



Water-Data Report 2009

01368820 DOUBLE KILL AT WAWAYANDA, NJ

HUDSON RIVER BASIN

LOCATION.--Lat 41°11'13", long 74°25'12" referenced to North American Datum of 1983, Vernon Township, Sussex County, NJ, Hydrologic Unit 02020007, 0.3 mi east of Wawayanda, 0.4 mi downstream from Wawayanda Lake, 3.5 mi east of Vernon, and 4.6 mi upstream from Wawayanda Creek.

DRAINAGE AREA.--6.46 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous measurements, water years 1998 to current year.

GAGE.--Staff gage.

**DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Date	Discharge, in ft ³ /s
Nov 12, 2008	8.86
Feb 19, 2009	13.3
May 28, 2009	1.94
Aug 6, 2009	4.35

01368820 DOUBLE KILL AT WAWAYANDA, NJ—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1998 to current year.

REMARKS.--Cooperative Network Site Descriptor: Background, NJ Department of Environmental Protection Watershed Management Area 2.

COOPERATION.--Physical measurements and samples for laboratory analysis were collected in cooperation with 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.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 1 of 5

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

Date	Time	Baro-metric pressure, mm Hg (00025)	Temper-ature, air, deg C (00020)	UV absorb-ance, 254 nm, wat flt units (50624)	UV absorb-ance, 280 nm, wat flt units (61726)	Instan-taneous dis-charge, ft³/s (00061)	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, μS/cm @ 25 degC (00095)	Turbdty white light, wat unf 25 degC (00010)	Dis-solved solids dried @ 90+/-30 degC water, deg C (00010)	Turbdty white light, wat unf 25 degC (63676)	Dis-solved solids dried @ 180degC wat flt mg/L (70300)
Nov 12...	1120	741	8.0	.125	.092	8.9	11.3	96	7.5	270	7.2	1.0	151	
Feb 19...	1100	715	5.0	.117	.087	13	12.5	101	7.5	244	3.7	.9	128	
May 28...	1240	748	19.5	.143	.107	1.9	8.1	88	7.5	277	18.9	2.6	171	
Aug 06...	1130	731	21.0	.379	.285	4.3	7.3	86	7.4	292	23.0	1.7	171	

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 2 of 5

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

Date	Dis-solved solids, sum of constituents, mg/L (70301)	Hard-ness, water, mg/L CaCO ₃ (00900)	Sus-pended solids, water, unfltrd (00530)	Cal-cium, water, unfltrd (00915)	Magnes-iun, water, filtrd, (00925)	Potas-sium, water, filtrd, (00935)	Sodium, water, filtrd, (00930)	ANC, wat unf fixed end pt, lab, mg/L CaCO ₃ (90410)	Total carbon, suspnd sedimnt, mg/L (00694)	Chlor-ide, water, filtrd, mg/L (00940)	Fluor-ide, water, filtrd, mg/L (00950)	Inor-ganic carbon, suspnd sedimnt, total, mg/L (00688)	Silica, water, filtrd, mg/L SiO ₂ (00955)
Nov 12...	E135	65	2	16.9	5.47	.89	25.8	49	.2	44.6	E.07	<.04	4.2
Feb 19...	E121	60	1	15.2	5.22	.76	23.1	43	.4	38.8	E.06	<.04	3.4
May 28...	E134	65	4	17.0	5.54	.56	25.5	48	.4	46.7	E.07	<.04	.9
Aug 06...	E142	66	1	16.7	5.78	.69	28.0	51	.3	50.2	E.05	<.04	3.9

01368820 DOUBLE KILL AT WAWAYANDA, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 3 of 5

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

Date	Sulfate water, filtrd, mg/L (00945)	Ammonia + org-N, water, filtrd, mg/L (00623)	Ammonia water, filtrd, mg/L (00608)	Nitrate nitrite water, filtrd, mg/L (00631)	Ortho-phosphate, water, filtrd, mg/L (00671)	Particulate nitro- gen, susp, water, mg/L (49570)	Phos- phorus, water, filtrd, mg/L (00666)	Phos- phorus, water, unfltrd, mg/L (00665)	Total nitro- gen, water, filtrd, mg/L (00602)	Total nitro- gen, water, unfltrd, mg/L (00600)	Barium, water, recover- able, µg/L (01007)	Beryll- ium, water, recover- able, µg/L (01012)	Cadmium water, unfltrd, µg/L (01027)
Nov 12...	7.75	.27	.026	<.04	E.003	.03	<.008	.011	--	--	--	--	--
Feb 19...	8.75	.26	.014	.06	E.007	.02	E.005	.008	.31	.34	8.1	<.02	<.06
May 28...	8.21	.33	.020	E.03	E.010	.04	.013	.020	E.36	E.40	--	--	--
Aug 06...	6.14	.34	.014	.04	.012	.04	.010	.017	.38	.42	10.5	<.02	<.06

