

## Water-Data Report 2007

**01381260 DISMAL BROOK AT MOUNT PLEASANT ROAD, AT MOUNT FREEDOM, NJ**

PASSAIC RIVER BASIN

LOCATION.--Lat 40°48'43", long 74°34'09" referenced to North American Datum of 1983, Mendham Township, Morris County, NJ, Hydrologic Unit 02030103, at bridge on Mount Pleasant Road, 120 ft upstream from unnamed pond, 660 ft northeast from Lake Drive, 1.0 mi south from Mount Freedom, and 1.2 mi north of Brookside.

DRAINAGE AREA.--0.99 mi<sup>2</sup>.

**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 6.

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 2006 TO SEPTEMBER 2007**

Part 1 of 5

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

Date	Time	Sample type	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	UV absorb- ance, wat flt units	UV absorb- ance, wat flt units	Baro- metric pres- sure, mm Hg	Dis- solved oxygen, mg/L	Dis- solved oxygen, percent of sat- uration	pH, water, unfiltrd field, std units	Specif- ic conduc- tance, wat unf μS/cm	Temper- ature, air, deg C	Temper- ature, water, deg C
Nov 29...	0925	Environmental	.6	.037	.028	754	10.2	92	7.5	420	13.5	10.1
Mar 06...	0931	Field Blank	--	--	--	--	--	--	--	--	--	--
06...	0945	Environmental	1.0	.022	.016	752	17.1	117	7.2	410	-10.0	.1
May 30...	0900	Environmental	1.2	.030	.025	750	9.3	91	7.6	464	17.0	13.2
Aug 21...	0900	Field Blank	--	--	--	--	--	--	--	--	--	--
21...	0930	Environmental	59	.172	.133	749	8.6	85	7.4	182	16.0	14.5

## 01381260 DISMAL BROOK AT MOUNT PLEASANT ROAD, AT MOUNT FREEDOM, NJ—Continued

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

Date	Hardness, water, mg/L as CaCO <sub>3</sub> (00900)	ANC, wat unf fixed						Chlor- ide, lab, mg/L as CaCO <sub>3</sub> (90410)	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)
		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)	Chlor- ide pt, lab, mg/L as CaCO <sub>3</sub> (90410)	Fluor- ide, water, fltrd, mg/L (00950)							
Nov 29...	93	24.6	7.61	2.28	39.4	35	93.8	<.10	16.3	10.6	223	243	2	
Mar 06...	--	--	--	--	--	--	--	--	--	--	--	--	--	
06...	92	23.6	8.04	1.82	35.5	33	93.7	E.06	15.5	10.4	216	241	2	
May 30...	110	29.3	9.29	2.25	40.0	42	103	<.10	18.5	11.1	248	--	2	
Aug 21...	--	--	--	--	--	--	--	--	--	--	--	--	--	
21...	43	11.3	3.71	1.44	14.4	27	32.0	<.10	7.6	5.01	93	112	76	

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

Date	Ammonia + org-N, water, fltrd, mg/L as N (00623)		Nitrate Ammonia water, fltrd, mg/L as N (00608)	Partic- ulate nitrite water, fltrd, mg/L as N (00631)	Total nitro- gen, water, fltrd, mg/L (49570)	Total nitro- gen, water, unfiltrd, mg/L (00602)	Ortho- phosphate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L as P (00666)	Phos- phorus, water, unfiltrd, mg/L as P (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)
Nov 29...	.20	E.007	1.72	<.02	1.9	--	E.003	<.008	E.005	<.1	<.1	<.1	1.4
Mar 06...	--	--	--	--	--	--	--	--	--	--	--	--	--
06...	<.10	.029	1.76	<.02	--	--	E.009	<.008	E.004	.2	<.1	.2	1.0
May 30...	.14	<.010	1.98	.03	2.1	2.1	E.006	E.005	E.006	.3	<.1	.3	1.1
Aug 21...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	.23	.032	.42	.57	.65	1.2	.012	.016	.133	7.3	<.1	7.3	4.1

