

Water-Data Report 2007

400634074403401 Local number 051507- MW108

Northern Atlantic Coastal Plain aquifer system

Englishtown Formation

Burlington County, NJ

LOCATION.--Lat 40°06'34", long 74°40'34" referenced to North American Datum of 1927, Chesterfield Township, Burlington County, NJ, Hydrologic Unit 02040201.

WATER-QUALITY RECORDS

WELL CHARACTERISTICS.--Depth 24 ft. Upper casing diameter 2 in; top of first opening 19 ft, bottom of last opening 24 ft.

DATUM.--Land-surface datum is 75 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 20. 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: <, less than; E, estimated.]

Date	Time	Depth to water level, feet below	Pump flow rate, instantaneous	Turbidity, white light, det ang 90+/-30	Barometric pressure, mm Hg	Dissolved oxygen, mg/L	Disolved oxygen, percent of saturation	pH, water, unfltrd field, std units	Specific conductance, µS/cm 25 degC	Temperature, water, deg C	Hardness, water, mg/L as CaCO3	Calcium water, mg/L	
	LSD (72019)	(00059)	Flow rate, gal/min	Time, minutes	NTRU (72004)	(63676)	(00025)	(00300)	(00400)	(00095)	(00010)	(00900)	
Apr 04...	0900	3.00	1.0	30	1.2	758	1.7	16	4.5	734	11.4	72	7.19

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

Part 2 of 13

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

Date	Magnesium, mg/L	Potassium, mg/L	Sodium, mg/L	water, fltrd, fltrd, fltrd, mg/L as CaCO3	Alkalinity, wat flt inc tit	Chloride, water, water, water, mg/L	Fluoride, water, water, water, mg/L	Silica, water, water, water, mg/L	Sulfate, water, water, water, mg/L	Residue on evap. at 180degC	Ammonia + org-N, water, fltrd, mg/L as N	Nitrate + Ammonia, water, fltrd, mg/L as N	Nitrite, water, fltrd, mg/L as N	Nitrite, water, fltrd, mg/L as N
	(00925)	(00935)	(00930)	(39086)	(00940)	(00950)	(00955)	(00945)	(00945)	(70300)	(00623)	(00608)	(00631)	(00613)
Apr 04...	13.2	1.41	104	<1	186	.16	10.3	42.5	386	<.10	E.017	.07	<.002	

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 3 of 13

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

Date	Ortho-phosphate, water, 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)	Iron, water, fltrd, µg/L (01046)	Lead, water, fltrd, µg/L (01049)
Apr 04...	E.004	.8	275	<.06	.18	100	.84	15	.72	E.10	E.26	166	.20

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 4 of 13

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

Date	Manganese, 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, µg/L (49295)	2,6-Diethyl-aniline, water, fltrd, µg/L (82660)	2-Chloro-diethyl-anilide, wat flt, µg/L (61618)	CIAT, water, fltrd, µg/L (04040)	2-Ethyl-aniline, water, fltrd, µg/L (61620)	3,4-Di-methyl-aniline, water, fltrd, µg/L (61625)
Apr 04...	166	<.010	38.9	.24	<.1	<.04	121	<.09	<.006	<.006	<.014	<.010	<.004

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 5 of 13

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

Date	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, water, fltrd, µg/L (61635)	Azin-phos-methyl, water, fltrd, µg/L (82686)	Ben-flur-alin, water, fltrd, µg/L (82673)	Car-baryl, water, fltrd, µg/L (82680)	Carbo-furan, water, fltrd, µg/L (82674)	Chlor-pyriifos, water, fltrd, µg/L (61636)	Chlor-pyriifos, water, fltrd, µg/L (38933)
Apr 04...	<.012	<.005	<.006	<.005	<.011	<.007	<.04	<.080	<.010	<.060	<.020	<.06	<.005

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 6 of 13

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

Date	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, 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)	Dimeth-oate, water, fltrd, 0.7u GF μg/L (82662)	Disulf-oton sulfone water, fltrd, μg/L (61640)
Apr 04...	<.010	<.013	<.018	<.053	<.014	<.046	<.003	<.012	<.005	<.08	<.009	<.006	<.01

