

## 01368825 DOUBLE KILL AT WAWAYANDA ROAD, AT WAWAYANDA, NJ

LOCATION.--Lat 41°11'31", long 74°24'58", Sussex County, Hydrologic Unit 02020007, at bridge on Wawayanda Road, 0.3 mi upstream of tributary, 0.5 mi northeast of Wawayanda Lake, and 1.8 mi northwest of community of Upper Greenwood Lake.

DRAINAGE AREA.--9.70 mi<sup>2</sup>.

PERIOD OF RECORD.--November 2004 to August 2005.

REMARKS.--For definition of the type of quality-control data listed under SAMPLE TYPE, refer to "Water-Quality Control Data" in the Explanation of Water-Quality Records section of this report. Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570).

COOPERATION.--Field data and samples for laboratory analyses were provided by the New Jersey Department of Environmental Protection. Concentrations of ammonia in samples collected during November to December and August to September; orthophosphate in every sampling period except February to March; and nitrite, biochemical oxygen demand, total suspended residue, fecal coliform, E. coli, and enterococcus bacteria were determined by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Statewide Status, New Jersey Department of Environmental Protection Watershed Management Area 2.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Turbidity white light, det ang 90+/-30 correctd NTRU (63676)	UV absorb- ance, 254 nm, wat fltrd units /cm (50624)	UV absorb- ance, 280 nm, wat fltrd 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. conduc- tance, wat unfl- trd uS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	
Date		Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfl- fixed end pt, lab, mg/L as CaCO3 (90410)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of consti- tuents mg/L (70301)	Residue on evap. at 180degC wat fltrd mg/L (70300)	Residue total at 105 deg. C, sus- pended, mg/L (00530)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia water, fltrd, mg/L as N (00608)
Date		Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Partic- ulate nitro- gen, susp, water, mg/L (49570)	Total nitro- gen, water, fltrd, 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, suspnd sedimnt total, mg/L (00694)	Inor- ganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)
NOV 15...	1030	1.1	.389	.306	745	12.4	95	7.2	158	15.0	3.4	43	11.4	
FEB 15...	0946	1.3	.191	.149	736	12.8	95	7.4	158	7.5	1.6	39	10.2	
MAY 26...	0915	1.4	.368	.289	727	9.4	90	7.5	151	13.0	11.5	39	9.71	
AUG 25...	0900	1.7	.476	.365	742	7.2	75	7.0	52	20.0	15.6	20	5.22	
NOV 15...	3.63	.91	14.6	31	25.5	E.1	5.9	5.1	86	108	6	.34	.012	
FEB 15...	3.37	.69	12.9	29	22.0	E.1	5.5	6.9	79	86	--	.25	<.040	
MAY 26...	3.46	.48	14.6	29	23.6	E.1	1.5	5.0	76	98	--	.43	<.040	
AUG 25...	1.58	.38	2.26	17	2.89	.1	6.7	2.4	32	57	1	.53	.054	
NOV 15...	<.06	.006	.03	--	--	<.010	.016	.022	.3	<.1	.3	7.4	<1.0	
FEB 15...	E.04	--	.06	--	.35	<.006	.009	.017	.3	<.1	.3	4.7	--	
MAY 26...	E.04	--	.03	--	.50	.011	.021	.036	.3	<.1	.3	6.7	E1.7	
AUG 25...	.09	--	<.02	.62	--	.014	.036	.046	.2	<.1	.2	10.0	<1.0	

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WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Boron, water, fltrd, ug/L (01020)	Sus- pended sedi- ment concen- tration mg/L (80154)
NOV 15...	10	--
FEB 15...	7.9	2
MAY 26...	11	2
AUG 25...	E6.1	--

Remark codes used in this table:  
 < -- Less than.  
 E -- Estimated.

WATER-COLUMN TRACE-ELEMENT ANALYSES

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Sample type	Arsenic water, fltrd, ug/L (01000)	Arsenic water unfltrd ug/L (01002)	Barium, water, unfltrd recover -able, ug/L (01007)	Beryll- ium, water, unfltrd recover -able, ug/L (01012)	Boron, water, unfltrd recover -able, ug/L (01022)	Cadmium water, unfltrd ug/L (01027)	Chrom- ium, unfltrd recover -able, ug/L (01034)	Copper, water, fltrd, ug/L (01040)	Copper, water, unfltrd recover -able, ug/L (01042)
FEB 15...	0944	Sampler Blank	--	--	--	--	--	--	--	--	--
15...	0945	Field Blank	<.2	--	--	--	--	--	--	<.4	--
15...	0946	Environmental	E.2	<2	6.8	E.03	9	<.04	<.8	--	E.6
AUG 25...	0900	Environmental	.6	.73	5.7	<.06	8	E.02	.24	--	<.6