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 4 of 5

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

Date	Chrom- ium, water, unfltrd recover- able, µg/L (01034)	Copper, water, unfltrd recover- able, µg/L (01042)	Iron, water, unfltrd recover- able, µg/L (01045)	Lead, water, unfltrd recover- able, µg/L (01051)	Mangan- ese, water, unfltrd recover- able, µg/L (01055)	Mercury, water, unfltrd recover- able, µg/L (71900)	Nickel, water, unfltrd recover- able, µg/L (01067)	Silver, water, unfltrd recover- able, µg/L (01077)	Zinc, water, unfltrd recover- able, µg/L (01092)	Arsenic, water, filtrd, µg/L (01000)	Arsenic, water, unfltrd, µg/L (01002)	Boron, water, unfltrd recover- able, µg/L (01022)	Selen- ium, water, unfltrd, µg/L (01147)
Nov 12...	--	--	--	--	--	--	--	--	--	--	--	--	--
Feb 19...	<.40	<4.0	27	<.10	9.9	<.010	E.20	<.06	E1.2	.24	.22	E9	<.12
May 28...	--	--	--	--	--	--	--	--	--	--	--	--	--
Aug 06...	<.40	<4.0	132	.86	52.4	<.010	.24	<.06	<2.0	.42	.51	E14	<.12

01368820 DOUBLE KILL AT WAWAYANDA, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008
TO SEPTEMBER 2009

Part 5 of 5

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

Date	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)
Nov		
12...	.22	4.3
Feb		
19...	.35	3.8
May		
28...	.40	4.4
Aug		
06...	.29	5.1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 1 of 7

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

Date	1-Naph-thol, water, fltrd 0.7µ GF	2,6-Di-ethyl-aniline water, fltrd 0.7µ GF	2Chloro-diethyl-acet-anilide water, fltrd wat flt	CIAT, water, fltrd, wat flt	2-Ethyl-6-methyl-aniline water, fltrd, wat flt	3,4-Di-chloro-aniline water, fltrd, wat flt	3,5-Di-chloro-aniline water, fltrd, wat flt	4-Chloro-2-methyl-phenol water, fltrd, wat flt	Aceto-chlor, water, fltrd, wat flt	Ala-chlor, water, fltrd, wat flt	alpha-Endo-sulfan, water, fltrd, wat flt	Atra-zine, water, fltrd, wat flt	Azin-phos-methyl oxon, water, fltrd, wat flt
	µg/L (49295)	µg/L (82660)	µg/L (61618)	µg/L (04040)	µg/L (61620)	µg/L (61625)	µg/L (61627)	µg/L (61633)	µg/L (49260)	µg/L (46342)	µg/L (34362)	µg/L (39632)	µg/L (61635)
May 28...	<.04	<.006	<.010	E.007	<.010	<.004	<.004	<.005	<.010	<.008	<.006	.010	<.04

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 2 of 7

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

Date	Azin-phos-methyl, water, fltrd 0.7µ GF	Ben-flur-alin, water, fltrd 0.7µ GF	Car-baryl, water, fltrd 0.7µ GF	Carbo-furan, water, fltrd 0.7µ GF	Chlor-pyrifos oxon, water, fltrd 0.7µ GF	Chlor-pyrifos water, fltrd, 0.7µ GF	Per-methrin water, fltrd, 0.7µ GF	cis-Methrin water, fltrd, 0.7µ GF	cis-Propiconazole, water, fltrd, 0.7µ GF	Cyana-zine, water, fltrd, 0.7µ GF	Cyflu-thrin, water, fltrd, 0.7µ GF	Cyper-methrin water, fltrd, 0.7µ GF	DCPA, water, fltrd 0.7µ GF	Desulf-inyl-fipro- nil amide, wat flt 0.7µ GF µg/L (82682) (62169)
	µg/L (82686)	µg/L (82673)	µg/L (82680)	µg/L (82674)	µg/L (61636)	µg/L (38933)	µg/L (82687)	µg/L (79846)	µg/L (04041)	µg/L (61585)	µg/L (61586)	µg/L (82682)	µg/L (62169)	
May 28...	<.120	<.014	<.200	<.060	<.05	<.010	<.014	<.010	<.040	<.016	<.020	<.006	<.029	

