

Water-Data Report 2009

01407988 MARSH BOG BROOK NEAR SHACKS CORNER, NJ

MANASQUAN RIVER BASIN

LOCATION.--Lat 40°12'52", long 74°10'54" referenced to North American Datum of 1983, Monmouth County, NJ, Hydrologic Unit 02040301, at bridge on Cranberry Road, 1.1 mi southeast of Shacks Corner, 1.6 mi northwest of Farmingdale, 2.7 mi east of Ardena, and 4.9 mi upstream from mouth.

DRAINAGE AREA.--2.05 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1904, 1973-74, 2009.

REMARKS.--Cooperative Network Site Descriptor: Statewide Status, NJ Department of Environmental Protection Watershed Management Area 12.

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 4

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

Date	Time	Baro-metric pressure, 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 saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif-ic conduc-tance, µS/cm @ 25 degC (00095)	Turbdty white light, det ang 90+/-30 corrcrd (00010)	Dis-solved solids dried @ 180degC wat flt mg/L (70300)	Hard-ness, water, mg/L as CaCO ₃ (00900)
Dec												
04...	0900	763	11.0	.463	.350	10.0	75	4.3	73	3.3	1.3	53
Feb												
04...	0945	759	3.5	.209	.159	11.4	81	5.0	60	1.2	1.5	44
May												
06...	0845	763	15.5	.606	.475	6.9	64	4.5	59	12.2	8.2	44
Aug												
05...	0930	758	27.0	.161	.119	5.4	63	4.8	46	22.3	6.8	55
												5

01407988 MARSH BOG BROOK NEAR SHACKS CORNER, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 2 of 4

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

Date	Sus-	Total				Inor-			Ammonia				
	suspended solids, water, unfiltrd mg/L (00530)	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)	carbon, suspnd sediment total, mg/L (00694)	Chlor- ide, water, filtrd, mg/L (00940)	Fluor- ide, water, filtrd, mg/L (00950)	carbon, suspnd sediment total, mg/L (00688)	Silica, water, filtrd, mg/L SiO2 (00955)	Sulfate water, filtrd, mg/L (00945)	org-N, water, filtrd, mg/L as N (00623)	Ammonia water, filtrd, mg/L as N (00608)
Dec 04...	3	1.56	.975	.58	3.67	.4	5.99	<.08	<.04	7.5	10.8	.28	.016
Feb 04...	5	1.67	.927	.83	3.55	.5	5.87	<.08	<.04	8.9	12.6	.14	.028
May 06...	18	1.45	.680	.84	3.66	4.7	6.33	<.08	<.04	7.2	9.75	.30	.027
Aug 05...	34	1.27	.529	.78	2.99	6.9	5.32	<.08	<.04	8.5	4.77	.74	.112

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 3 of 4

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

Date	Nitrate + nitrite water, filtrd, mg/L as N (00631)	Ortho- phosphate, water, filtrd, mg/L as P (00671)	Partic- ulate nitro- gen, susp, water, mg/L (49570)	Phos- phorus, water, filtrd, mg/L as P (00666)	Phos- phorus, water, unfiltrd mg/L as P (00665)	Total nitro- gen, water, filtrd, mg/L (00602)	Total nitro- gen, water, unfiltrd mg/L (00600)	Barium, water, unfiltrd recover -able, μg/L (01007)	Beryll- ium, water, unfiltrd recover -able, μg/L (01012)	Cadmium water, unfiltrd recover -able, μg/L (01027)	Chrom- ium, water, unfiltrd recover -able, μg/L (01034)	Copper, water, unfiltrd recover -able, μg/L (01042)	Iron, water, unfiltrd recover -able, μg/L (01045)
	E.03	E.006	.03	E.005	.009	E.31	E.34	--	--	--	--	--	--
Dec 04...	E.03	E.006	.03	E.005	.009	E.31	E.34	--	--	--	--	--	--
Feb 04...	.04	E.008	.03	E.007	.014	.19	.22	22.0	.16	.11	1.6	5.0	2,040
May 06...	<.04	E.003	.25	E.007	.033	--	--	--	--	--	--	--	--
Aug 05...	<.04	E.004	.34	.017	.043	--	--	13.5	.05	<.06	3.9	<4.0	6,430

01407988 MARSH BOG BROOK NEAR SHACKS CORNER, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 4 of 4

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

Date	Mangan-											
	Lead, water, unfltrd recover -able, µg/L (01051)	ese, 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, unfltrd 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 total, mg/L (00689)	Organic carbon, water, filtrd, mg/L (00681)
Dec 04...	--	--	--	--	--	--	--	--	--	--	.38	10.1
Feb 04...	.68	17.5	<.010	2.4	<.06	34.2	.28	.36	E12	E.08	.47	4.6
May 06...	--	--	--	--	--	--	--	--	--	--	4.65	10.5
Aug 05...	1.97	10.8	.013	2.3	<.06	13.2	2.4	2.6	E12	.30	6.87	23.9

