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Water-Data Report 2009

01408380 BLACKS BRANCH AT LAKEHURST, NJ

TOMS RIVER BASIN

LOCATION.--Lat 40°00′31″, long 74°19′48″ referenced to North American Datum of 1983, Manchester Township, Ocean County, NJ, Hydrologic Unit 02040301, at bridge on State Route 70, 100 ft upstream from Horicon Lake, 0.8 mi southwest of Lakehurst, and 4.5 northeast of Whiting.

DRAINAGE AREA.--7.61 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 2008 to August 2009

REMARKS.--Cooperative Network Site Descriptor: Statewide Status, NJ Department of Environmental Protection Watershed Management Area 13.

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	Barometric pressure, mm Hg (00025)	Temperature, air, deg C (00020)	UV absorbance, 254 nm, wat flt units /cm (50624)	UV absorbance, 280 nm, wat flt units /cm (61726)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf µS/cm @ 25 degC (00095)	Temperature, water, deg C (00010)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	Dissolved solids dried @ 180degC wat flt mg/L (70300)	Hardness, water, mg/L as CaCO3 (00900)
Dec													
10...	0800	763	16.0	.164	.126	9.4	78	4.5	53	7.0	.6	35	5
Feb													
03...	0730	757	1.0	.205	.160	10.1	77	4.4	58	4.0	.5	32	4
May													
14...	0800	770	15.0	.379	.298	6.7	64	4.4	48	13.1	.7	34	3
Aug													
13...	0830	761	20.1	.646	.513	5.2	56	4.4	42	19.4	1.6	44	3

01408380 BLACKS BRANCH AT LAKEHURST, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 2 of 4
[Remark codes: <, less than; E, estimated.]

Date	Suspended solids, water, unfltrd mg/L (00530)	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)	Total carbon, suspnd sedimnt total, mg/L (00694)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	Silica, water, fltrd, mg/L as SiO2 (00955)	Sulfate water, fltrd, mg/L (00945)	Ammonia + org-N, water, fltrd, mg/L as N (00623)
Dec													
10...	<1	.77	.680	.72	4.33	<1.7	.2	6.80	<.08	<.04	5.6	5.13	.13
Feb													
03...	3	.69	.560	.61	3.92	--	.2	7.03	<.08	<.04	4.8	5.08	.14
May													
14...	6	.57	.479	.53	3.72	--	.3	6.42	<.08	<.04	2.0	4.12	.27
Aug													
13...	1	.57	.474	.40	3.33	--	.8	5.32	<.08	<.04	5.0	2.97	.33

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 3 of 4
[Remark codes: <, less than; E, estimated.]

Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water, fltrd, mg/L as N (00631)	Orthophosphate, 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 recoverable, µg/L (01007)	Beryllium, water, unfltrd recoverable, µg/L (01012)	Cadmium water, unfltrd µg/L (01027)	Chromium, water, unfltrd recoverable, µg/L (01034)	Copper, water, unfltrd recoverable, µg/L (01042)
Dec													
10...	E.008	.07	<.010	E.02	<.008	E.004	.20	E.22	--	--	--	--	--
Feb													
03...	.083	.11	E.003	.02	<.008	<.008	.25	.27	23.8	.05	.07	<.40	<4.0
May													
14...	.013	<.04	E.003	E.02	E.007	<.008	--	--	--	--	--	--	--
Aug													
13...	.015	.07	<.010	.05	.009	.013	.41	.46	21.9	.04	.07	E.24	<4.0

01408380 BLACKS BRANCH AT LAKEHURST, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 4 of 4
[Remark codes: <, less than; E, estimated.]

Date	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)	Organic carbon, water, fltrd, mg/L (00681)
Dec 10...	--	--	--	--	--	--	--	--	--	--	--	.23	3.7
Feb 03...	236	.66	18.2	.023	.95	<.06	7.7	.12	E.13	E7	E.07	.23	4.1
May 14...	--	--	--	--	--	--	--	--	--	--	--	.34	6.7
Aug 13...	1,080	1.34	12.2	.040	.97	<.06	6.4	.31	.33	E9	E.11	.83	10.9

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 1 of 7
[Remark codes: <, less than.]

