

Water-Data Report 2006

01476625 RATTLING RUN AT TOMLIN, NJ

DELAWARE RIVER BASIN

LOCATION.--Lat 39°46'17", long 75°15'51" referenced to North American Datum of 1983, East Greenwich Township, Gloucester County, NJ, Hydrologic Unit 02040202, at bridge on East Tomlin Station Road in Tomlin, 0.4 mi upstream of dam on Rattling Run, and 2.9 mi northeast of Swedesboro, 2.9 mi southwest of Clarksboro.

DRAINAGE AREA.--2.51 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2005 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 18.

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	UV absorb- ance, 280 nm, wat flt	Baro- metric pres- sure, mm Hg	Dis- solved oxygen, mg/L (00025)	Dis- solved oxygen, percent of sat- uration (00300)	pH, water, unfltrd field, std (00400)	Specif. 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 03...	0830	10	.189	.150	769	9.0	77	7.1	237	11.4	8.8	69	16.9
Feb 07...	0900	14	.112	.088	760	10.8	81	7.0	226	1.4	3.0	67	16.0
May 03...	0800	10	.208	.165	760	8.9	84	7.3	240	13.4	12.6	69	16.9
Aug 17...	0800	8.9	.183	.147	768	6.2	68	7.6	218	20.0	20.1	68	16.3

01476625 RATTLING RUN AT TOMLIN, 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,		Residue on		Residue total		Ammonia	
	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, end pt water, fltrd, mg/L (00940)	Fluor- ide, lab water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate, water, fltrd, mg/L (00945)	consti- tuents mg/L (70301)	180degC wat flt mg/L (70300)	sus- pended, mg/L (00530)	at 105 deg. C, mg/L (00623)	org-N, water, fltrd, mg/L (00608)	Ammonia water, fltrd, mg/L (00623)
Nov 03...	6.55	7.90	10.7	21	27.6	.18	9.1	29.9	130	133	6	2.8	.097	
Feb 07...	6.53	5.37	9.50	16	25.1	.15	7.1	28.9	123	127	2	.46	.073	
May 03...	6.63	5.64	11.9	27	31.9	.21	4.5	24.7	126	143	6	.48	.075	
Aug 17...	6.63	6.97	7.52	39	26.3	.17	6.9	17.5	115	140	2	.93	.079	

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 3 of 5

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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 mg/L (00694)	Inor- ganic carbon, susnd sediment mg/L (00688)	Organic carbon, susnd sediment mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	BOD, water, unfltrd 5 day, mg/L (00310)	Arsenic water, fltrd, ug/L (01000)
	2.00	.13	4.8	4.9	E.003	.020	.125	1.8	<.1	1.8	4.3	E1.5	--
Nov 03...	2.00	.13	4.8	4.9	E.003	.020	.125	1.8	<.1	1.8	4.3	E1.5	--
Feb 07...	3.25	.10	3.7	3.8	E.008	.012	.095	1.2	<.1	1.2	3.8	<1.2	.48
May 03...	1.61	.14	2.1	2.2	E.005	.028	.136	1.6	<.1	1.6	4.4	E1.8	--
Aug 17...	.83	.06	1.8	1.8	.025	.054	.135	.6	<.1	.6	3.4	E1.4	1.5

01476625 RATTLING RUN AT TOMLIN, 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 03...	--	--	--	28	--	--	--	--	--	--	--	--
Feb 07...	1.2	53.3	.07	24	23	.09	.84	1.2	1,620	.76	75.8	<.010
May 03...	--	--	--	25	--	--	--	--	--	--	--	--
Aug 17...	2.9	48.3	<.06	27	23	<.04	.37	E.6	1,800	.25	68.8	<.010

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 03...	--	--	--
Feb 07...	.13	E.11	20
May 03...	--	--	--
Aug 17...	.08	<.16	2

01476625 RATTLING RUN AT TOMLIN, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 1 of 5

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

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 ug/L (38746)	CEAT, water, fltrd, ug/L (04040)	OIET, water, fltrd, ug/L (04038)	Hydroxy carbo- furan, wat flt ug/L (50355)	Aldi- carb sulfone water, fltrd, ug/L (49308)	Aldi- carb sulf- oxide, wat flt 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)	Bendio- carb, water, fltrd, ug/L (50299)
May 03...	0800	<.016	<.04	<.02	<.03	<.08	<.032	<.008	<.02	<.022	<.04	<.009	<.02

