



Water-Data Report 2007

**410033074544701 Local number 410459- MW96**

Other aquifers  
Allentown Dolomite  
Warren County, NJ

LOCATION.--Lat 41°00'33", long 74°54'47" referenced to North American Datum of 1927, Hardwick Township, Warren County, NJ, Hydrologic Unit 02040105.

**WATER-QUALITY RECORDS**

WELL CHARACTERISTICS.--Depth 100 ft. Upper casing diameter 2 in; top of first opening 75 ft, bottom of last opening 100 ft.

DATUM.--Land-surface datum is 495 ft above National Geodetic Vertical Datum of 1929. Measuring point: Undefined.

PERIOD OF RECORD.--Water years 2003, 2007.

REMARKS.--New Jersey Department of Environmental Protection Watershed Management Area 1. Agricultural Land Use Indicator.

COOPERATION.--Physical measurements and samples for laboratory analysis were collected in cooperation with the New Jersey Department of Environmental Protection.

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

Part 1 of 13

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

Date	Time	Depth to water level, feet below LSD (72019)	Flow rate, instantaneous gal/min (00059)	Pump or flow period prior to sampling, minutes (72004)	Turbidity white light, 90+/-30 corrctd NTRU (63676)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, unfltrd field, std units (00400)	Specific conductance, µS/cm 25 degC (00095)	Temperature, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)
Jul 24...	1040	24.60	.70	71	2.6	758	5.0	45	7.2	611	11.2	310	64.8

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

Part 2 of 13

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

Date	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate, water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia water, fltrd, mg/L as N (00608)
Jul 24...	36.6	1.10	4.71	305	372	8.51	E.05	6.0	21.3	329	315	<.10	<.020

410033074544701 Local number 410459- MW96—Continued

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

Part 3 of 13

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

Date	Nitrate + nitrite water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Organic carbon, water, fltrd, mg/L (00681)	Aluminum, water, fltrd, µg/L (01106)	Anti-mony, water, fltrd, µg/L (01095)	Arsenic, water, fltrd, µg/L (01000)	Barium, water, fltrd, µg/L (01005)	Beryllium, water, fltrd, µg/L (01010)	Boron, water, fltrd, µg/L (01020)	Cadmium, water, fltrd, µg/L (01025)	Chromium, water, fltrd, µg/L (01030)	Copper, water, fltrd, µg/L (01040)
Jul 24...	.55	<.002	E.004	E.4	<1.6	<.06	<.12	14	<.06	E7	<.04	.27	<.40

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

Part 4 of 13

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

Date	Iron, water, fltrd, µg/L (01046)	Lead, water, fltrd, µg/L (01049)	Manganese, water, fltrd, µg/L (01056)	Mercury, water, fltrd, µg/L (71890)	Nickel, water, fltrd, µg/L (01065)	Selenium, water, fltrd, µg/L (01145)	Silver, water, fltrd, µg/L (01075)	Thallium, water, fltrd, µg/L (01057)	Zinc, water, fltrd, µg/L (01090)	1-Naphthol, water, fltrd, 0.7u GF µg/L (49295)	2,6-Diethyl-aniline, water, fltrd, 0.7u GF µg/L (82660)	2Chloro-2',6'-diethyl acet-anilide, wat flt µg/L (61618)	CIAT, water, fltrd, µg/L (04040)
Jul 24...	<6	<.12	E.1	E.007	.30	.09	<.1	<.04	1.6	<.09	<.006	<.006	E.027

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

Part 5 of 13

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

Date	2-Ethyl-6-methyl-aniline, water, fltrd, µg/L (61620)	3,4-Di-chloro-aniline, water, fltrd, µg/L (61625)	3,5-Di-chloro-aniline, water, fltrd, µg/L (61627)	4-Chloro-2methyl phenol, water, fltrd, µg/L (61633)	Aceto-chlor, water, fltrd, µg/L (49260)	Ala-chlor, water, fltrd, µg/L (46342)	alpha-Endo-sulfan, water, fltrd, µg/L (34362)	Atra-zine, water, fltrd, µg/L (39632)	Azin-phos-methyl oxon, water, fltrd, µg/L (61635)	Azin-phos-methyl, water, fltrd, 0.7u GF µg/L (82686)	Ben-flur-alin, water, fltrd, 0.7u GF µg/L (82673)	Carbaryl, water, fltrd, 0.7u GF µg/L (82680)	Carbo-furan, water, fltrd, 0.7u GF µg/L (82674)
Jul 24...	<.010	<.004	<.012	<.005	<.006	<.005	<.011	.016	<.04	<.080	<.010	<.060	<.020

