

Water-Data Report 2006

01408460 MANAPAQUA BRANCH AT LAKEHURST, NJ

TOMS RIVER BASIN

LOCATION.--Lat 40°00'44", long 74°18'09" referenced to North American Datum of 1983, Manchester Township, Ocean County, NJ, Hydrologic Unit 02040301, at bridge on State Route 70, 0.9 mi northeast of Horizon Lake, and 3.2 mi upstream of Pine Lake.

DRAINAGE AREA.--6.32 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1960-64, 2003 to current year.

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). Bacteria samples were collected synoptically over a 30-day period during the summer.

COOPERATIVE NETWORK SITE DESCRIPTOR: Statewide Status, New Jersey Department of Environmental Protection (NJDEP) Watershed Management Area 13.

COOPERATION.--Physical measurements and samples for laboratory analyses were provided by personnel of the NJDEP. Bacteria samples were provided by the local county health department under the direction of the NJDEP through the County Environmental Health Act. Determinations of filtered ammonia, filtered orthophosphorus, BOD, total suspended residue, fecal coliform, E. coli, and enterococcus bacteria were performed by the NJ Department of Health and Senior Services.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

Part 1 of 5

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

Date	Time	Turbidity white light, det ang 90+/-30 corrctd	UV absorb- ance, 254 nm, wat flt units	UV absorb- ance, 280 nm, wat flt units	Baro- metric pres- sure, mm Hg	Dis- solved oxygen, mg/L (00025)	Dis- solved oxygen, mg/L (00300)	pH, percent of sat- uration (00301)	Specif. water, unfltrd field, std units (00400)	Conduc- tance, wat unf uS/cm (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)
Nov 21...	0900	9.3	.275	.220	761	8.8	73	5.5	57	8.3	7.1	8	1.94	
Mar 14...	0900	8.5	.172	.135	765	6.5	63	5.8	65	14.5	13.8	8	2.10	
Jun 07...	0900	13	.325	.261	754	5.9	62	5.8	59	16.0	17.2	8	2.00	
Aug 30...	0900	12	.250	.199	759	5.2	57	5.8	56	19.0	20.3	8	2.06	

01408460 MANAPAQUA BRANCH AT LAKEHURST, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 2 of 5

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

Date	ANC, wat unf						Residue water, fltrd,		Residue on sum of consti- tuents		Residue total at 105 deg. C,		Ammonia + org-N, water, filtrd, mg/L as N (00623)	
	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	CaCO ₃ mg/L as (90410)	Chlor- ide, lab, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate, water, fltrd, mg/L (00945)	180degC wat flt mg/L (70301)	180degC wat flt mg/L (70300)	(00530)	Ammonia water, filtrd, mg/L as N (00608)		
Nov 21...	.718	1.14	5.82	<5	8.51	<.10	3.9	5.86	--	36	3	3.3	.128	
Mar 14...	.669	1.54	7.11	<5	10.5	<.10	2.8	5.28	--	35	16	.84	.107	
Jun 07...	.692	.81	6.33	5	9.27	<.10	2.7	4.66	30	41	7	.24	.076	
Aug 30...	.617	1.05	5.71	<5	8.44	<.10	2.8	5.37	--	41	7	.32	.081	

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 3 of 5

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

Date	Nitrite + nitrate water fltrd, mg/L as N (00631)	Partic- ulate nitro- gen, water, fltrd, mg/L (49570)	Total nitro- gen, water, unfltrd mg/L (00602)	Total nitro- gen, water, unfltrd mg/L (00600)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L (00666)	Phos- phorus, water, unfltrd mg/L (00665)	Total carbon, susnd sediment total, mg/L (00694)	Inor- ganic carbon, susnd sediment total, mg/L (00688)	Organic carbon, susnd sediment total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	Arsenic water, fltrd, ug/L (01000)
Nov 21...	.12	.13	3.4	3.7	<.010	.009	.031	2.4	<.1	2.4	4.8	E2.5	--
Mar 14...	.20	.14	1.0	1.2	E.004	.007	.025	2.2	<.1	2.2	3.9	<1.0	.33
Jun 07...	.11	.16	.36	.51	E.003	<.004	.036	2.4	<.1	2.4	5.5	E1.3	--
Aug 30...	.12	.17	.44	.61	.020	E.002	.047	2.9	<.1	2.9	4.7	<1.0	.49

