

## Water-Data Report 2007

**410433074394001 Local number 370474- MW111**

 Sand and gravel aquifers (glaciated regions)  
 Stratified Drift

Sussex County, NJ

LOCATION.--Lat 41°04'33", long 74°39'40" referenced to North American Datum of 1927, Sparta Township, Sussex County, NJ, Hydrologic Unit 02040105.

**WATER-QUALITY RECORDS**

WELL CHARACTERISTICS.--Depth 22 ft. Upper casing diameter 2 in; top of first opening 17 ft, bottom of last opening 22 ft.

DATUM.--Land-surface datum is 615 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 provided by 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 instantaneous	Flow rate, gal/min	Pump or flow period prior to sampling, minutes	Turbidity white light, det ang 90+/-30	Barometric pressure, NTRU	Dissolved oxygen, mg/L	Dissolved oxygen, percent of saturation	pH, water, unfltrd field, std units	Conductance, µS/cm	Temperature, wat unf 25 degC	Temperature, water, deg C	Hardness, water, mg/L as CaCO3	Calcium water, fltrd, mg/L
	LSD (72019)	(00059)	(72004)	(63676)	(00025)	(00300)	(00301)	(00400)	(00095)	(00010)	(00090)	(00900)	(00915)	
Jul 18...	1030	15.00	.50	40	1.2	743	6.7	64	7.7	766	13.9	170	44.6	

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

Part 2 of 13

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

Date	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Sodium, CaCO3 (39086)	Alkalinity, inc tit	Bicarbonate, wat flt inc tit	Chloride, titr., field, mg/L as (00453)	Fluoride, water, field, mg/L (00940)	Silica, water, fltrd, mg/L (00950)	Sulfate, water, fltrd, mg/L (00945)	Residue sum of constituents, mg/L (70301)	Residue at 180degC, mg/L (70300)	Ammonia on water, fltrd, mg/L as N (00623)	Ammonia + water, fltrd, mg/L as N (00608)
	(00925)	(00935)	(00930)	(39086)	(00453)	(00940)	(00950)	(00945)	(00945)	(70301)	(70300)	(00623)	(00608)	
Jul 18...	15.2	1.35	106	218	264	58.3	.14	6.0	11.0	432	471	E.10	<.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 18...	13.5	E.001	E.004	.8	E1.4	<.06	E.08	10	<.06	19	E.02	.62	E.21

**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, µg/L (61618)	CIAT, water, fltrd, µg/L (04040)
Jul 18...	<6	<.12	<.2	<.010	.13	.23	<.1	<.04	.97	<.09	<.006	<.006	E.175

**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 18...	<.010	<.004	<.012	E.006	<.006	<.005	<.011	.194	<.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 18...	<.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, 0.7u GF μg/L (61640)	Disul-foton, water, fltrd, 0.7u GF μg/L (82677)	Endo-sulfan sulfate water, fltrd, 0.7u GF μg/L (61590)	EPTC, water, fltrd, 0.7u GF μg/L (82668)	Ethion monoxon water, fltrd, 0.7u GF μg/L (61644)	Ethion Ethion water, fltrd, 0.7u GF μg/L (82346)	Etho-prop, water, fltrd, 0.7u GF μg/L (82672)	Fenami-phos sulfone water, fltrd, 0.7u GF 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 18...	<.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 18...	<.024	<.016	<.006	<.026	<.026	<.011	<.039	<.016	<.007	<.009	<.02	<.008	E.009

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

Part 9 of 13

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

	Pending												
	Molinate, water, water, water, fltrd,	Myclobutanil water, water, water, fltrd,	Oxyfluorfen, water, water, water, fltrd,	Methalin, water, oxon, water, water, fltrd,	Phorate water, water, water, water, fltrd,	Phorate water, water, water, water, fltrd,	Prometon, water, water, water, water, fltrd,	Prometryn, water, water, water, water, fltrd,	Propyzamide, water, water, water, water, fltrd	Propanil, water, water, water, water, fltrd	Propargite, water, water, water, water, fltrd	Simazine, water, water, water, water, fltrd	
Date	µg/L (82630)	µg/L (82671)	µg/L (61599)	µg/L (61600)	µg/L (82683)	µg/L (61666)	µg/L (82664)	µg/L (04037)	µg/L (04036)	µg/L (82676)	µg/L (82679)	µg/L (82685)	µg/L (04035)
Jul 18...	<.012	<.029	<.033	<.017	<.020	<.03	<.020	<.01	<.006	<.004	<.011	<.02	.020

