

01408152 SOUTH BRANCH METEDECONK RIVER NEAR LAURELTON, NJ

METEDECONK RIVER BASIN

LOCATION.--Lat 40°04'42", long 74°09'24" referenced to North American Datum of 1983, Brick Township, Ocean County, NJ, Hydrologic Unit 02040301, at bridge on Chambers Bridge Road (County Route 549), 0.4 mi upstream from mouth, and 1.7 mi northwest of Laurelton.

DRAINAGE AREA.--30.8 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous measurements, water years 2003-04, 2006-07.

GAGE.--Reference point only.

**DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Date	Discharge, in ft³/s
Oct 26, 2006	39.0
Jan 24, 2007	54.9
Apr 24, 2007	72.7
Jul 19, 2007	80.8

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WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1976-1978, 1999, 2007.

REMARKS.--Total nitrogen (00600) equals the sum of filtered ammonia-plus-organic nitrogen (00623), filtered nitrite-plus-nitrate nitrogen (00631), and total particulate nitrogen (49570). Cooperative Network Site Descriptor: Statewide Status and Perchlorate Assessment special study, NJ Department of Environmental Protection Watershed Management Area 13. The sample on Jul 19 was for the perchlorate assessment special study.

COOPERATION.--Physical measurements and samples for laboratory analyses were provided by personnel of the NJ Department of Environmental Protection. Determinations of dissolved ammonia, dissolved orthophosphate, and suspended residue were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory. Determination of dissolved perchlorate was performed by TestAmerica Laboratories, Inc.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 1 of 5

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

Date	Time	Sample type	Turbidity white light, det ang 90+/-30 corrctd NTRU (63676)	UV absorb- ance, 254 nm, wat flt units /cm (50624)	UV absorb- ance, 280 nm, wat flt units /cm (61726)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif- ic conduc- tance, wat unf µS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)
Nov												
16...	0900	Environmental	5.2	.458	.356	760	7.4	73	6.6	109	17.5	14.5
Mar												
12...	0930	Environmental	4.9	.203	.156	773	9.7	77	6.7	163	4.0	5.7
May												
30...	0900	Environmental	3.9	.257	.204	769	7.2	80	6.7	172	22.0	21.3
Jul												
19...	1030	Environmental	5.0	--	--	758	6.6	79	6.7	167	31.0	24.8
Aug												
15...	0915	Field Blank	--	--	--	--	--	--	--	--	--	--
15...	1000	Environmental	3.8	.238	.187	762	6.7	77	6.7	153	27.0	23.0

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 2 of 5

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

Date	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfixed end pt, lab, mg/L as CaCO3 (90410)	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)	Residue total non-filterable, mg/L (00530)
Nov 16...	20	5.94	1.35	2.20	10.7	10	17.0	<.10	5.3	8.18	58	65	8
Mar 12...	23	6.81	1.52	1.93	18.9	8	31.1	E.06	5.1	11.2	85	102	6
May 30...	26	7.66	1.77	2.18	19.0	13	32.2	<.10	3.2	10.8	88	102	3
Jul 19...	--	--	--	--	--	--	--	--	--	--	--	--	--
Aug 15...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	26	7.68	1.76	2.04	17.7	14	27.8	<.10	3.0	10.4	81	91	7

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 3 of 5

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

Date	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water, fltrd, mg/L as N (00631)	Particulate nitrogen, susp, water, mg/L (49570)	Total nitrogen, water, fltrd, mg/L (00602)	Total nitrogen, water, unfltrd, mg/L (00600)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd, mg/L (00665)	Total carbon, suspnd, sedimnt, total, mg/L (00694)	Inorganic carbon, suspnd, sedimnt, total, mg/L (00688)	Organic carbon, suspnd, sedimnt, total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)
Nov 16...	.60	.070	.25	.09	.86	.94	E.003	.013	.038	1.4	<.1	1.4	9.8
Mar 12...	.45	.055	.65	.06	1.1	1.2	E.007	.008	.022	.6	<.1	.6	4.5
May 30...	.31	.036	.63	.09	.94	1.0	.017	.015	.029	1.0	<.1	1.0	4.9
Jul 19...	--	--	--	--	--	--	--	--	--	--	--	--	--
Aug 15...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	.30	.049	.42	.06	.72	.78	<.010	.015	.028	.6	<.1	.6	4.1