## 01381260 DISMAL BROOK AT MOUNT PLEASANT ROAD, AT MOUNT FREEDOM, NJ—Continued

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

Date	Arsenic		Barium		Beryllium		Boron		Cadmium		Chromium		Copper		Iron		Lead								
	water, fltrd, unfltrd	µg/L (01000)	water, recover -able,	µg/L (01002)	water, unfltrd	µg/L (01007)	water, recover -able,	µg/L (01012)	water, fltrd,	µg/L (01020)	water, recover -able,	µg/L (01022)	water, unfltrd	µg/L (01027)	water, recover -able,	µg/L (01034)	water, fltrd,	µg/L (01040)	water, recover -able,	µg/L (01042)	water, unfltrd	µg/L (01045)	water, recover -able,	µg/L (01049)	water, fltrd, unfltrd
Nov 29...	--	--	--	--	--	11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Mar 06...	<.12	--	--	--	--	--	--	--	--	--	--	E.28	--	--	--	<.12	--	--	--	--	--	--	--	--	
06...	E.06	<.20	77.8	<.06	7.6	E7	.03	<.60	--	E.6	.56	--	.07	--	--	--	--	--	--	--	--	--	--	--	
May 30...	--	--	--	--	--	9.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Aug 21...	<.12	--	--	--	--	--	--	--	--	--	<.40	--	--	--	<.12	--	--	--	--	--	--	--	--	--	
21...	.23	.78	54.4	.14	12	11	.09	1.6	--	5.2	2,880	--	6.18	--	--	--	--	--	--	--	--	--	--	--	

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

Date	Manganese		Mercury		Nickel		Selenium		Silver		Zinc						
	water, unfltrd	µg/L (01055)	water, recover -able,	µg/L (71890)	water, unfltrd	µg/L (71900)	Nickel, water, fltrd,	µg/L (01065)	water, unfltrd	µg/L (01067)	Selenium, water, unfltrd	µg/L (01147)	water, recover -able,	µg/L (01077)	water, fltrd,	µg/L (01090)	water, recover -able,
Nov 29...	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mar 06...	--	<.010	--	<.06	--	--	--	--	--	--	<.60	--	--	--	--	--	--
06...	19.7	--	E.005	--	.35	.20	<.02	--	--	--	4	--	--	--	--	--	--
May 30...	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aug 21...	--	<.010	--	E.03	--	--	--	--	--	--	<.60	--	--	--	--	--	--
21...	164	--	.015	--	1.4	.19	.02	--	--	--	17.5	--	--	--	--	--	--

**01381260 DISMAL BROOK AT MOUNT PLEASANT ROAD, AT MOUNT FREEDOM, NJ—Continued**

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

Part 1 of 7

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

Date	1-Naph-thol, water, fltrd 0.7u GF	2,6-Di-ethyl-aniline water, fltrd 0.7u GF	2Chloro- -2',6'-diethyl acetanilide water flt	CIAT, water, fltrd, 0.7u GF	2-Ethyl- -6-methyl-chloro-aniline water, fltrd, 0.7u GF	3,4-Di-chloro-aniline water, fltrd, 0.7u GF	3,5-Di-chloro-aniline water, fltrd, 0.7u GF	4-Chloro- 2methyl-phenol, water, fltrd, 0.7u GF	Aceto-chlor, water, fltrd, 0.7u GF	Ala-chlor, water, fltrd, 0.7u GF	alpha-Endosulfan, water, fltrd, 0.7u GF	Atra-zine, water, fltrd, 0.7u GF	Azin-phos-methyl oxon, water, fltrd, 0.7u GF
	µg/L (49295)	µg/L (82660)	µg/L (61618)	µg/L (04040)	µg/L (61620)	µg/L (61625)	µg/L (61627)	µg/L (61633)	µg/L (49260)	µg/L (46342)	µg/L (34362)	µg/L (39632)	µg/L (61635)
<b>May 30...</b>	<.09	<.006	<.006	E.006	<.010	<.004	<.012	<.005	<.006	<.005	<.011	E.007	<.04

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

Part 2 of 7

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

Date	Azin-phos-methyl, water, fltrd 0.7u GF	Ben-flur-alin, water, fltrd 0.7u GF	Car-baryl, water, fltrd 0.7u GF	Carbo-furan, water, fltrd 0.7u GF	Chlor-pyrifos oxon, water, fltrd 0.7u GF	Chlor-pyrifos water, fltrd, 0.7u GF	Per-methrin water, fltrd, 0.7u GF	cis-Permethrin water, fltrd, 0.7u GF	Propi-conazole, water, fltrd, 0.7u GF	Cyana-zine, water, fltrd, 0.7u GF	Cyflu-thrin, water, fltrd, 0.7u GF	Lambda-Cyhalothrin, water, fltrd, 0.7u GF	Cyper-methrin water, fltrd, 0.7u GF	DCPA, water, fltrd 0.7u GF
	µg/L (82686)	µg/L (82673)	µg/L (82680)	µg/L (82674)	µg/L (61636)	µg/L (38933)	µg/L (82687)	µg/L (79846)	µg/L (04041)	µg/L (61585)	µg/L (61595)	µg/L (61586)	µg/L (82682)	
<b>May 30...</b>	<.080	<.010	<.060	<.020	<.06	<.005	<.010	<.013	<.018	<.053	<.014	<.046	<.003	

