

Water-Data Report 2009

01401595 ROCK BROOK NEAR BLAWENBURG, NJ

RARITAN RIVER BASIN

LOCATION.--Lat 40°24'47", long 74°41'02" referenced to North American Datum of 1983, Montgomery Township, Somerset County, NJ, Hydrologic Unit 02030105, on downstream left wingwall of bridge on Burnt Hill Road, 0.7 mi upstream from mouth, 1.0 mi northeast of Blawenburg, and 2.8 mi northwest of Rocky Hill.

DRAINAGE AREA.--9.03 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Water years 1967 to current year.

GAGE.--Crest-stage gage. Datum of gage is 63.45 ft above NGVD of 1929, from levels.

REMARKS.--Bridge and crest-stage gage were replaced in 1998-99.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,530 ft³/s, Aug 28, 1971, gage height, 10.00 ft.

PEAK DISCHARGES FOR CURRENT YEAR.--Maximum discharge, 1,150 ft³/s, Aug 22, gage height, 5.37 ft.

01401595 ROCK BROOK NEAR BLAWENBURG, NJ—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2005, 2009.

REMARKS.--Cooperative Network Site Descriptor: Statewide Status, NJ Department of Environmental Protection Watershed Management Area 10.

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, 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 pres- sure, mm Hg (00025)	Temper- ature, air, deg C (00020)	UV absorb- ance, 254 nm, wat flt units /cm (50624)	UV absorb- ance, 280 nm, wat flt units /cm (61726)	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, water, deg C (00010)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	Dis- solved solids dried @ 180degC wat flt mg/L (70300)	Dis- solved solids, sum of consti- tuents, mg/L (70301)
Nov 12...	1000	771	7.5	.080	.060	10.1	82	7.6	337	6.5	7.6	192	189
Mar 11...	0900	761	7.0	.081	.062	9.7	81	7.6	282	7.2	3.3	168	E153
May 27...	0900	763	12.5	.149	.116	7.1	71	7.5	242	15.2	6.2	144	E134
Aug 17...	0900	765	22.0	.163	.124	6.3	74	7.5	201	23.3	3.0	129	E114

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 2 of 5

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

Date	Hard- ness, water, mg/L as CaCO3 (00900)	Sus- pended solids, water, unfltrd mg/L (00530)	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 fixed end pt, lab, mg/L as CaCO3 (90410)	Total carbon, suspnd sedimnt total, mg/L (00694)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Inor- ganic carbon, suspnd sedimnt total, mg/L (00688)	Silica, water, fltrd, mg/L as SiO2 (00955)	Sulfate water, fltrd, mg/L (00945)
Nov 12...	110	1	27.9	9.42	3.84	20.4	68	.4	32.0	.17	<.04	12.2	28.2
Mar 11...	70	2	16.6	6.82	1.52	25.2	39	.6	47.3	E.04	<.04	12.8	18.0
May 27...	75	7	18.9	6.82	1.75	16.6	57	.7	25.9	E.10	<.04	10.1	16.9
Aug 17...	68	1	17.0	6.21	1.90	11.4	57	.4	16.5	E.04	<.04	12.7	12.5

01401595 ROCK BROOK NEAR BLAWENBURG, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

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)	Nitrate + nitrite water, fltrd, mg/L as N (00631)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Particulate nitrogen, susp, water, mg/L (49570)	Phosphorus, water, fltrd, mg/L as P (00666)	Phosphorus, water, unfltrd, mg/L as P (00665)	Total nitrogen, water, fltrd, mg/L (00602)	Total nitrogen, water, unfltrd, mg/L (00600)	Barium, water, unfltrd recover-able, µg/L (01007)	Beryllium, water, unfltrd recover-able, µg/L (01012)	Cadmium, water, unfltrd, µg/L (01027)	Chromium, water, unfltrd recover-able, µg/L (01034)
Nov 12...	.26	.025	3.13	.051	.04	.053	.068	3.4	3.4	--	--	--	--
Mar 11...	.47	.018	.33	.011	.09	.017	.035	.80	.89	44.4	<.02	<.06	E.28
May 27...	.42	.050	.60	.010	.10	.021	.044	1.0	1.1	--	--	--	--
Aug 17...	.33	.196	.38	.019	.04	.031	.041	.71	.75	36.9	E.01	<.06	E.29

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 4 of 5

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

Date	Copper, water, unfltrd recover-able, µg/L (01042)	Iron, water, unfltrd recover-able, µg/L (01045)	Lead, water, unfltrd recover-able, µg/L (01051)	Manganese, 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, fltrd, µg/L (01000)	Arsenic, water, unfltrd, µg/L (01002)	Boron, water, unfltrd recover-able, µg/L (01022)	Selenium, water, unfltrd, µg/L (01147)	Organic carbon, suspnd sedimnt total, mg/L (00689)
Nov 12...	--	--	--	--	--	--	--	--	--	--	--	--	.37
Mar 11...	<4.0	196	.27	36.5	<.010	.55	<.06	E1.6	.41	.42	24	E.09	.55
May 27...	--	--	--	--	--	--	--	--	--	--	--	--	.71
Aug 17...	<4.0	203	.29	28.7	<.010	.66	<.06	2.2	1.2	1.4	37	.17	.35

01401595 ROCK BROOK NEAR BLAWENBURG, NJ—Continued

WATER-QUALITY
DATAWATER YEAR
OCTOBER 2008 TO
SEPTEMBER 2009

Part 5 of 5

[Remark codes:

<, less than;

E, estimated.]

