01411295 TUCKAHOE RIVER AT ROUTE 49 AT HUNTERS MILL, NJ

GREAT EGG HARBOR RIVER BASIN

LOCATION.--Lat 39°19′26″, long 74°51′40″ referenced to North American Datum of 1983, Estell Manor City, Atlantic County, NJ, Hydrologic Unit 02040302, on Tuckahoe River at State Route 49, 200 ft west from Hunters Mill, 2.0 mi upstream from confluence with Tarkiln Brook, and 3.0 mi southeast from Estell Manor Road.

DRAINAGE AREA.--17.8 mi^2.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 2006 to August 2007.

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). Cooperative Network Site Descriptor: Statewide Status, NJ Department of Environmental Protection Watershed Management Area 15.

COOPERATION.--Physical measurements and samples for laboratory analyses were provided by personnel of the NJ Department of Environmental Protection. Determinations of dissolved ammonia, dissolved orthophosphate, suspended residue, ammonia-plus-organic nitrogen in bed sediment, and phosphorus in bed sediment were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 1 of 5
[Remark codes: <, less than; E, estimated.]

Date	Time	Turbdty 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-ic conduc-tance, wat unf µS/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)
Nov													
27...	1000	.7	.576	.446	771	8.5	70	4.3	51	12.0	7.8	4	.68
Feb													
27...	1000	1.7	.259	.201	760	12.8	97	4.5	37	6.0	3.5	4	.55
May													
17...	0930	.6	.418	.331	762	8.6	93	5.0	31	20.0	19.2	3	.56
Aug													
16...	1000	.8	.086	.070	760	9.8	105	6.1	28	28.0	19.1	6	1.31

01411295 TUCKAHOE RIVER AT ROUTE 49 AT HUNTERS MILL, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 2 of 5
[Remark codes: <, less than; E, estimated.]

Date	Magnes-ium, water, fltrd, mg/L (00925)	Potas-sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf 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 flt mg/L (70300)	Residue total non-filter-able, mg/L (00530)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia water, fltrd, mg/L as N (00608)
Nov													
27...	.664	.63	2.84	--	5.45	<.10	7.2	3.06	--	43	1	.37	.026
Feb													
27...	.591	.44	2.59	<5	4.70	<.10	5.2	3.04	--	26	2	.33	<.010
May													
17...	.457	.56	2.71	<5	4.99	<.10	2.3	1.98	--	90	1	.59	<.010
Aug													
16...	.544	.75	2.57	2.6	4.20	<.10	3.7	1.79	16	25	5	.18	.033

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 3 of 5
[Remark codes: <, less than; E, estimated.]

Date	Nitrate + nitrite water fltrd, mg/L as N (00631)	Partic-ulate nitro-gen, susp, water, mg/L (49570)	Total nitro-gen, water, fltrd, mg/L (00602)	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)	Arsenic water, fltrd, µg/L (01000)	Arsenic water, unfltrd µg/L (01002)	Barium, water, unfltrd recover-able, µg/L (01007)
Nov													
27...	.08	<.02	.45	E.006	E.008	E.007	.2	<.1	.2	11.3	--	--	--
Feb													
27...	.13	<.02	.46	E.008	E.004	E.005	.3	<.1	.3	5.7	.12	<.20	17.4
May													
17...	<.06	.03	--	<.010	E.006	E.007	.2	<.1	.2	8.7	--	--	--
Aug													
16...	E.06	.04	--	<.010	.018	.026	.6	<.1	.6	1.6	E.11	E.11	16.7

01411295 TUCKAHOE RIVER AT ROUTE 49 AT HUNTERS MILL, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 4 of 5
[Remark codes: <, less than; E, estimated.]

Date	Beryll-ium, water, unfltrd recover-able, µg/L (01012)	Boron, water, fltrd, µg/L (01020)	Boron, water, unfltrd recover-able, µg/L (01022)	Cadmium water, unfltrd µg/L (01027)	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)	Selen-ium, water, unfltrd µg/L (01147)	Silver, water, unfltrd recover-able, µg/L (01077)
Nov													
27...	--	11	--	--	--	--	--	--	--	--	--	--	--
Feb													
27...	E.06	7.2	E7	.02	<.60	E.7	117	.40	6.1	E.010	.74	E.05	<.02
May													
17...	--	10	--	--	--	--	--	--	--	--	--	--	--
Aug													
16...	<.06	8.5	E8	E.01	<.60	<1.2	94	.23	3.3	<.010	.54	<.08	<.02

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 5 of 5
[Remark codes: <, less than; E, estimated.]

Date	Zinc, water, unfltrd recover-able, µg/L (01092)
Nov	
27...	--
Feb	
27...	4
May	
17...	--
Aug	
16...	2.2

01411295 TUCKAHOE RIVER AT ROUTE 49 AT HUNTERS MILL, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 1 of 4
[Remark codes: <, less than.]

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 16...	1000	5.32	60	220	.5	<.2	.6	.010	8.8	<.1	<6	3,900	7.5

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 2 of 4
[Remark codes: <, less than.]

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, wsv nat 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 16...	5.7	<.007	.4	<.1	<9.3	<50	<50	<50	<50	<50	<50	<50	<50

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 3 of 4
[Remark codes: <, less than.]

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 16...	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50

01411295 TUCKAHOE RIVER AT ROUTE 49 AT HUNTERS MILL, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 4 of 4
[Remark codes: <, less than.]

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 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 ug/kg (49393)	Pyrene, bed sed <2 mm, wsv nat field, ug/kg (49387)	Bed sedi-ment, dry svd sve dia percent <.063mm (80164)
Aug										
16...	<50	<50	<50	<50	<5.00	<50	<50	<50	<50	1