

## Water-Data Report 2007

**403537074394401 Local number 350142- MW123**

 Early Mesozoic basin aquifers  
 Passaic Formation

Somerset County, NJ

LOCATION.--Lat 40°35'37", long 74°39'44" referenced to North American Datum of 1927, Bridgewater Township, Somerset County, NJ, Hydrologic Unit 02030105.

**WATER-QUALITY RECORDS**

WELL CHARACTERISTICS.--Depth 76.5 ft. Upper casing diameter 2 in; top of first opening 51.5 ft, bottom of last opening 76.5 ft.

DATUM.--Land-surface datum is 110 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 8. Urban 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: &lt;, less than; E, estimated.]

Date	Time	Depth to water level, feet below	Pump or flow rate, instantaneous	Turbidity white light, Barometric pressure, corrected	Disolved oxygen, percent of saturation	pH, water, unfltrd field, std units	Specific conductance, $\mu\text{S}/\text{cm}$	Temperature, wat unf	Hardness, water, mg/L as CaCO <sub>3</sub>	Calcium water, mg/L			
	LSD (72019)	Flow period	Flow rate, gal/min	Barometric pressure, mm Hg	Disolved oxygen, mg/L	pH, water, unfltrd field, std units	Specific conductance, $\mu\text{S}/\text{cm}$	Temperature, deg C	Water, mg/L	CaCO <sub>3</sub> , mg/L			
Jul 02...	1050	57.30	.30	80	3.2	774	5.1	49	7.1	1,720	13.9	710	207

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

Part 2 of 13

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

Date	Magnesium, water, filtrd, mg/L (00925)	Potassium, water, filtrd, mg/L (00935)	Sodium, water, filtrd, mg/L (00930)	Alkalinity, wat flt inc tit	Bicarbonate, wat flt incr.	Chloride, titr., field, mg/L (00453)	Fluoride, water, field, mg/L (00940)	Silica, water, filtrd, mg/L (00950)	Sulfate, water, filtrd, mg/L (00945)	Residue sum of constituents, mg/L (70301)	Residue at 180degC, mg/L (70300)	Ammonia, water, evap. + water, filtrd, mg/L (00623)	Ammonia, water, filtrd, mg/L (00608)
Jul 02...	46.0	1.43	31.4	158	193	431	E.06	21.6	23.2	882	1,070	E.07	<.020

**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)	Alum- inum, water, fltrd, µg/L (01106)	Anti- mony, water, fltrd, µg/L (01095)	Arsenic water, fltrd, µg/L (01000)	Barium, water, fltrd, µg/L (01005)	Beryll- ium, water, fltrd, µg/L (01010)	Boron, water, fltrd, µg/L (01020)	Cadmium water, fltrd, µg/L (01025)	Chrom- ium, water, fltrd, µg/L (01030)	Copper, water, fltrd, µg/L (01040)
Jul 02...	5.30	<.002	.026	1.1	1.8	<.06	.52	884	<.06	32	<.04	.88	.52

**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)	Mangan- ese, water, fltrd, µg/L (01056)	Mercury water, fltrd, µg/L (71890)	Nickel, water, fltrd, µg/L (01065)	Selen- ium, water, fltrd, µg/L (01145)	Silver, water, fltrd, µg/L (01075)	Thall- ium, water, fltrd, µg/L (01057)	Zinc, water, fltrd, µg/L (01090)	1-Naph- thol, water, fltrd, 0.7u GF (49295)	2,6-Di- ethyl- aniline water, fltrd, 0.7u GF (82660)	2-Chloro- -2',6'- diethyl acet- anilide water, fltrd, 0.7u GF (61618)	CIAT, water, fltrd, µg/L (04040)
Jul 02...	11	<.12	.4	<.010	1.1	1.4	<.1	<.04	2.0	<.09	<.006	<.006	E.006

**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- 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, water, fltrd, 0.7u GF (61635)	Azin- phos- methyl, water, fltrd, 0.7u GF (82686)	Ben- flur- alin, water, fltrd, 0.7u GF (82673)	Car- baryl, water, fltrd, 0.7u GF (82680)	Carbo- furan, water, fltrd, 0.7u GF (82674)
Jul 02...	<.010	<.004	<.012	<.005	<.006	<.005	<.011	<.007	<.04	<.080	<.010	<.060	<.020

**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-Per-methrin water 0.7u GF μg/L (82687)	cis-Propi-conazole, water, fltrd, μg/L (79846)	Cyana-zine, water, fltrd, μg/L (04041)	Cyflu-thrin, water, fltrd, μg/L (61585)	lambda-Cyhalothrin, 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)	Dicrop-tophos, water, fltrd, μg/L (38454)	Diel-drin, water, fltrd, μg/L (39381)
Jul 02...	<.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 Ethion water, fltrd, μg/L (82346)	Etho-prop, water, fltrd, 0.7u GF μg/L (82672)	Fenami-phos sulf-oxide, 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 water, amide, wat flt μg/L (62169)	Fipro-nil sulfide water, fltrd, μg/L (62167)
Jul 02...	<.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-paraoxon, water, fltrd, μg/L (61664)	Methyl-para-thion, water, fltrd, μg/L (82667)	Metola-chlor, water, fltrd, μg/L (39415)
Jul 02...	<.024	<.016	<.006	<.026	<.026	<.011	<.039	<.016	<.007	<.009	<.02	<.008	<.010

