/L (62676) | OIET, water, fltrd, µg/L (50355) | OEAT, water, fltrd 0.7µ GF µg/L (62678) | Acetochlor ESA, water, fltrd 0.7µ GF µg/L (61029) | Acetochlor OA, water, fltrd 0.7µ GF µg/L (61030) | Acetochlor SAA, water, fltrd, µg/L (62847) | Acetochlor, water, fltrd, µg/L (49260) | Alachlor ESA SA, water, fltrd, µg/L (62849) | Alachlor ESA, water, fltrd 0.7µ GF µg/L (50009) | Alachlor OA, water, fltrd 0.7µ GF µg/L (61031) | Alachlor SAA, water, fltrd, µg/L (62848) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **May 27...** | .070 | <.025 | <.025 | <.025 | <.025 | <.02 | <.02 | <.02 | <.02 | <.02 | .13 | <.02 | <.02 |

**401738078194301 Local number BA 645—Continued**

**WATER-QUALITY DATA**
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**
Part 3 of 6
[Remark codes: <, less than.]

| Date | Alachlor, water, fltrd, µg/L (46342) | Atrazine, water, fltrd, µg/L (39632) | Bromacil, water, fltrd, µg/L (04029) | Chloro-di-amino-s-tri-azine, wat flt µg/L (04039) | Cyanazine acid, water, wat flt µg/L (61745) | Cyanazine amide, water, fltrd, µg/L (61709) | Cyanazine, water, fltrd, µg/L (04041) | Dechloroacetochlor, water, fltrd, µg/L (63778) | Dechloroalachlor, water, fltrd, µg/L (63777) | Dechlorodimethenamid, water, fltrd, µg/L (63779) | Dechlorometolachlor, water, fltrd, µg/L (63780) | Deethyl cyanazine acid, wat flt µg/L (61750) | Deethyl cyanazine amide, wat flt µg/L (61751) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **May** | | | | | | | | | | | | | |
| **27...** | <.02 | .030 | <.025 | .100 | <.025 | <.025 | <.025 | <.02 | <.02 | <.02 | <.02 | <.025 | <.025 |

**WATER-QUALITY DATA**
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**
Part 4 of 6
[Remark codes: <, less than.]

| Date | Deethyl cyanazine, water, fltrd, µg/L (61749) | Demethyl fluometuron water, fltrd, µg/L (61755) | Dimethenamid ESA, water, fltrd, µg/L (61951) | Dimethenamid OA, water, fltrd, µg/L (62482) | Dimethenamid water, fltrd, µg/L (61588) | Diuron, water, fltrd, µg/L (50374) | Flufenacet ESA, water, fltrd, µg/L (61952) | Flufenacet OA, water, fltrd, µg/L (62483) | Flufenacet, water, fltrd, µg/L (62481) | Fluometuron water, fltrd 0.7µ GF µg/L (38811) | Hydroxy acetochlor, water, fltrd, µg/L (63784) | Hydroxy alachlor, water, fltrd, µg/L (63783) | Hydroxy dimethenamid, water, fltrd, µg/L (64045) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **May** | | | | | | | | | | | | | |
| **27...** | <.20 | <.2 | <.02 | <.02 | <.02 | <.2 | <.02 | <.02 | <.02 | <.2 | <.02 | <.02 | <.02 |

**WATER-QUALITY DATA**
**WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**
Part 5 of 6
[Remark codes: <, less than.]

| Date | Hydroxy metolachlor, water, fltrd, µg/L (63785) | Hydroxysimazine, water, fltrd, µg/L (63154) | Linuron water, fltrd 0.7µ GF µg/L (38478) | Metolachlor ESA, water, fltrd 0.7µ GF µg/L (61043) | Metolachlor OA, water, fltrd 0.7µ GF µg/L (61044) | Metolachlor, water, fltrd, µg/L (39415) | Prometon, water, fltrd, µg/L (04037) | Propachlor ESA, water, fltrd 0.7µ GF µg/L (62766) | Propachlor OA, water, fltrd 0.7µ GF µg/L (62767) | Propachlor, water, fltrd, µg/L (04024) | Propazine, water, fltrd, µg/L (38535) | Simazine, water, fltrd, µg/L (04035) | Alachlor 2nd amide, water, fltrd, µg/L (63781) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **May** | | | | | | | | | | | | | |
| **27...** | <.02 | <.025 | <.2 | 1.27 | .17 | <.02 | <.025 | <.05 | <.02 | <.02 | <.025 | <.025 | <.02 |

**401738078194301 Local number BA 645—Continued**

**WATER-QUALITY DATA WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**
Part 6 of 6
[Remark codes: <, less than.]

| Date | Acetochlor 2nd amide, water, fltrd, µg/L (63782) |
|---|---|
| **May** | |
| **27...** | <.02 |