WATER-QUALITY DATA  
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 10 of 13

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

	Tebuthiuron water, filtrd 0.7u GF	Tefluthrin water, filtrd 0.7u GF	Terbufos oxon water, filtrd 0.7u GF	Terbu-fos, water, filtrd 0.7u GF	Terbutyl-azine, water, filtrd	Thio-bencarb, water, filtrd	trans-conazole, water, filtrd	Propi-phos, water, filtrd	Tri-flur-alin, water, filtrd	Tri-chloro-ethane, water, unfltrd	1,1,1-CFC-113 water, unfltrd	1,1-Dichloro-ethane, water, unfltrd	1,1-Dichloro-ethene, water, unfltrd
Date	µg/L (82670)	µg/L (61606)	µg/L (61674)	µg/L (82675)	µg/L (04022)	µg/L (82681)	µg/L (79847)	µg/L (61610)	µg/L (82661)	µg/L (34506)	µg/L (77652)	µg/L (34496)	µg/L (34501)
Jul 18...	<.02	<.003	<.04	<.01	<.01	<.010	<.03	<.035	<.009	<.1	<.1	<.1	<.1

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

Part 11 of 13

[Remark codes: < less than; E estimated]

[In blank spaces: < = less than, E = estimated.]													
	1,2-Di-chloro-benzene	1,2-Di-chloro-ethane, water, unfltrd	1,2-Di-chloro-propane	1,3-Di-chloro-benzene	1,4-Di-chloro-benzene	Bromo-chloro-methane	cis-chloro-ethene, water, unfltrd	1,2-Di-chloro-methane	bromo-chloro-methane	chloro-fluoro-methane	chloro-methane	Di-chloro-methane	Di-chloro-ether, water, unfltrd
Date	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)	µg/L (32105)	µg/L (34668)	µg/L (34423)	µg/L (81576)
Jul 18...	<.1	<.2	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.2	<.2	<.2	<.2

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

Part 12 of 13

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

Date	Methyl												trans- 1,2-Di- chloro- ethene,	Tri- bromo- methane										
	Diiso- propyl ether, water, unfltrd	Ethyl- benzene water, unfltrd	tert- pentyl ether, water, unfltrd	meta- + para- Xylene, water, unfltrd	o- Xylene, water, unfltrd	Styrene water, unfltrd	t-Butyl ether, water, unfltrd	Methyl ether, water, unfltrd	Tetra- chloro- ethene, water, unfltrd	Tetra- chloro- methane water, unfltrd	Toluene water, unfltrd	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)	µg/L (34546)	µg/L (32104)
Jul 18...	<.2	<.1	<.2	<.2	<.1	<.1	.1	<.2	<.1	<.2	<.1	<.1	<.1	<.2										
Jul 18...	<.2	<.1	<.2	<.2	<.1	<.1	.1	<.2	<.1	<.2	<.1	<.1	<.1	<.2										

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

Part 13 of 13

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

Date	Tri-						Alpha radio- activity	Gross radioac-																
	Tri- chloro- ethene, water, unfltrd	chloro- methane water, unfltrd	Tri- chloro- methane unfltrd	Vinyl chlor- ide, unfltrd	Di- chlor- vos, unfltrd	radio- water, fltrd,																		
µg/L (39180)	µg/L (34488)	µg/L (32106)	µg/L (39175)	µg/L (38775)	µg/L (04126)	Th-230, Cs-137,	pCi/L (03515)	pCi/L																
Jul 18...	<.1	<.2	<.1	<.2	<.01	-.2	.7																	