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

Part 9 of 13

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

Date	Metri-	Moli-	Oxy-	Pendi-					Propy-	Pro-				
	buzin, water, fltrd,	nate, water, fltrd,	cyclo- butanil	fluor- fen,	meth- alin,	Phorate	Phorate	Phosmet	Prome-	zamide,	water, fltrd			
	0.7u GF μg/L (82630)	0.7u GF μg/L (82671)	μg/L (61599)	μg/L (61600)	0.7u GF μg/L (82683)	0.7u GF μg/L (61666)	0.7u GF μg/L (82664)	0.7u GF μg/L (61668)	ton, water, fltrd,	water, fltrd,	water, fltrd,	tryn, water, fltrd,	water, fltrd,	panil, water, fltrd
Jul 02...	<.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-	Sima-	Tebu-	Ter-					trans-	Tri-	1,1,1-		
	gite, water, fltrd	zine, water, fltrd	thiuron	bufos	Terbu-	Ter-	Thio-	Propi-	flur-	Tri-	chloro-		
	0.7u GF μg/L (82685)	0.7u GF μg/L (04035)	0.7u GF μg/L (82670)	0.7u GF μg/L (61606)	0.7u GF μg/L (61674)	0.7u GF μg/L (82675)	0.7u GF μg/L (04022)	0.7u GF μg/L (82681)	0.7u GF μg/L (79847)	0.7u GF μg/L (61610)	0.7u GF μg/L (82661)	CFC-113	
Jul 02...	<.02	<.006	<.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-	1,1-Di-	1,2-Di-	1,2-Di-	1,2-Di-	1,3-Di-	1,4-Di-	Bromo-	cis-	Di-	Di-	
	chloro-	chloro-	chloro-	chloro-	chloro-	chloro-	chloro-	di-	1,2-Di-	bromo-	chloro-	chloro-
	chloro-	ethene,	benzene	benzene	ethane,	propane	benzene	chloro-	chloro-	chloro-	chloro-	fluoro-
	ethane,	water, unfiltrd	water, unfiltrd	water, unfiltrd	water, unfiltrd	water, unfiltrd	water, unfiltrd	chloro-	chloro-	chloro-	chloro-	fluoro-
Jul 02...	1,1-Di-	1,1-Di-	1,2-Di-	1,2-Di-	1,2-Di-	1,3-Di-	1,4-Di-	chloro-	chloro-	chloro-	chloro-	fluoro-
	chloro-	water, unfiltrd	water, unfiltrd	water, unfiltrd	water, unfiltrd	water, unfiltrd	water, unfiltrd	chloro-	chloro-	chloro-	chloro-	fluoro-
	chloro-	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)	μg/L (34301)	μg/L (77093)
	chloro-	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)	μg/L (34301)	μg/L (77093)

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

Part 12 of 13

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

Date	Methyl											
	Di-chloro-methane water, unfltrd	Di-ethyl ether, water, unfltrd	Diiso-propyl ether, water, unfltrd	Ethyl-ether, benzene	tert-pentyl + para-ether, Xylene,	meta-o- Xylene, water,	Styrene	t-Butyl ethyl ether, water, unfltrd	Methyl t-butyl ether, water, unfltrd	Tetra-chloro-ethene, water, unfltrd	Tetra-chloro-methane, water, unfltrd	Toluene
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)
Jul 02...	<.2	<.2	<.2	<.1	<.2	<.2	<.1	<.1	<.1	<.2	<.1	<.2

**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, water, unfltrd	Tri-bromo-methane, water, unfltrd	Tri-chloro-ethene, water, unfltrd	Tri-fluoro-methane, water, unfltrd	Tri-chloro-methane, water, unfltrd	Vinyl chloride, water, unfltrd	Di-chloro-vos, water, unfltrd	Alpha radioac, Th-230, pCi/L	Alpha radioac, Th-230, pCi/L	Beta radioac, Cs-137, pCi/L	Beta radioac, Cs-137, pCi/L	Beta radioac, Cs-137, pCi/L
µg/L (34546)	µg/L (32104)	µg/L (39180)	µg/L (34488)	µg/L (32106)	µg/L (39175)	µg/L (38775)	(62639)	(62636)	(62645)	(62642)		
Jul 02...	<.1	<.2	<.1	<.2	<.1	<.2	<.01	-.8	-2	1.5	2.1	