

01411110 GREAT EGG HARBOR RIVER AT WEYMOUTH, NJ

LOCATION.--Lat 39°30'50", long 74°46'46", Atlantic County, Hydrologic Unit 02040302, at bridge on U.S. Route 322 in Weymouth, 0.5 mi upstream from Deep Run, and 20.9 mi upstream from mouth.

DRAINAGE AREA.--154 mi².

PERIOD OF RECORD.--Water years 1975 to current year.

REMARKS.--Total nitrogen (00600) equals the sum of dissolved ammonia plus organic nitrogen (00623), dissolved nitrite plus nitrate nitrogen (00631), and total particulate nitrogen (49570). Additional trace-element data for this and other stations are presented in "High-Flow Trace-Elements in Selected Streams of New Jersey (303d)" in the Water-Quality at Special-Study Sites section of this report.

COOPERATION.--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, and total suspended residue were determined by the New Jersey Department of Health and Senior Services, Public Health and Environmental Laboratories, Environmental and Chemical Laboratory Services. Concentrations of fecal coliform, E. coli, and enterococcus bacteria in samples were determined by the New Jersey Department of Environmental Protection, Bureau of Marine Water Monitoring Laboratory.

COOPERATIVE NETWORK SITE DESCRIPTOR.--Watershed Integrator, New Jersey Department of Environmental Protection Watershed Management Area 15.

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

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity white light, det ang 90+/-30 corrctd NTRU (63676)	UV absorbance, 254 nm, wat flt units /cm (50624)	UV absorbance, 280 nm, wat flt units /cm (61726)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)
Date	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, fltrd, mg/L as N (00623)
Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Particulate nitrogen, susp, water, mg/L (49570)	Total nitrogen, water, fltrd, mg/L (00602)	Total nitrogen, water, unfltrd mg/L (00660)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)
NOV 29...	0930	273	5.9	.561	.441	768	9.7	83	4.7	64	7.0	9.1	10
FEB 02...	1220	181	2.5	.214	.168	773	13.1	94	5.6	82	7.0	2.2	13
MAY 18...	1200	175	3.1	.298	.234	766	8.8	88	6.0	69	19.0	15.7	10
AUG 23...	0950	86	2.4	.154	.122	762	8.1	89	6.3	61	26.0	20.4	10
NOV 29...	2.13	1.21	1.50	6.32	2	10.4	<.1	6.5	6.2	37	61	9	.42
FEB 02...	2.67	1.47	1.26	9.35	3	15.3	<.1	7.0	6.2	49	57	--	.25
MAY 18...	2.04	1.26	1.14	6.77	4	10.9	<.1	4.8	4.8	37	44	--	.30
AUG 23...	2.20	1.19	1.41	5.80	6	9.41	<.1	6.4	4.8	38	51	4	.17
NOV 29...	.060	.32	.009	.05	.74	.79	<.010	.012	.029	.7	<.1	.7	10.4
FEB 02...	.121	.72	--	.06	.97	1.0	<.006	E.004	.010	1.1	<.1	1.1	4.4
MAY 18...	.048	.53	--	.12	.82	.95	E.004	.006	.025	1.5	<.1	1.5	5.2
AUG 23...	.046	.61	--	.03	.79	.81	E.008	.005	.019	.5	<.1	.5	2.7

GREAT EGG HARBOR RIVER BASIN

01411110 GREAT EGG HARBOR RIVER AT WEYMOUTH, NJ—Continued

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

Date	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	Boron, water, fltrd, ug/L (01020)	Sus- pended sedi- ment concen- tration mg/L (80154)	Sus- pended sedi- ment dis- charge, tons/d (80155)
NOV 29...	E2.1	30	--	--
FEB 02...	--	31	2	.98
MAY 18...	<1.0	33	48	23
AUG 23...	<1.0	39	--	--

Remark codes used in this table:

< -- Less than.

E -- Estimated.

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 19...	0933	19	44	33
26...	0952	137	77	67
JUN 02...	0954	37	49	47
09...	0858	51	70	123
16...	1040	67	63	67