410033074544701 Local number 410459- MW96—Continued

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

Part 6 of 13

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

Date	Chlor-pyrifos oxon, water, fltrd, µg/L (61636)	Chlor-pyrifos water, fltrd, µg/L (38933)	cis-Permethrin water, fltrd, 0.7u GF µg/L (82687)	cis-Propiconazole, water, fltrd, µg/L (79846)	Cyana-zine, water, fltrd, µg/L (04041)	Cyflu-thrin, water, fltrd, µg/L (61585)	lambda-Cyhalo-thrin, water, fltrd, µg/L (61595)	Cyper-methrin water, fltrd, µg/L (61586)	DCPA, water, fltrd, 0.7u GF µg/L (82682)	Desulf-inyl-fipro-nil, water, fltrd, µg/L (62170)	Diazi-non, water, fltrd, µg/L (39572)	Dicro-tophos, water, fltrd, µg/L (38454)	Diel-drin, water, fltrd, µg/L (39381)
Jul 24...	<.06	<.005	<.010	<.013	<.018	<.053	<.014	<.046	<.003	<.012	<.005	<.08	<.009

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

Part 7 of 13

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

Date	Dimeth-oate, water, fltrd, 0.7u GF µg/L (82662)	Disulf-oton sulfone water, fltrd, µg/L (61640)	Disul-foton, water, fltrd, 0.7u GF µg/L (82677)	Endo-sulfan sulfate, water, fltrd, µg/L (61590)	EPTC, water, fltrd, 0.7u GF µg/L (82668)	Ethion monoxon water, fltrd, µg/L (61644)	Ethion water, fltrd, µg/L (82346)	Etho-prop, water, fltrd, 0.7u GF µg/L (82672)	Fenami-phos sulfone water, fltrd, µg/L (61645)	Fenami-phos sulf-oxide, water, fltrd, µg/L (61646)	Fenami-phos, water, fltrd, µg/L (61591)	Desulf-inyl-fipro-nil amide, wat flt µg/L (62169)	Fipro-nil sulfide water, fltrd, µg/L (62167)
Jul 24...	<.006	<.01	<.02	<.022	<.002	<.02	<.016	<.012	<.053	<.04	<.03	<.029	<.013

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

Part 8 of 13

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

Date	Fipro-nil sulfone water, fltrd, µg/L (62168)	Fipro-nil, water, fltrd, µg/L (62166)	Fonofos water, fltrd, µg/L (04095)	Hexa-zinone, water, fltrd, µg/L (04025)	Ipro-dione, water, fltrd, µg/L (61593)	Isofen-phos, water, fltrd, µg/L (61594)	Mala-oxon, water, fltrd, µg/L (61652)	Mala-thion, water, fltrd, µg/L (39532)	Meta-laxyl, water, fltrd, µg/L (61596)	Methi-althion water, fltrd, µg/L (61598)	Methyl para-oxon, water, fltrd, µg/L (61664)	Methyl para-thion, water, fltrd, 0.7u GF µg/L (82667)	Metola-chlor, water, fltrd, µg/L (39415)
Jul 24...	<.024	<.016	<.006	<.026	<.026	<.011	<.039	<.016	<.007	<.009	<.02	<.008	<.010

410033074544701 Local number 410459- MW96—Continued

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

Part 9 of 13

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

Date	Metri- buzin, water, fltrd, µg/L (82630)	Moli- nate, water, fltrd, 0.7u GF µg/L (82671)	Myclo- butanil water, fltrd, µg/L (61599)	Oxy- fluor- fen, water, fltrd, µg/L (61600)	Pendi- meth- alin, water, fltrd, 0.7u GF µg/L (82683)	Phorate oxon, water, fltrd, µg/L (61666)	Phorate water, fltrd, 0.7u GF µg/L (82664)	Phosmet oxon, water, fltrd, µg/L (61668)	Phosmet water, fltrd, µg/L (61601)	Prome- ton, water, fltrd, µg/L (04037)	Prome- tryn, water, fltrd, µg/L (04036)	Propy- zamide, water, fltrd, 0.7u GF µg/L (82676)	Pro- panil, water, fltrd, 0.7u GF µg/L (82679)
Jul 24...	<.012	<.003	<.033	<.017	<.020	<.03	<.020	<.05	<.008	<.01	<.006	<.004	<.011

