



Water-Data Report 2007

01408009 MINGAMAHONE BROOK NEAR EARLE, NJ

MANASQUAN RIVER BASIN

LOCATION.--Lat 40°12'45", long 74°10'06" referenced to North American Datum of 1983, Howell Township, Monmouth County, NJ, Hydrologic Unit 02040301, at bridge on Cranberry Bog Road, 0.6 mi upstream from East Branch Mingamahone Brook, and 1.7 mi west of Earle.

DRAINAGE AREA.--3.32 mi².

SURFACE-WATER RECORDS

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

GAGE.--Staff gage.

**DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Date	Discharge, in ft ³ /s
Nov 18, 2006	36.9
Feb 8, 2007	4.68
May 2, 2007	10.4
Aug 15, 2007	1.83

01408009 MINGAMAHONE BROOK NEAR EARLE, NJ—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1971-74, 1998 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). Cooperative Network Site Descriptor: Undeveloped Land Use Indicator, NJ Department of Environmental Protection Watershed Management Area 12.

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 2006 TO SEPTEMBER 2007**

Part 1 of 4

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

Date	Time	Turbdty white light, det ang 90+/-30 dis- charge, corrctd	UV absorb- ance, 254 nm, wat flt units	UV absorb- ance, 280 nm, wat flt units	Baro- metric pres- sure, mm Hg (61726)	Dis- solved oxygen, mg/L (00025)	Dis- solved oxygen, percent of sat- uration (00300)	pH, water, unfltrd field, std units	Specif- ic conduc- tance, μS/cm (00400)	Temper- ature, 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 CaCO ₃ (00900)
Nov 08...	1100	37	52	.449	.369	752	7.8	71	5.9	113	14.5	10.6	21
Feb 08...	1100	4.7	10	.226	.190	759	11.4	81	6.0	158	-6.0	1.2	33
May 02...	1120	10	7.9	.309	.245	764	8.1	78	5.8	90	21.0	13.6	20
Aug 15...	1130	1.8	63	.327	.275	758	7.9	81	6.7	142	28.5	16.8	48

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 2 of 4

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

Date	Calcium water, filtrd, mg/L (00915)	Magnes- ium, water, filtrd, mg/L (00925)	Potas- sium, water, filtrd, mg/L (00935)	Sodium, water, filtrd, mg/L (00930)	ANC, fixed end pt, lab, mg/L as CaCO ₃ (90410)	Chlor- ide, water, filtrd, mg/L (00940)	Fluor- ide, water, filtrd, mg/L (00950)	Silica, water, filtrd, mg/L (00955)	Sulfate water, filtrd, mg/L (00945)	Residue water, filtrd, 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, filtrd, mg/L as N (00623)
Nov 08...	6.27	1.39	1.85	7.05	6	12.8	E.09	11.6	15.4	60	78	56	.16
Feb 08...	10.3	1.71	1.99	8.20	13	12.7	E.07	14.1	19.0	76	86	22	.28
May 02...	5.88	1.31	1.59	6.43	<5	10.6	<.10	9.4	15.1	--	71	13	.23
Aug 15...	16.8	1.48	1.83	5.12	32	10.8	E.09	19.2	14.5	92	123	15	.21

01408009 MINGAMAHONE BROOK NEAR EARLE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 3 of 4

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

Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water mg/L (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- phosphate, 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 water, fltrd, mg/L (00681)	Boron, fltrd, µg/L (01020)
Nov 08...	.026	E.03	.30	--	--	E.005	.014	.095	8.0	<.1	7.9	6.4	17
Feb 08...	.056	.07	.08	.35	.43	E.006	<.008	.052	1.6	<.1	1.6	2.2	14
May 02...	.021	E.05	.08	--	--	E.005	E.008	.023	1.6	<.1	1.6	4.9	17
Aug 15...	.112	E.03	.13	--	--	E.006	<.008	.071	2.7	<.1	2.6	3.1	20

**WATER-QUALITY
DATA
WATER YEAR
OCTOBER 2006 TO
SEPTEMBER 2007**

Part 4 of 4

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

Date	Iron, water, fltrd, µg/L (01046)
Nov 08...	--
Feb 08...	--
May 02...	--
Aug 15...	3,190