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 2 of 5

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

Date	Benomyl water, fltrd, ug/L (50300)	Bensul- furone methyl, water, fltrd, ug/L (61693)	Ben- tazon, water, fltrd, ug/L (38711)	Bromo- cil, water, fltrd, ug/L (04029)	Brom- oxynil, 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-tri- azine, water, fltrd, ug/L (04039)	Clopyr- alid, water, fltrd, ug/L (49305)	Cyclo- ate, water, fltrd, ug/L (04031)
May 03...	E.010	<.02	E.01	<.02	<.03	E.010	<.02	.118	<.02	E.024	<.04	<.02	<.01

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 3 of 5

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Date	Dacthal mono- acid, 0.7u GF ug/L (49304)	Dicamba water, fltrd, ug/L (38442)	Di- chlor- prop, water, fltrd, ug/L (49302)	Diphen- amid, water, fltrd, ug/L (04033)	Diuron, water, fltrd, ug/L (49300)	Fenuron water, fltrd, ug/L (49297)	Flumet- sulam, water, fltrd, ug/L (61694)	Fluo- meturon, water, fltrd, ug/L (38811)	Imaza- quin, water, fltrd, ug/L (50356)	Imaze- thapyr, water, fltrd, ug/L (50407)	Imida- cloprid, water, fltrd, ug/L (61695)	Linuron water, fltrd, ug/L (38478)	MCPA, water, fltrd, ug/L (38482)
May 03...	<.03	<.04	<.03	<.01	.10	<.02	<.04	<.02	<.04	<.04	.035	<.01	<.03

01476625 RATTLING RUN AT TOMLIN, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 4 of 5

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

Date	MCPB, water, filtrd 0.7u GF	Meta- laxyl, water, filtrd 0.7u GF	Methio- carb, water, filtrd 0.7u GF	Meth- omyl, water, filtrd 0.7u GF	Metsul- furone, water, filtrd 0.7u GF	Chloro- phenyl) methyl- urea, ug/L	Neburon water, filtrd 0.7u GF	Nico- sul- furon, water, filtrd 0.7u GF	Norflur azon, water, filtrd 0.7u GF	Ory- zalin, water, filtrd 0.7u GF	Oxamyl, water, filtrd 0.7u GF	Pic- loram, water, filtrd 0.7u GF	Propham water, filtrd 0.7u GF
	ug/L (38487)	ug/L (50359)	ug/L (38501)	ug/L (49296)	ug/L (61697)	ug/L (61692)	ug/L (49294)	ug/L (50364)	ug/L (49293)	ug/L (49292)	ug/L (38866)	ug/L (49291)	ug/L (49236)
May 03...	<.01	.32	<.010	<.020	<.07	<.04	<.01	<.04	.24	<.01	<.03	<.03	<.030

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 5 of 5

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Date	Propi- conazole, water, filtrd, 0.7u GF	Pro- poxur, water, filtrd 0.7u GF	Sulfo- Siduron water, filtrd, 0.7u GF	Tebu- thiuron water, filtrd 0.7u GF	Terba- cil, water, filtrd 0.7u GF	Tri- clopyr, water, filtrd 0.7u GF	
	ug/L (50471)	ug/L (38538)	ug/L (38548)	ug/L (50337)	ug/L (82670)	ug/L (04032)	ug/L (49235)
May 03...	<.01	<.008	.13	<.091	<.026	<.016	<.03

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

[Remark codes: <, less than.]

Date	Time	Temper- ature, water, deg C (00010)	Enter- occci, m-E	E coli, m-TEC	Fecal coli- form, ECbroth
			100 mL (31649)	100 mL (31633)	100 mL (31615)
May 31...	1030	21.3	470	200	2,400
Jun 07...	1010	18.4	400	<10	170
14...	1010	19.0	520	570	800
21...	1015	21.0	300	510	1,300
28...	1015	22.6	5,000	1,400	5,000