01408460 MANAPAQUA BRANCH AT LAKEHURST, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 4 of 5

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

Date	Beryll-			Chrom-			Mangan-					
	Arsenic water unfltrd ug/L (01002)	Barium, water, unfltrd ug/L (01007)	ium, water, unfltrd ug/L (01012)	Boron, water, unfltrd ug/L (01020)	Boron, water, unfltrd ug/L (01022)	Cadmium water, unfltrd ug/L (01027)	ium, water, unfltrd ug/L (01034)	Copper, water, unfltrd ug/L (01042)	Iron, water, unfltrd ug/L (01045)	Lead, water, unfltrd ug/L (01051)	ese, water, unfltrd ug/L (01055)	Mercury water, unfltrd ug/L (71900)
Nov 21...	--	--	--	17	--	--	--	--	--	--	--	--
Mar 14...	.68	12.3	<.06	14	14	.07	.67	1.3	2,380	.94	34.0	.045
Jun 07...	--	--	--	14	--	--	--	--	--	--	--	--
Aug 30...	1.2	12.7	<.06	18	19	.05	.80	1.3	4,410	1.44	19.2	.019

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO
SEPTEMBER 2006

Part 5 of 5

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

Date	Silver, Zinc,		
	Selen- ium, water, unfltrd ug/L (01147)	water, unfltrd ug/L (01077)	water, unfltrd ug/L (01092)
Nov 21...	--	--	--
Mar 14...	<.08	<.16	15
Jun 07...	--	--	--
Aug 30...	.13	<.16	13

01408460 MANAPAQUA BRANCH AT LAKEHURST, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 1 of 5

[Remark codes: <, less than.]

Date	Time	2,4-D methyl ester, water, fltrd, ug/L (50470)	2,4-DB water, water, fltrd, ug/L (39732)	CIAT, 0.7u GF	CEAT, water, fltrd, ug/L (04040)	OIET, water, fltrd, ug/L (04038)	Hydroxy carbo-furan, wat flt	Aci-fluor-fen, water, fltrd, ug/L (49308)	3-Hydroxy furan, water, fltrd, ug/L (49315)	Aldi-carb sulfone, water, fltrd, ug/L (49313)	Aldi-carb sulf-oxide, water, fltrd, ug/L (49314)	Aldi-carb, water, fltrd, ug/L (49312)	Atra-zine, water, fltrd, ug/L (39632)
Jun 07...	0900	<.190	<.04	<.02	<.03	<.08	<.032	<.008	<.028	<.02	<.100	<.15	<.008

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 2 of 5

[Remark codes: <, less than.]

Date	Bendio-carb, water, fltrd, ug/L (50299)	Benomyl, water, fltrd, ug/L (50300)	Bensulfuron-methyl, water, fltrd, ug/L (61693)	Ben-tazon, water, fltrd, ug/L (38711)	Bromo-cil, water, fltrd, ug/L (04029)	Bromoxynil, water, fltrd, ug/L (49311)	Caf-feine, water, fltrd, ug/L (50305)	Car-baryl, water, fltrd, ug/L (49310)	Carbo-furan, water, fltrd, ug/L (49309)	Chlor-amben methyl, water, fltrd, ug/L (61188)	Chlori-muron, water, fltrd, ug/L (50306)	Chloro-di-amino-s-triazine, water, fltrd, ug/L (04039)	Clopyralid, water, fltrd, ug/L (49305)
Jun 07...	<.08	<.022	<.02	<.02	<.02	<.04	<.018	<.02	<.016	<.02	<.032	<.04	<.07

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 3 of 5

[Remark codes: <, less than.]