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 1 of 7

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

Date	2,6-Di-ethyl-aniline, water, filtrd 0.7µ GF µg/L (49295)	2Chloro-2'-6'-diethyl acetanilide, water, wat filt 0.7µ GF µg/L (82660)	CIAT, water, filtrd, wat filt µg/L (61618)	2-Ethyl-6-methyl-aniline, water, filtrd, wat filt µg/L (04040)	3,4-Di-chloro-aniline, water, filtrd, wat filt µg/L (61620)	3,5-Di-chloro-aniline, water, filtrd, wat filt µg/L (61625)	4-Chloro-2-methyl-phenol, water, filtrd, wat filt µg/L (61627)	Aceto-chlor, water, filtrd, wat filt µg/L (61633)	Ala-chlor, water, filtrd, wat filt µg/L (49260)	alpha-Endosulfan, water, filtrd, wat filtrd, µg/L (46342)	Atrazine, water, filtrd, wat filtrd, µg/L (34362)	Azinophos-methyl oxon, water, filtrd, µg/L (39632)	
May 06...	<.04	<.006	<.010	<.014	<.010	<.004	<.004	<.005	<.010	<.008	<.006	E.005	<.04

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 2 of 7

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

Date	Azinophos-methyl, water, filtrd 0.7µ GF µg/L (82686)	Ben-flur-alin, water, filtrd 0.7µ GF µg/L (82673)	Car-baryl, water, filtrd 0.7µ GF µg/L (82680)	Carbo-furan, water, filtrd 0.7µ GF µg/L (82674)	Chlor-pyrifos, oxon, water, filtrd, wat filtrd, µg/L (61636)	Chlor-pyrifos, water, filtrd, wat filtrd, µg/L (38933)	cis-Permethrin, water, filtrd, wat filtrd, µg/L (82687)	cis-Propiconazole, water, filtrd, wat filtrd, µg/L (79846)	Cyana-zine, water, filtrd, wat filtrd, µg/L (04041)	Cyflu-thrin, water, filtrd, wat filtrd, µg/L (61585)	Cyper-methrin, water, filtrd, wat filtrd, µg/L (61586)	DCPA, water, filtrd, wat filtrd, µg/L (82682)	Desulf-inyl-fipronil amide, wat filt µg/L (62169)
May 06...	<.120	<.014	<.200	<.060	<.05	<.010	<.014	<.006	<.040	<.016	<.020	<.006	<.029

01407988 MARSH BOG BROOK NEAR SHACKS CORNER, 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	Disulf- oton sulfone water, fltrd 0.7μ GF	Disul- foton, water, fltrd 0.7μ GF	Endo- sulfan sulfate water, fltrd 0.7μ GF	EPTC, water, fltrd 0.7μ GF	Ethion monoxon water, fltrd 0.7μ GF	Ethion, water, fltrd 0.7μ GF	Etho- prop, water, fltrd 0.7μ GF
May 06...	<.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 sulfone 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- xon, water, fltrd, μg/L (61652)	Mala- thion, water, fltrd, μg/L (39532)
May 06...	<.053	<.08	<.03	<.013	<.024	<.040	<.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- thion, water, fltrd, μg/L (61664)	Methyl para- oxon, water, fltrd, μg/L (82667)	Metola- chlor, water, fltrd, μg/L (39415)	Metri- buzin, water, fltrd, μg/L (82630)	Moli- nate, water, fltrd 0.7μ GF	Myclo- butanil water, fltrd, μg/L (82671)	Oxy- fluor- fen, water, fltrd 0.7μ GF	Pendi- meth- alin, water, fltrd 0.7μ GF	Phorate oxon, water, fltrd 0.7μ GF	Phorate water, fltrd 0.7μ GF	Phosmet oxon, water, fltrd 0.7μ GF
May 06...	<.007	<.006	<.01	<.008	E.005	<.016	<.002	<.010	<.006	<.012	<.03	<.020	<.05

01407988 MARSH BOG BROOK NEAR SHACKS CORNER, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 6 of 7

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

Date	Phosmet	Promo-ton, water, fltrd, μg/L (61601)	Promo-ton, 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 0.7μ GF μg/L (04035)	Tebuthiuron, water, fltrd 0.7μ GF μg/L (82670)	Tefluthrin, water, fltrd 0.7μ GF μg/L (61606)	Terbufos oxon sulfone μg/L (61674)	Terbufos, water, fltrd 0.7μ GF μg/L (82675)	Terbutylazine, water, fltrd μg/L (04022)	Thiobencarb water, fltrd μg/L (82681)
May 06...	<.200	<.01	<.006	<.014	<.02	<.004	<.010	.03	<.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- Propi- conazole, water, fltrd, μg/L (79847)	Tri- flur- alin, phos, water, fltrd, μg/L (61610)	Tri- flu- ralin, water, fltrd 0.7μ GF μg/L (82661)
May 06...	<.02	<.035	<.012