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 7 of 13

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

Date	Disul-foton, water, 0.7u GF μg/L (82677)	Endo-sulfan sulfate water, fltrd, μg/L (61590)	EPTC, water, fltrd, μg/L (82668)	Ethion monoxon water, fltrd, μg/L (61644)	Ethion, water, fltrd, μg/L (82346)	Etho-prop, water, fltrd, μg/L (82672)	Fenami-phos sulfone water, fltrd, μg/L (61645)	Fenami-phos, water, fltrd, μg/L (61646)	Fenami-phos, water, fltrd, μg/L (61591)	Desulf-inyl-fipro-nil, water, fltrd, μg/L (62169)	Fipro-nil sulfide water, fltrd, μg/L (62167)	Fipro-nil water, fltrd, μg/L (62168)	Fipro-nil, water, fltrd, μg/L (62166)
Apr 04...	<.02	<.022	<.002	<.02	<.016	<.012	<.053	<.04	<.03	<.029	<.013	<.024	<.016

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 8 of 13

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

Date	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, 0.7u GF μg/L (82667)	Metola-chlor, water, fltrd, μg/L (39415)	Metri-buzin, water, fltrd, μg/L (82630)	Moli-nate, water, fltrd, μg/L (82671)
Apr 04...	<.006	<.026	<.026	<.011	<.039	<.016	<.007	<.009	<.02	<.008	<.010	<.012	<.003

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 9 of 13

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

Date	Myclo- butanil water, fltrd, μg/L (61599)	Oxy- fluor- fen, water, fltrd, μg/L (61600)	Pendi- meth- alin, water, fltrd, μg/L (82683)	Phorate oxon, water, fltrd, μg/L (61666)	Phorate oxon, water, fltrd, μg/L (82664)	Phosmet oxon, water, fltrd, μg/L (61668)	Phosmet ton, water, fltrd, μg/L (61601)	Prome- tryn, water, fltrd, μg/L (04037)	Prome- tryn, water, fltrd, μg/L (04036)	Propy- amide, water, fltrd, μg/L (82676)	Pro- panil, water, fltrd, μg/L (82679)	Propar- gite, water, fltrd, μg/L (82685)	Simazine, water, fltrd, μg/L (04035)
Apr 04...	<.033	<.017	<.020	<.03	<.020	<.05	<.008	<.01	<.006	<.004	<.011	<.02	<.006

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 10 of 13

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

Date	Tebu- thiuron water, fltrd, 0.7u GF μg/L (82670)	Teflu- thrin, water, fltrd, μg/L (61606)	Ter- bufos oxon water, fltrd, μg/L (61674)	Terbu- fos, water, fltrd, μg/L (82675)	Ter- butyl- azine, water, fltrd, μg/L (04022)	Thio- bencarb water, fltrd, μg/L (82681)	Propi- conazole, water, fltrd, μg/L (79847)	trans- phos, water, fltrd, μg/L (61610)	Tribu- phos, water, fltrd, μg/L (82661)	Tri- flur- alin, water, fltrd, μg/L (34506)	1,1,1- chloro- ethane, water, unfltrd, μg/L (77652)	1,1-Di- chloro- ethane, water, unfltrd, μg/L (34496)	1,1-Di- chloro- ethene, water, unfltrd, μg/L (34501)
Apr 04...	<.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.]

Date	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)	Bromo- di- chloro- Benzene methane water, unfltrd μg/L (34030)	Chloro- benzene water, unfltrd μg/L (32101)	cis- chloro- benzene water, unfltrd μg/L (34301)	1,2-Di- bromo- chloro- ethene, water, unfltrd μg/L (77093)	Di- chloro- methane water, unfltrd μg/L (32105)	Di- chloro- methane water, unfltrd μg/L (34668)	Di- chloro- methane water, unfltrd μg/L (34423)	Di- ethyl ether, water, unfltrd μg/L (81576)
Apr 04...	<.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: <, less than; E, estimated.]

Date	Methyl												
	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	trans- 1,2-Di- chloro- ethene, water, unfltrd	Tri- bromo- methane 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)	
Apr 04...	<.2	<.1	<.2	<.2	<.1	<.1	<.1	<.2	<.1	<.2	<.1	<.1	<.2

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 13 of 13

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

Date	Tri-								
	Tri- chloro- ethene, water, unfltrd	chloro- methane water, unfltrd	Tri- chloro- methane unfltrd	Vinyl chlor- ide, water, unfltrd	Di- chlor- vos, water, unfltrd	Alpha radioac 30 day, wat flt	Alpha radioac 72 hr, wat flt	Beta radioac 30 day, wat flt	Beta radioac 72 hr, wat flt
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)	
Apr 04...	<.1	<.2	<.1	<.2	<.01	10	7.5	7.1	3.9