Date	Dacthal mono-acid, water, fltrd, ug/L (04031)	Dicamba, water, fltrd, ug/L (49304)	Di-chlor-prop, water, fltrd, ug/L (38442)	Dinoseb, water, fltrd, ug/L (49302)	Diphen-amid, water, fltrd, ug/L (49301)	Diuron, water, fltrd, ug/L (04033)	Fenuron, water, fltrd, ug/L (49300)	Flumet-sulam, water, fltrd, ug/L (49297)	Fluor-meturon, water, fltrd, ug/L (61694)	Imaza-quin, water, fltrd, ug/L (38811)	Imaza-thapyr, water, fltrd, ug/L (50356)	Imida-cloprid, water, fltrd, ug/L (50407)	Imida-cloprid, water, fltrd, ug/L (61695)
Jun 07...	<.01	<.03	<.04	<.03	<.04	<.01	<.02	<.10	<.04	<.02	<.04	<.04	<.020

01408460 MANAPAQUA BRANCH AT LAKEHURST, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 4 of 5

[Remark codes: <, less than.]

Date	N-(4-Chlorophenyl)N'-methylurea, water, fltrd, 0.7u GF ug/L (38478)												
	Linuron, water, fltrd, 0.7u GF ug/L (38478)	MCPA, water, fltrd, 0.7u GF ug/L (38482)	MCPB, water, fltrd, 0.7u GF ug/L (38487)	Metaxyl, water, fltrd, 0.7u GF ug/L (50359)	Methiocarb, water, fltrd, 0.7u GF ug/L (38501)	Methomyl, water, fltrd, 0.7u GF ug/L (49296)	Metsulfuron, water, fltrd, 0.7u GF ug/L (61697)	Chlorophenyl)N'-methylurea, water, fltrd, 0.7u GF ug/L (61692)	Neburon, water, fltrd, 0.7u GF ug/L (49294)	Nicosulfuron, water, fltrd, 0.7u GF ug/L (50364)	Norflurazon, water, fltrd, 0.7u GF ug/L (49293)	Oryzalin, water, fltrd, 0.7u GF ug/L (49292)	Oxamyl, water, fltrd, 0.7u GF ug/L (38866)
Jun 07...	<.01	<.07	<.10	<.03	<.034	<.070	<.07	<.04	<.01	<.04	<.02	<.02	<.05

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 5 of 5

[Remark codes: <, less than.]

Date	Picloram, water, fltrd, 0.7u GF ug/L (49291)	Propham, water, fltrd, 0.7u GF ug/L (49236)	Propiconazole, water, fltrd, 0.7u GF ug/L (50471)	Propoxur, water, fltrd, 0.7u GF ug/L (38538)	Prosiduron, water, fltrd, 0.7u GF ug/L (38548)	Sulforuron, water, fltrd, 0.7u GF ug/L (50337)	Tebuthiuron, water, fltrd, 0.7u GF ug/L (82670)	Terbacil, water, fltrd, 0.7u GF ug/L (04032)	Tri-clopyr, water, fltrd, 0.7u GF ug/L (49235)
Jun 07...	<.03	<.030	<.01	<.008	<.02	<.090	.068	<.026	<.03

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

[Remark codes: <, less than.]

Date	Time	Enterococci, m-E MF, water, col/	E coli, m-TEC MF, water, col/	Fecal coliform, ECbroth MPN/
		Temperature, water, deg C (00010)	100 mL (31649)	100 mL (31633)
Aug				
02...	0827	25.8	120	<10
09...	0726	20.7	180	20
16...	0755	20.3	80	<10
23...	0820	20.9	180	170
30...	0804	21.1	210	300
				82