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

Part 10 of 13

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

Date	Propar- gite, water, fltrd, 0.7u GF µg/L (82685)	Sima- zine, water, fltrd, µg/L (04035)	Tebu- thiuron water, fltrd, 0.7u GF µg/L (82670)	Teflu- thrin, water, fltrd, µg/L (61606)	Ter- bufos sulfone water, fltrd, µg/L (61674)	Terbu- fos, water, fltrd, 0.7u GF µg/L (82675)	Ter- buthyl- azine, water, fltrd, µg/L (04022)	Thio- bencarb water, fltrd, 0.7u GF µg/L (82681)	trans- Propi- cona- zole, water, fltrd, µg/L (79847)	Tribu- phos, water, fltrd, µg/L (61610)	Tri- flur- alin, water, fltrd, 0.7u GF µg/L (82661)	1,1,1- Tri- chloro- ethane, unfltrd µg/L (34506)	CFC-113 water, unfltrd µg/L (77652)
Jul 24...	<.02	E.005	<.02	<.003	<.04	<.01	<.01	<.010	<.03	<.035	<.009	<.1	<.1

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

Part 11 of 13

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

Date	1,1-Di- chloro- ethane, water, unfltrd µg/L (34496)	1,1-Di- chloro- ethene, water, unfltrd µg/L (34501)	1,2-Di- chloro- benzene water, unfltrd µg/L (34536)	1,2-Di- chloro- ethane, water, unfltrd µg/L (32103)	1,2-Di- chloro- propane water, unfltrd µg/L (34541)	1,3-Di- chloro- benzene water, unfltrd µg/L (34566)	1,4-Di- chloro- benzene water, unfltrd µg/L (34571)	Benzene water, unfltrd µg/L (34030)	Bromo- di- chloro- methane water, unfltrd µg/L (32101)	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)
Jul 24...	<.1	<.1	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.2

410033074544701 Local number 410459- MW96—Continued

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

Part 12 of 13

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

Date	Di-chloro-methane	Di-ethyl ether,	Diiso-propyl ether,	Ethyl-benzene	Methyl tert-pentyl ether,	meta- + para-Xylene,	o-Xylene,	Styrene	t-Butyl ethyl ether,	Methyl t-butyl ether,	Tetra-chloro-ethene,	Tetra-chloro-methane	Toluene
	water, unfltrd	water, unfltrd	water, unfltrd	water, unfltrd	water, unfltrd	water, unfltrd	water, unfltrd	water, unfltrd	water, unfltrd	water, unfltrd	water, unfltrd	water, unfltrd	water, unfltrd
	µg/L (34423)	µg/L (81576)	µg/L (81577)	µg/L (34371)	µg/L (50005)	µg/L (85795)	µg/L (77135)	µg/L (77128)	µg/L (50004)	µg/L (78032)	µg/L (34475)	µg/L (32102)	µg/L (34010)
<b>Jul</b>													
24...	<.2	<.2	<.2	<.1	<.2	<.2	<.1	<.1	<.1	<.2	<.1	<.2	<.1

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

Part 13 of 13

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

Date	trans-1,2-Di-chloro-ethene,	Tri-bromo-methane	Tri-chloro-ethene,	Tri-chloro-fluoro-methane	Tri-chloro-methane	Vinyl chlor-ide,	Di-chlor-ovos,	Alpha radioac 30 day,	Alpha radioac 72 hr,	Beta radioac 30 day,	Beta radioac 72 hr,
	water, unfltrd	water, unfltrd	water, unfltrd	water, unfltrd	water, unfltrd	water, unfltrd	water, fltrd,	wat flt Th-230,	wat flt Th-230,	wat flt Cs-137,	wat flt Cs-137,
	µg/L (34546)	µg/L (32104)	µg/L (39180)	µg/L (34488)	µg/L (32106)	µg/L (39175)	µg/L (38775)	pCi/L (62639)	pCi/L (62636)	pCi/L (62645)	pCi/L (62642)
<b>Jul</b>											
24...	<.1	<.2	<.1	<.2	<.1	<.2	<.01	-.9	-.2	1.3	.4