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 1 of 4

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Mois-ture, bed sed <2 mm, wsv nat fld dry percent (49282)	Inor-pH bed bed sedimnt std units (70310)	Phos-total ganic carbon, carbon, sedimnt total, g/kg (00693)	Chrom-phorus, Cadmium bed bed sedimnt total, mg/kg (00686)	Cobalt ium, bed bed bed bed sedimnt recover -able, μg/g (01028)	Copper, Iron, bed bed bed bed sedimnt recover -able, μg/g (01029)	Lead, ese, bed bed sedimnt recover -able, μg/g (01043)	Mangan- Mercury bed bed sedimnt recover -able, μg/g (01170)
Aug 05...	42	6.60	9.1	.2	M	.020	15	.1
							<4	13,000
								9.3
								7.7
								<.007

01407988 MARSH BOG BROOK NEAR SHACKS CORNER, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 2 of 4

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	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 wsv nat field, sedimnt μg/kg (49451)	1,2-Di- methyl- naphth- PCBs, bed sedimnt μg/kg (39519)	1,6-Di- methyl- naphth- alene, bed sed bed sedimnt μg/kg (49403)	1Methyl -9H- naphth- alene, bed sed bed sed bed sed μg/kg (49404)	1- Methyl- phenan- threne, bed sed bed sed bed sed μg/kg (49398)	1- Methyl- pyrene, bed sed wsv nat μg/kg (49410)	236Tri- methyl- naphth- alene, bed sed bed sed bed sed μg/kg (49405)	2,6-Di- methyl- naphth- alene, bed sed bed sed bed sed μg/kg (49406)	
	μg/g	μg/g	μg/g	μg/g	μg/kg	μg/kg	μg/kg	μg/kg	μg/kg	μg/kg	μg/kg	μg/kg	
Aug 05...	.8	<6.2	3.3	.2	E3	<5.00	<55	<55	<55	E1	<55	<55	<55

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 3 of 4

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	2-Ethyl naphth- alene <2 mm wsv nat μg/kg (49948)	2- Methyl- anthra- cene, <2 mm bed sed bs <2mm μg/kg (49435)	4H-Cyc- lopenta- [def]- phenan- threne, <2 mm, wsv nat μg/kg (49411)	9H- Fluor- ene, <2 mm, wsv nat μg/kg (49399)	Ace- naphth- ene, <2 mm, wsv nat μg/kg (49429)	Ace- naphth- ylene, <2 mm, wsv nat μg/kg (49428)	Anthra- cene, bed sed bed sed bed sed field, μg/kg (49434)	Benzo- [a]- anthra- cene, bed sed bed sed bed sed wsv nat μg/kg (49436)	Benzo- [a]- pyrene, bed sed bed sed bed sed wsv nat μg/kg (49389)	Benzo- [b]- fluor- ene, bed sed bed sed bed sed wsv nat μg/kg (49458)	Benzo- [ghi]- peryl- ene, bed sed bed sed bed sed wsv nat μg/kg (49408)	Benzo- [k]- fluor- ene, bed sed bed sed bed sed field, μg/kg (49397)	Chry- sene, bed sed wsv nat μg/kg (49450)
	μg/kg	μg/kg	μg/kg	μg/kg	μg/kg	μg/kg	μg/kg	μg/kg	μg/kg	μg/kg	μg/kg	μg/kg	μg/kg
Aug 05...	<55	<55	E3	E3	<55	E2	E5	E8	E9	E18	E5	E8	E9

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 4 of 4

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Dibenzo -[a,h]- anthra- cene, bed sed <2 mm, field, μg/kg (49461)	Fluor- anthene bed sed wsv nat μg/kg (49466)	Indeno- [1,2,- 3-cd]- pyrene, bed sed bed sed wsv nat μg/kg (49390)	Iso- phorone bed sed <2 mm, wsv nat μg/kg (49400)	Naphth- alene, bed sed bed sed wsv nat μg/kg (49402)	Phenan- threne, bed sed <2 mm, wsv nat μg/kg (49409)	Phenan- threne, bed sed <2 mm, wsv nat μg/kg (49393)	Pyrene, bed sed <2 mm, wsv nat μg/kg (49387)	Bed dry svd sve dia percent <0.0625 mm mm
	μg/kg	μg/kg	μg/kg	μg/kg	μg/kg	μg/kg	μg/kg	μg/kg	sedimnt
Aug 05...	<55	E44	E6	<55	<55	E18	<55	E35	3.0