



Water-Data Report 2006

01464460 LAHAWAY CREEK NEAR HORNERSTOWN, NJ

DELAWARE RIVER BASIN

LOCATION.--Lat 40°06'25", long 74°32'11" referenced to North American Datum of 1983, Upper Freehold Township, Monmouth County, NJ, Hydrologic Unit 02040201, at bridge on New Egypt Road, 0.3 mi upstream of Crosswicks Creek, 1.1 mi west of Hornerstown, and 2.5 mi north of New Egypt.

DRAINAGE AREA.--21.4 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 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 20.

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, ammonia+organic nitrogen in bed sediment, phosphorus in bed sediment, 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	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. conduc- tance, wat unf 25 degC uS/cm (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)
Dec												
01...	0900	Environmental	36	.250	.202	760	9.2	79	6.6	116	7.6	8.4
Feb												
01...	0830	Field Blank	--	--	--	--	--	--	--	--	--	--
01...	0900	Environmental	19	.053	.039	759	12.0	95	7.0	149	6.9	5.0
May												
10...	1000	Environmental	5.0	.103	.081	758	10.5	104	7.0	156	19.0	14.4
Aug												
08...	0930	Environmental	8.9	.319	.260	760	6.5	77	7.2	158	24.5	23.5

01464460 LAHAWAY CREEK NEAR HORNERSTOWN, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 2 of 5

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

Date	Hard- ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf	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	Residue	Residue
						fixed end pt, lab, mg/L as CaCO3 (90410)					water, fltrd, consti- tuents mg/L (70301)	on evap. at 180degC wat flt mg/L (70300)	total at 105 deg. C, sus- pended, mg/L (00530)
Dec 01...	25	7.08	1.85	3.29	7.46	9	13.6	.10	8.1	15.0	64	76	15
Feb 01...	--	--	--	--	--	--	--	--	--	--	--	--	--
01...	33	9.49	2.38	2.26	10.4	11	20.6	.13	8.9	17.6	81	83	7
May 10...	41	12.5	2.29	2.36	9.91	17	20.3	.17	8.2	16.7	84	99	3
Aug 08...	46	14.5	2.44	3.03	9.72	26	20.4	.17	10.2	11.8	89	118	7

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

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)	Nitrite + nitrate water fltrd, mg/L as N (00631)	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)
	Dec 01...	.50	.050	.39	.10	.89	.99	<.010	.019	.176	1.1	<.1	1.1
Feb 01...	--	--	--	--	--	--	--	--	--	--	--	--	--
01...	.52	.060	.64	.06	1.2	1.2	<.010	.009	.082	.7	<.1	.7	2.4
May 10...	.19	.051	.25	.03	.44	.47	<.010	.016	.048	.3	<.1	.3	2.3
Aug 08...	.40	.037	.28	.05	.68	.73	.016	.021	.104	.5	<.1	.5	4.3

01464460 LAHAWAY CREEK NEAR HORNERSTOWN, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 4 of 5

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

Date	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	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 fltrd, ug/L (01020)	Boron, unfltrd recover -able, ug/L (01022)	Cadmium water, unfltrd ug/L (01027)	Chrom- ium, water, unfltrd recover -able, ug/L (01034)	Copper, water, fltrd, ug/L (01040)	Copper, unfltrd recover -able, ug/L (01042)	Iron, water, unfltrd recover -able, ug/L (01045)	Lead, water, fltrd, ug/L (01049)
Dec 01...	<1.0	--	--	--	--	20	--	--	--	--	--	--	--
Feb 01...	--	<.12	--	--	--	--	--	--	--	<.4	--	--	<.08
01...	<1.0	.21	.60	33.4	.12	17	13	.11	3.4	--	.9	2,300	--
May 10...	<1.0	--	--	--	--	18	--	--	--	--	--	--	--
Aug 08...	<1.0	.52	1.2	34.2	E.04	23	25	.06	.97	--	.7	3,100	--

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 5 of 5

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

Date	Lead, water, unfltrd recover -able, ug/L (01051)	Mangan- ese, water, unfltrd recover -able, ug/L (01055)	Mercury water, unfltrd recover fltrd, ug/L (71890)	Mercury water, unfltrd recover -able, ug/L (71900)	Nickel, water, unfltrd recover fltrd, ug/L (01065)	Nickel, water, unfltrd recover -able, ug/L (01067)	Selen- ium, water, unfltrd recover ug/L (01147)	Silver, water, unfltrd recover -able, ug/L (01077)	Zinc, water, fltrd, ug/L (01090)	Zinc, unfltrd recover -able, ug/L (01092)
Dec 01...	--	--	--	--	--	--	--	--	--	--
Feb 01...	--	--	<.010	--	<.06	--	--	--	<.6	--
01...	.68	40.8	--	<.010	--	3.56	E.07	<.16	--	16
May 10...	--	--	--	--	--	--	--	--	--	--
Aug 08...	.36	29.9	--	<.010	--	2.13	.14	<.16	--	5