Date	Organic carbon, water, fltrd, mg/L (00681)
Nov 12...	2.9
Mar 11...	2.5
May 27...	4.3
Aug 17...	5.1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 1 of 7

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

Date	1-Naphthol, water, fltrd 0.7µ GF µg/L (49295)	2,6-Diethyl-aniline, water, fltrd 0.7µ GF µg/L (82660)	2Chloro-2',6'-diethyl acet-anilide, wat flt µg/L (61618)	CIAT, water, fltrd µg/L (04040)	2-Ethyl-6-methyl-aniline, wat flt µg/L (61620)	3,4-Di-chloro-aniline, water, fltrd, µg/L (61625)	3,5-Di-chloro-aniline, water, fltrd, µg/L (61627)	4-Chloro-2-methyl-phenol, wat flt µg/L (61633)	Aceto-chlor, water, fltrd, µg/L (49260)	Ala-chlor, water, fltrd, µg/L (46342)	alpha-Endo-sulfan, water, fltrd, µg/L (34362)	Atra-zine, water, fltrd, µg/L (39632)	Azin-phos-methyl oxon, water, fltrd, µg/L (61635)
May 27...	<.04	<.006	<.010	E.051	<.010	<.004	<.004	<.005	.034	E.006	<.006	.101	<.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 µg/L (82686)	Ben-flur-alin, water, fltrd 0.7µ GF µg/L (82673)	Car-baryl, water, fltrd 0.7µ GF µg/L (82680)	Carbo-furan, water, fltrd 0.7µ GF µg/L (82674)	Chlor-pyrifos, water, fltrd, µg/L (61636)	Chlor-pyrifos, water, fltrd, µg/L (38933)	cis-Per-methrin, water, fltrd, 0.7µ GF µg/L (82687)	cis-Propi-cona-zole, water, fltrd, µg/L (79846)	Cyana-zine, water, fltrd, µg/L (04041)	Cyflu-thrin, water, fltrd, µg/L (61585)	Cyper-methrin, water, fltrd, µg/L (61586)	DCPA, water, fltrd 0.7µ GF µg/L (82682)	Desulf-inyl-fipro-nil amide, wat flt µg/L (62169)
May 27...	<.120	<.014	E.016	<.060	<.05	<.010	<.014	<.006	<.040	<.016	<.020	<.006	<.029

01401595 ROCK BROOK NEAR BLAWENBURG, 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 µg/L (82662)	Disulf- oton sulfone water, fltrd, µg/L (61640)	Disul- foton, water, fltrd, 0.7µ GF µg/L (82677)	Endo- sulfan sulfate water, fltrd, µg/L (61590)	EPTC, water, fltrd, 0.7µ GF µg/L (82668)	Ethion monoxon water, fltrd, µg/L (61644)	Ethion, water, fltrd, µg/L (82346)	Etho- prop, water, fltrd, 0.7µ GF µg/L (82672)
May 27...	<.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 oxide, water, fltrd, µg/L (61646)	Fenami- phos, 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- oxon, water, fltrd, µg/L (61652)	Mala- thion, water, fltrd, µg/L (39532)
May 27...	<.053	<.08	<.03	<.013	<.024	E.004	<.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- oxon, water, fltrd, µg/L (61664)	Methyl para- thion, water, fltrd, 0.7µ GF µg/L (82667)	Metola- chlor, water, fltrd, µg/L (39415)	Metri- buzin, water, fltrd, µg/L (82630)	Moli- nate, water, fltrd, 0.7µ GF µg/L (82671)	Myclo- butanil water, fltrd, µg/L (61599)	Oxy- fluor- fen, water, fltrd, µg/L (61600)	Pendi- meth- alin, water, fltrd, 0.7µ GF µg/L (82683)	Phorate oxon, water, fltrd, µg/L (61666)	Phorate water, fltrd, 0.7µ GF µg/L (82664)	Phosmet oxon, water, fltrd, µg/L (61668)
May 27...	<.007	<.006	<.01	<.008	.035	<.016	<.002	<.010	<.006	<.012	<.03	<.020	<.05

01401595 ROCK BROOK NEAR BLAWENBURG, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 6 of 7

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

Date	Phosmet water, fltrd, µg/L (61601)	Prometon, water, fltrd, µg/L (04037)	Prometryn, water, fltrd, µg/L (04036)	Propanil, water, fltrd, 0.7µ GF µg/L (82679)	Propargite, water, fltrd, 0.7µ GF µg/L (82685)	Propyzamide, water, fltrd, 0.7µ GF µg/L (82676)	Simazine, water, fltrd, µg/L (04035)	Tebu-thiuron water, fltrd, 0.7µ GF µg/L (82670)	Tefluthrin, water, fltrd, µg/L (61606)	Terbufos sulfone water, fltrd, µg/L (61674)	Terbufos, water, fltrd, 0.7µ GF µg/L (82675)	Terbutylazine, water, fltrd, µg/L (04022)	Thiocarb water, fltrd, 0.7µ GF µg/L (82681)
May 27...	<.200	E.01	<.006	<.014	<.02	<.004	E.006	<.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-Propiconazole, water, fltrd, µg/L (79847)	Tribu-phos, water, fltrd, µg/L (61610)	Tri-fluralin, water, fltrd, 0.7µ GF µg/L (82661)
May 27...	<.02	<.035	<.012