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 4 of 5

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

Date	Arsenic	Arsenic	Barium,	Beryll-	Boron,	Boron,	Cadmium	Chrom-	Copper,	Copper,	Iron,	Lead,	Lead,
	water,	water,	water,	ium,	water,	water,	water,	ium,	water,	water,	water,	water,	water,
	flt	unflt	reco	reco	flt	reco	unflt	reco	reco	reco	reco	flt	reco
	able,												
	µg/L												
	(01000)	(01002)	(01007)	(01012)	(01020)	(01022)	(01027)	(01034)	(01040)	(01042)	(01045)	(01049)	(01051)
Nov 16...	--	--	--	--	20	--	--	--	--	--	--	--	--
Mar 12...	.26	.25	29.3	E.04	16	14	.10	E.49	--	<1.2	573	--	.86
May 30...	--	--	--	--	21	--	--	--	--	--	--	--	--
Jul 19...	--	--	--	--	--	--	--	--	--	--	--	--	--
Aug 15...	<.12	--	--	--	--	--	--	--	.59	--	--	<.12	--
15...	.40	.57	34.6	<.06	21	20	.02	<.60	--	--	1,570	--	1.08

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 5 of 5

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

Date	Mangan-	Mercury	Mercury	Nickel,	Nickel,	Per-	Selen-	Silver,	Zinc,	Zinc,	Zinc,
	ese,	water,	water,	water,	water,	chlor-	ium,	water,	water,	water,	water,
	unflt	reco	reco	reco	reco	ate,	unflt	reco	reco	reco	reco
	able,	able,	able,	able,	able,	unflt	unflt	able,	able,	able,	able,
	µg/L										
	(01055)	(71890)	(71900)	(01065)	(01067)	(61209)	(01147)	(01077)	(01090)	(01092)	(01092)
Nov 16...	--	--	--	--	--	--	--	--	--	--	--
Mar 12...	44.0	--	.013	--	1.06	--	.14	<.02	--	15	--
May 30...	--	--	--	--	--	--	--	--	--	--	--
Jul 19...	--	--	--	--	--	.3700	--	--	--	--	--
Aug 15...	--	<.010	--	<.06	--	--	--	--	<.60	--	--
15...	37.5	--	E.008	--	.98	--	.12	.06	--	4.9	--

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 1 of 7

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

Date	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)	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)
May 30...	<.09	<.006	<.006	E.008	<.010	<.004	<.012	<.005	E.005	<.005	<.011	.014	<.04

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 2 of 7

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

Date	Azin-phos-methyl, water, fltrd 0.7u GF µg/L (82686)	Ben-flur-alin, water, fltrd 0.7u GF µg/L (82673)	Car-baryl, water, fltrd 0.7u GF µg/L (82680)	Carbo-furan, water, fltrd 0.7u GF µg/L (82674)	Chlor-pyrifos oxon, water, fltrd, µg/L (61636)	Chlor-pyrifos water, fltrd, µg/L (38933)	cis-Per-methrin water fltrd 0.7u GF µg/L (82687)	cis-Propi-cona-zole, 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)
May 30...	<.080	<.010	E.019	<.020	<.06	<.005	<.010	<.013	<.018	<.053	<.014	<.046	<.003

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 3 of 7

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

Date	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)	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 monooxon 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)
May 30...	E.004	<.005	<.08	<.009	<.006	<.01	<.02	<.022	<.002	<.02	<.016	<.012	<.053

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 4 of 7

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

Date	Fenami-phos-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)	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)
May 30...	<.04	<.03	E.007	E.006	<.024	<.016	<.006	<.026	<.026	<.011	<.039	<.016	<.007

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 5 of 7

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

Date	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)	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 water, fltrd, µg/L (61601)	Prome-ton, water, fltrd, µg/L (04037)
May 30...	<.009	<.02	<.008	E.009	<.012	<.003	<.033	<.017	<.020	<.03	<.020	<.008	<.01

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 6 of 7

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

Date	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)	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-conazole, water, fltrd, µg/L (79847)	Tribu-phos, water, fltrd, µg/L (61610)
May 30...	<.006	<.004	<.011	<.02	E.007	<.02	<.003	<.04	<.01	<.01	<.010	<.03	<.035

01408152 SOUTH BRANCH METEDECONK RIVER NEAR LAURELTON, NJ—Continued

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

Part 7 of 7

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

Date	Tri- flur- alin, water, fltrd 0.7u GF µg/L (82661)	Di- chlor- vos, water, fltrd, µg/L (38775)
May		
30...	<.009	<.01