01368820 DOUBLE KILL AT WAWAYANDA, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

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)	Di- chlor- vos, water, fltrd, μg/L (38775)	Dicro- tophos, water, fltrd, μg/L (38454)	Diel- drin, water, fltrd, μg/L (39381)	Dimeth- oate, water, fltrd 0.7μ GF	Disulf- oton sulfone water, fltrd 0.7μ GF	Disul- foton, water, fltrd 0.7μ GF	Endo- sulfan sulfate water, fltrd 0.7μ GF	EPTC, water, fltrd 0.7μ GF	Ethion monoxon water, fltrd μg/L (82668)	Ethion, Ethion, water, fltrd μg/L (61644)	Etho- prop, water, fltrd μg/L (82346)	Etho- prop, water, fltrd μg/L (82672)
May 28...	<.012	<.005	<.02	<.08	<.009	<.006	<.01	<.04	<.022	<.002	<.02	<.012	<.016	

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 4 of 7

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

Date	Fenami- phos sulfone water, fltrd, μg/L (61645)	Fenami- phos sulfone water, fltrd, μg/L (61646)	Fenami- oxide, water, fltrd, μg/L (61591)	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)	lambda- Cyhalo- thrin, water, fltrd, μg/L (61595)	Mala- xon, water, fltrd, μg/L (61652)	Mala- thion, water, fltrd, μg/L (39532)	
May 28...	<.053	<.08	<.03	<.013	<.024	<.040	<.010	<.008	<.014	<.006	<.010	<.080	<.020	

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 5 of 7

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

Date	Meta- laxyl, water, fltrd, μg/L (61596)	Methid- athion, water, fltrd, μg/L (61598)	Methyl para- thion, water, fltrd, μg/L (61664)	Methyl para- oxon, water, fltrd, μg/L (82667)	Metola- chlor, water, fltrd, μg/L (39415)	Metri- buzin, water, fltrd, μg/L (82630)	Moli- nate, water, fltrd 0.7μ GF	Myclo- butanil water, fltrd, μg/L (82671)	Oxy- fluor- fen, water, fltrd 0.7μ GF	Pendi- meth- alin, water, fltrd 0.7μ GF	Phorate oxon, water, fltrd μg/L (82683)	Phorate water, fltrd μg/L (61666)	Phosmet oxon, water, fltrd μg/L (82664)	Phosmet water, fltrd μg/L (61668)
May 28...	<.007	<.006	<.01	<.008	E.006	<.016	<.002	<.010	<.006	<.012	<.03	<.020	<.05	

01368820 DOUBLE KILL AT WAWAYANDA, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 6 of 7

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

Date	Phosmet	Prome-ton,	Prome-tryn,	Propanil,	Propar-gite,	Propy-zamide,	Tebu-sima-	Teflu-thiuron	Ter-bufos	Terbu-oxon	Ter-buthyl-	Thio-	
	water, fltrd,	water, fltrd,	water, fltrd,	water, 0.7μ GF	water, 0.7μ GF	water, 0.7μ GF	zine, fltrd	water, 0.7μ GF	sulfone	fos, water,	azine, water,	bencarb water,	
	μg/L (61601)	μg/L (04037)	μg/L (04036)	μg/L (82679)	μg/L (82685)	μg/L (82676)	μg/L (04035)	μg/L (82670)	μg/L (61606)	μg/L (61674)	μg/L (82675)	μg/L (04022)	μg/L (82681)
May 28...	<.200	E.01	<.006	<.014	<.02	<.004	<.010	<.02	<.010	<.04	<.02	<.01	<.016

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO
SEPTEMBER 2009

Part 7 of 7

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

Date	trans- Propi- con- zole,	Tri- flur- alin,
	Tribu- phos, water,	water,
	water, fltrd,	fltrd,
	0.7μ GF	0.7μ GF
Date	μg/L (79847)	μg/L (61610)
May 28...	<.02	<.035
		<.012