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 1 of 4

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

Date	Time	Moisture, bed sed <2 mm, wsv nat fld dry percent (49282)	pH bed sedimnt std units (70310)	Total carbon, bed sedimnt total, g/kg (00693)	Inorganic carbon, bed sedimnt total, g/kg (00686)	Phosphorus, bed sedimnt total, mg/kg as P (00668)	Cadmium bed sedimnt recover -able, µg/g (01028)	Chromium, bed sedimnt recover -able, µg/g (01029)	Cobalt bed sedimnt recover -able, µg/g (01038)	Copper, bed sedimnt recover -able, µg/g (01043)	Iron, bed sedimnt total digest, µg/g (01170)	Lead, bed sedimnt recover -able, µg/g (01052)	Manganese, bed sedimnt recover -able, µg/g (01053)
Aug 17...	0900	26	7.21	3.8	<.2	E160	.290	54	26.2	39	44,000	31	1,600

01401595 ROCK BROOK NEAR BLAWENBURG, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 2 of 4

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

Date	Mercury bed sedimnt recover- able, µg/g (71921)	Nickel, bed sedimnt recover- able, µg/g (01068)	Zinc, bed sedimnt recover- able, µg/g (01093)	Arsenic bed sedimnt recover- able, µg/g (64847)	Sele- nium, bed sedimnt recover- able, µg/g (64848)	p- Cresol, bed sed <2 mm, wsv nat field, µg/kg (49451)	PCBs, bed sedimnt µg/kg (39519)	1,2-Di- methyl- naphth- alene, bed sed <2 mm, µg/kg (49403)	1,6-Di- methyl- naphth- alene, bed sed <2 mm, µg/kg (49404)	1Methyl -9H- fluor- ene, bed sed <2 mm, µg/kg (49398)	1- Methyl- phenan- threne, bed sed <2 mm, µg/kg (49410)	1- Methyl- pyrene, bed sed <2 mm, wsv nat µg/kg (49388)	236Tri- methyl- naphth- alene, bed sed <2 mm, µg/kg (49405)
Aug 17...	.011	41.1	120	12.3	.4	<55	<5.00	<55	<55	<55	E26	E34	<55

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 3 of 4

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

Date	2,6-Di- methyl- naphth- alene, bed sed <2 mm, µg/kg (49406)	2-Ethyl naphth- alene bed sed <2 mm, wsv nat µg/kg (49948)	2- Methyl- anthra- cene, bed sed <2 mm, µg/kg (49435)	4H-Cyc- lopenta- -[def]- phenan- threne, bs <2mm µg/kg (49411)	9H- Fluor- ene, bed sed <2 mm, wsv nat µg/kg (49399)	Ace- naphth- ene, bed sed <2 mm, wsv nat µg/kg (49429)	Ace- naphth- ylene, bed sed <2 mm, wsv nat µg/kg (49428)	Anthra- cene, bed sed <2 mm, wsv nat field, µg/kg (49434)	Benzo- [a]- anthra- cene, bed sed <2 mm, µg/kg (49436)	Benzo- [a]- pyrene, bed sed <2 mm, wsv nat µg/kg (49389)	Benzo- [b]- fluor- anthene bed sed <2 mm, µg/kg (49458)	Benzo- [ghi]- peryl- ene, bed sed <2 mm, µg/kg (49408)	Benzo- [k]- fluor- anthene bed sed <2 mm, µg/kg (49397)
Aug 17...	<55	<55	<55	E36	E11	E9	E12	E51	240	250	340	E140	130

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 4 of 4

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

Date	Chry- sene, bed sed <2 mm, wsv nat field, µg/kg (49450)	Dibenzo -[a,h]- anthra- cene, bed sed <2 mm, µg/kg (49461)	Fluor- anthene bed sed <2 mm, wsv nat field, µg/kg (49466)	Indeno- [1,2,- 3-cd]- pyrene, bed sed <2 mm, µg/kg (49390)	Iso- phorone bed sed <2 mm, wsv nat field, µg/kg (49400)	Naphth- alene, bed sed <2 mm, wsv nat µg/kg (49402)	Phenan- threne, bed sed <2 mm, wsv nat field, µg/kg (49409)	Phenan- thri- dine, bed sed <2 mm, wsv nat µg/kg (49393)	Pyrene, bed sed <2 mm, wsv nat field, µg/kg (49387)	Bed sedimnt dry svd sve dia percent <0.0625 mm (80164)
Aug 17...	250	E45	420	E140	<55	<55	150	<55	350	1.0