01464460 LAHAWAY CREEK NEAR HORNERSTOWN, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 1 of 4

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

Date	Time	pH bed sedimnt std units (70310)	Ammonia + org-N, bed sed total, mg/kg as N (00626)	Phos- phorus, bed sedimnt total, mg/kg (00668)	Total carbon, bed sedimnt total, g/kg (00693)	Inor- ganic carbon, bed sedimnt total, g/kg (00686)	Arsenic bed sedimnt recover- able, ug/g (64847)	Cadmium bed sedimnt recover- able, ug/g (01028)	Chrom- ium, bed sedimnt recover- able, ug/g (01029)	Cobalt bed sedimnt recover- able, ug/g (01038)	Copper, bed sedimnt recover- able, ug/g (01043)	Iron, bed sedimnt total, ug/g (01170)	Lead, bed sedimnt recover- able, ug/g (01052)
Aug 08...	0930	6.34	70	990	.6	<.2	.3	.020	2.6	.170	<2	1,800	2.2

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 2 of 4

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

Date	Mangan- ese, bed sedimnt recover- able, ug/g (01053)	Mercury bed sedimnt recover- able, ug/g (71921)	Nickel, bed sedimnt recover- able, ug/g (01068)	Sele- nium, bed sedimnt recover- able, ug/g (64848)	Zinc, bed sedimnt recover- able, ug/g (01093)	1,2-Di- methyl- naphth- alene, bed sed <2 mm, ug/kg (49403)	1,6-Di- methyl- naphth- alene, bed sed <2 mm, ug/kg (49404)	1Methyl -9H- fluor- ene, bed sed <2 mm, ug/kg (49398)	1- Methyl- phenan- threne, bed sed <2 mm, ug/kg (49410)	1- Methyl- pyrene, bed sed <2 mm, ug/kg (49388)	236Tri- methyl- naphth- alene, bed sed <2 mm, ug/kg (49405)	2,6-Di- methyl- naphth- alene, bed sed <2 mm, ug/kg (49406)	2-Ethyl naphth- alene bed sed <2 mm, wsv nat ug/kg (49948)
Aug 08...	4.8	<.007	.300	<.1	3.7	<50	<50	<50	<50	<50	<50	<50	<50

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 3 of 4

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

Date	2- Methyl- anthra- cene, bed sed <2 mm, ug/kg (49435)	4H-Cyc- lopenta- -[def]- phenan- threne, bs <2mm ug/kg (49411)	9H- Fluor- ene, bed sed <2 mm, wsv nat ug/kg (49399)	Ace- naphth- ene, bed sed <2 mm, wsv nat ug/kg (49429)	Ace- naphth- ylene, bed sed <2 mm, wsv nat ug/kg (49428)	Anthra- cene, bed sed <2 mm, wsv nat field, ug/kg (49434)	Benzo- [a]- anthra- cene, bed sed <2 mm, ug/kg (49436)	Benzo- [a]- pyrene, bed sed <2 mm, wsv nat ug/kg (49389)	Benzo- [b]- fluor- anthene bed sed <2 mm, ug/kg (49458)	Benzo- [ghi]- peryl- ene, bed sed <2 mm, ug/kg (49408)	Benzo- [k]- fluor- anthene bed sed <2 mm, ug/kg (49397)	Chry- sene, bed sed <2 mm, wsv nat field, ug/kg (49450)	Dibenzo -[a,h]- anthra- cene, bed sed <2 mm, ug/kg (49461)
Aug 08...	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50

01464460 LAHAWAY CREEK NEAR HORNERSTOWN, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 4 of 4

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

Date	Fluor-anthene bed sed <2 mm wsv nat field, ug/kg (49466)	Indeno- [1,2-3-cd]-pyrene, bed sed <2 mm ug/kg (49390)	Iso-phorone bed sed <2 mm wsv nat field, ug/kg (49400)	Naphth-alene, bed sed <2 mm wsv nat field, ug/kg (49402)	PCBs, bed sedimnt ug/kg (39519)	p-Cresol, bed sed <2 mm wsv nat field, ug/kg (49451)	Phenan-threne, bed sed <2 mm wsv nat field, ug/kg (49409)	Phenan-thri-dine, bed sed <2 mm wsv nat field, ug/kg (49393)	Pyrene, bed sed <2 mm wsv nat field, ug/kg (49387)	Bed sedi- ment, dry svd sve dia percent (80164)	Bed sedi- ment, falidia dst wat percent (80157)
Aug 08...	E6	<50	<50	<50	<5.00	<50	<50	<50	E5	.1	.1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 1 of 5