Date	Iron, water, unfltrd recover -able, ug/L (01045)	Lead, water, fltrd, ug/L (01049)	Lead, water, unfltrd recover -able, ug/L (01051)	Mangan- ese, water, unfltrd recover -able, ug/L (01055)	Mercury water, fltrd, ug/L (71890)	Mercury water, unfltrd recover -able, ug/L (71900)	Nickel, water, fltrd, ug/L (01065)	Nickel, water, unfltrd recover -able, ug/L (01067)	Selen- ium, water, unfltrd ug/L (01147)	Silver, water, unfltrd recover -able, ug/L (01077)	Zinc, water, fltrd, ug/L (01090)	Zinc, water, unfltrd recover -able, ug/L (01092)
FEB 15...	--	--	--	--	--	--	--	--	--	--	E.5	--
15...	--	<.08	--	--	<.01	--	<.06	--	--	--	E.3	--
15...	130	--	.32	27.5	--	<.01	--	.57	.4	<.16	--	3
AUG 25...	600	--	.66	140	--	<.01	--	.71	<.4	<.16	--	3

Remark codes used in this table:  
 < -- Less than.  
 E -- Estimated.

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WATER-COLUMN PESTICIDE ANALYSES

The following were determined using laboratory schedule 2001 (listed in its entirety, with laboratory reporting levels, in "Laboratory Measurements" in the Explanation of Water-Quality Records section of this report). Only pesticides detected in one or more surface-water samples are listed in the following table.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	CIAT, water, fltrd, ug/L (04040)	Aceto-chlor, water, fltrd, ug/L (49260)	Ala-chlor, water, fltrd, ug/L (46342)	Atra-zine, water, fltrd, ug/L (39632)	Azin-phos-methyl, water, fltrd, 0.7u GF ug/L (82686)	Ben-flur-alin, water, fltrd, 0.7u GF ug/L (82673)	Car-baryl, water, fltrd, 0.7u GF ug/L (82680)	Carbo-furan, water, fltrd, 0.7u GF ug/L (82674)	Chlor-pyrifos, water, fltrd, ug/L (38933)	DCPA, water fltrd, 0.7u GF ug/L (82682)	Desulf-inyl fipro-nil, water, fltrd, ug/L (62170)	Diazi-non, water, fltrd, ug/L (39572)
MAY 26...	0915	E.004	<.006	<.005	.009	<.050	<.010	<.041	<.020	<.005	<.003	<.012	<.005

Date	Time	Desulf-inyl-fipro-nil amide, wat flt ug/L (62169)	Fipro-nil sulfide, water, fltrd, ug/L (62167)	Fipro-nil sulfone, water, fltrd, ug/L (62168)	Fipro-nil, water, fltrd, ug/L (62166)	Linuron, water, fltrd, 0.7u GF ug/L (82666)	Metola-chlor, water, fltrd, ug/L (39415)	Metri-buzin, water, fltrd, ug/L (82630)	Naprop-amide, water, fltrd, 0.7u GF ug/L (82684)	Pendi-meth-alin, water, fltrd, 0.7u GF ug/L (82683)	Prome-ton, water, fltrd, ug/L (04037)	Propy-zamide, water, fltrd, 0.7u GF ug/L (82676)	Sima-zine, water, fltrd, ug/L (04035)
MAY 26...	<.009	<.029	<.013	<.024	<.016	<.035	E.005	<.006	<.007	<.022	M	<.004	<.005

Date	Time	Tebu-thiuron, water, fltrd, 0.7u GF ug/L (82670)	Terba-cil, water, fltrd, 0.7u GF ug/L (82665)	Tri-flur-alin, water, fltrd, 0.7u GF ug/L (82661)
MAY 26...		<.02	<.034	<.009

Remark codes used in this table:  
 < -- Less than.  
 E -- Estimated.  
 M-- Presence verified but not quantified.

WATER-COLUMN BACTERIA ANALYSES

Samples were collected synoptically over a 30-day period during the summer.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Entero-cocci, m-E MF, water, col/ 100 mL (31649)	E coli, m-TEC MF, water, col/ 100 mL (31633)	Fecal coli-form, ECbroth water, MPN/ 100 mL (31615)
MAY 04...	1028	10	<100	<20
MAY 11...	1110	30	<100	<20
MAY 19...	1055	<10	<100	<20
MAY 25...	1035	180	<100	70
JUN 01...	0955	250	<100	40

Remark codes used in this table:  
 < -- Less than.