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

Part 3 of 7

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

Date	Desulf-inyl-fipro-nil, water, fltrd 0.7u GF	Diazi-non, water, fltrd 0.7u GF	Dicro-tophos, water, fltrd 0.7u GF	Diel-drin, water, fltrd 0.7u GF	Dimeth-oate, water, fltrd 0.7u GF	Disulf-ton, sulfone water, fltrd 0.7u GF	Disul-foton, water, fltrd 0.7u GF	Endo-sulfan, sulfate water, fltrd 0.7u GF	EPTC, water, fltrd 0.7u GF	Ethion, monoxon water, fltrd 0.7u GF	Ethion, water, fltrd 0.7u GF	Etho-prop, water, fltrd 0.7u GF	Fenami-phos sulfone water, fltrd 0.7u GF
	µg/L (62170)	µg/L (39572)	µg/L (38454)	µg/L (39381)	µg/L (82662)	µg/L (61640)	µg/L (82677)	µg/L (61590)	µg/L (82668)	µg/L (61644)	µg/L (82346)	µg/L (82672)	µg/L (61645)
<b>May 30...</b>	E.004	<.005	<.08	<.009	<.006	<.01	<.02	<.022	<.002	<.02	<.016	<.012	<.053

## 01381260 DISMAL BROOK AT MOUNT PLEASANT ROAD, AT MOUNT FREEDOM, NJ—Continued

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

Part 4 of 7

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

Date	Fenami-phos sulf-oxide, water, fltrd, µg/L (61646)	Fenami-phos, water, fltrd, µg/L (61591)	Desulf-inyl-amide, wat flt µg/L (62169)	Fipro-nil sulfide µg/L (62167)	Fipro-nil sulfone 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)	Mala-oxon, water, fltrd, µg/L (61652)	Mala-thion, water, fltrd, µg/L (39532)	Meta-laxyl, water, fltrd, µg/L (61596)
May 30...	<.04	<.03	<.029	E.005	<.024	E.006	<.006	<.026	<.026	<.011	<.039	<.016	<.007

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

Part 5 of 7

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

Date	Methi-althion water, fltrd, µg/L (61598)	Methyl para-thion, water, fltrd, 0.7u GF µg/L (61664)	Methyl para-chlor, water, fltrd, 0.7u GF µg/L (82667)	Metola-chlor, water, fltrd, µg/L (39415)	Metribuzin, water, fltrd, µg/L (82630)	Moli-nate, water, fltrd, 0.7u GF µg/L (82671)	Myclo-butanol water, fltrd, µg/L (61599)	Oxy-fluor-fen, water, fltrd, 0.7u GF µg/L (61600)	Pendi-methalin, water, fltrd, 0.7u GF µg/L (82683)	Phorate oxon, water, fltrd, 0.7u GF µg/L (61666)	Phorate water, fltrd, 0.7u GF µg/L (82664)	Phosmet water, fltrd, µg/L (61601)	Prometon, water, fltrd, µg/L (04037)
May 30...	<.009	<.02	<.008	E.006	<.012	<.003	<.033	<.017	<.020	<.03	<.020	<.008	<.01

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

Part 6 of 7

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

Date	Prome-tryn, water, fltrd, 0.7u GF µg/L (04036)	Propy-zamide, water, fltrd, 0.7u GF µg/L (82676)	Propanil, water, fltrd, 0.7u GF µg/L (82679)	Propar-gite, water, fltrd, 0.7u GF µg/L (82685)	Sima-zine, water, fltrd, µg/L (04035)	Tebu-thiuron water, fltrd, 0.7u GF µg/L (82670)	Teflu-thrin, water, fltrd, µg/L (61606)	Ter-bufos water, fltrd, µg/L (61674)	Terbu-fos, water, fltrd, 0.7u GF µg/L (82675)	Ter-buthyl-azine, water, fltrd, 0.7u GF µg/L (04022)	Thio-bencarb, water, fltrd, 0.7u GF µg/L (82681)	trans-Propi-conazole, water, fltrd, 0.7u GF µg/L (79847)	Tribu-phos, water, fltrd, µg/L (61610)
May 30...	<.006	<.004	<.011	<.02	<.006	<.02	<.003	<.04	<.01	<.01	<.010	<.03	<.035

**01381260 DISMAL BROOK AT MOUNT PLEASANT ROAD, AT MOUNT FREEDOM, NJ—Continued**

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

Part 7 of 7  
[Remark codes: <, less than;  
E, estimated.]

Date	Tri-flur-alin, water, 0.7u GF	Di-chlor-vos, water, fltrd, fltrd,	µg/L	µg/L
May 30...	(82661)	(38775)	<.009	<.01