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Date	Time	2,4-D methyl ester, water, fltrd, ug/L (50470)	2,4-D water, fltrd, ug/L (39732)	2,4-DB water, fltrd, 0.7u GF ug/L (38746)	CIAT, water, fltrd, ug/L (04040)	CEAT, water, fltrd, ug/L (04038)	OIET, water, fltrd, ug/L (50355)	3-Hydroxy carbo-furan, wat flt 0.7u GF ug/L (49308)	Aci-fluor-fen, water, fltrd, 0.7u GF ug/L (49315)	Aldi-carb sulfone, water, fltrd, 0.7u GF ug/L (49313)	Aldi-carb oxide, wat flt 0.7u GF ug/L (49314)	Aldi-carb, water, fltrd, 0.7u GF ug/L (49312)	Atra-zine, water, fltrd, ug/L (39632)
May 10...	1000	<.016	<.04	<.02	<.03	<.08	E.016	<.008	<.028	<.02	<.022	<.04	E.004

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 2 of 5

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

Date	Bendio-carb, water, fltrd, ug/L (50299)	Benomyl water, fltrd, ug/L (50300)	Bensul-furon- methyl, water, fltrd, ug/L (61693)	Ben-tazon, water, fltrd, 0.7u GF ug/L (38711)	Broma-cil, water, fltrd, ug/L (04029)	Brom-oxynil, water, fltrd, 0.7u GF ug/L (49311)	Caf-feine, water, fltrd, ug/L (50305)	Car-baryl, water, fltrd, 0.7u GF ug/L (49310)	Carbo-furan, water, fltrd, 0.7u GF ug/L (49309)	Chlor-amben methyl ester, water, fltrd, ug/L (61188)	Chlori-muron, water, fltrd, ug/L (50306)	Chloro-di-amino-s-tri-azine, wat flt ug/L (04039)	Clopyr-alid, water, fltrd, 0.7u GF ug/L (49305)
May 10...	<.02	<.022	<.02	<.01	<.02	<.03	E.011	E.01	<.016	<.02	<.032	<.04	<.02

01464460 LAHAWAY CREEK NEAR HORNERSTOWN, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 3 of 5

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

Date	Cyclo- ate, water, fltrd, ug/L (04031)	Dacthal mono- acid, water, fltrd, 0.7u GF ug/L (49304)	Dicamba water, fltrd, 0.7u GF ug/L (38442)	Di- chlor- prop, water, fltrd, 0.7u GF ug/L (49302)	Dinoseb water, fltrd, 0.7u GF ug/L (49301)	Diphen- amid, water, fltrd, ug/L (04033)	Diuron, water, fltrd, 0.7u GF ug/L (49300)	Fenuron water, fltrd, 0.7u GF ug/L (49297)	Flumet- sulam, water, fltrd, ug/L (61694)	Fluo- meturon water, fltrd, 0.7u GF ug/L (38811)	Imaza- quin, water, fltrd, ug/L (50356)	Imaze- thapyr, water, fltrd, ug/L (50407)	Imida- cloprid water, fltrd, ug/L (61695)
May 10...	<.01	<.03	<.04	<.03	<.04	<.01	<.02	<.02	<.04	<.02	<.04	<.04	<.020

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 4 of 5

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

Date	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)	Meta- laxyl, water, fltrd, ug/L (50359)	Methio- carb, water, fltrd, 0.7u GF ug/L (38501)	Meth- omyl, water, fltrd, 0.7u GF ug/L (49296)	Metsul- furon, water, fltrd, ug/L (61697)	N-(4- Chloro- phenyl) -N'- methyl- urea, ug/L (61692)	Neburon water, fltrd, 0.7u GF ug/L (49294)	Nico- sul- furon, water, fltrd, ug/L (50364)	Norflur azon, water, fltrd, 0.7u GF ug/L (49293)	Ory- zalin, water, fltrd, 0.7u GF ug/L (49292)	Oxamyl, water, fltrd, 0.7u GF ug/L (38866)
May 10...	<.01	<.03	<.01	<.01	<.010	<.020	<.07	<.04	<.01	<.04	<.02	<.01	<.03

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 5 of 5

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

Date	Pic- loram, water, fltrd, 0.7u GF ug/L (49291)	Propham water, fltrd, 0.7u GF ug/L (49236)	Propi- cona- zole, water, fltrd, ug/L (50471)	Pro- poxur, water, fltrd, 0.7u GF ug/L (38538)	Siduron water, fltrd, ug/L (38548)	Sulfo- met- ruron, water, fltrd, ug/L (50337)	Tebu- thiuron water, fltrd, 0.7u GF ug/L (82670)	Terba- cil, water, fltrd, ug/L (04032)	Tri- clopyr, water, fltrd, 0.7u GF ug/L (49235)
May 10...	<.03	<.030	<.01	<.008	<.02	<.091	<.026	<.016	<.03

01464460 LAHAWAY CREEK NEAR HORNERSTOWN, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Date	Time	Temper- ature, water, deg C (00010)	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)
Jun					
15...	1110	14.4	800	550	700
22...	1042	21.8	460	40	130
Jul					
13...	1030	24.1	480	40	500
20...	1045	24.7	720	10	300
27...	1114	24.0	430	380	230