Date	1-Naphthol, water, fltrd 0.7µ GF µg/L (49295)	2,6-Diethylaniline water, fltrd 0.7µ GF µg/L (82660)	2Chloro-2',6'-diethyl acetanilide wat flt µg/L (61618)	CIAT, water, fltrd, µg/L (04040)	2-Ethyl-6-methylaniline wat flt µg/L (61620)	3,4-Dichloroaniline water, fltrd, µg/L (61625)	3,5-Dichloroaniline water, fltrd, µg/L (61627)	4-Chloro-2-methylphenol, wat flt µg/L (61633)	Acetochlor, water, fltrd, µg/L (49260)	Alachlor, water, fltrd, µg/L (46342)	alpha-Endosulfan, water, fltrd, µg/L (34362)	Atrazine, water, fltrd, µg/L (39632)	Azinphosmethyl oxon, water, fltrd, µg/L (61635)
May 14...	<.04	<.006	<.010	<.014	<.010	<.004	<.004	<.005	<.010	<.008	<.006	<.007	<.04

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 2 of 7
[Remark codes: <, less than.]

Date	Azinphosmethyl, water, fltrd 0.7µ GF µg/L (82686)	Benfluralin, water, fltrd 0.7µ GF µg/L (82673)	Carbaryl, water, fltrd 0.7µ GF µg/L (82680)	Carbofuran, water, fltrd 0.7µ GF µg/L (82674)	Chlorpyrifos oxon, water, fltrd, µg/L (61636)	Chlorpyrifos water, fltrd, µg/L (38933)	cis-Permethrin water fltrd 0.7µ GF µg/L (82687)	cis-Propiconazole, water, fltrd, µg/L (79846)	Cyanazine, water, fltrd, µg/L (04041)	Cyfluthrin, water, fltrd, µg/L (61585)	Cypermethrin water, fltrd, µg/L (61586)	DCPA, water, fltrd 0.7µ GF µg/L (82682)	Desulfinylfipronil amide, wat flt µg/L (62169)
May 14...	<.120	<.014	<.200	<.060	<.05	<.010	<.014	<.006	<.040	<.016	<.020	<.006	<.029

01408380 BLACKS BRANCH AT LAKEHURST, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 3 of 7
[Remark codes: <, less than.]

Date	Desulfinylfipronil, water, fltrd, µg/L (62170)	Diazinon, water, fltrd, µg/L (39572)	Dichlorvos, water, fltrd, µg/L (38775)	Dicrotophos, water, fltrd, µg/L (38454)	Dieldrin, water, fltrd, µg/L (39381)	Dimethoate, water, fltrd 0.7µ GF µg/L (82662)	Disulfoton sulfone water, fltrd, µg/L (61640)	Disulfoton, water, fltrd 0.7µ GF µg/L (82677)	Endosulfan 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)	Ethoprop, water, fltrd 0.7µ GF µg/L (82672)
May 14...	<.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.]

Date	Fenamiphos sulfone water, fltrd, µg/L (61645)	Fenamiphos sulfoxide, water, fltrd, µg/L (61646)	Fenamiphos, water, fltrd, µg/L (61591)	Fipronil sulfide water, fltrd, µg/L (62167)	Fipronil sulfone water, fltrd, µg/L (62168)	Fipronil, water, fltrd, µg/L (62166)	Fonofos water, fltrd, µg/L (04095)	Hexazinone, water, fltrd, µg/L (04025)	Iprodione, water, fltrd, µg/L (61593)	Isofenphos, water, fltrd, µg/L (61594)	lambda-Cyhalothrin, water, fltrd, µg/L (61595)	Malaoxon, water, fltrd, µg/L (61652)	Malathion, water, fltrd, µg/L (39532)
May 14...	<.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.]

Date	Metalaxyl, water, fltrd, µg/L (61596)	Methidathion, water, fltrd, µg/L (61598)	Methyl paraoxon, water, fltrd, µg/L (61664)	Methyl parathion, water, fltrd 0.7µ GF µg/L (82667)	Metolachlor, water, fltrd, µg/L (39415)	Metribuzin, water, fltrd, µg/L (82630)	Molinate, water, fltrd 0.7µ GF µg/L (82671)	Myclobutanil water, fltrd, µg/L (61599)	Oxyfluorfen, water, fltrd, µg/L (61600)	Pendimethalin, 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 14...	<.007	<.006	<.01	<.008	<.014	<.016	<.002	<.010	<.006	<.012	<.03	<.020	<.05

01408380 BLACKS BRANCH AT LAKEHURST, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 6 of 7
[Remark codes: <, less than.]

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)	Tebuthiuron water, fltrd 0.7µ GF µg/L (82670)	Tefluthrin, water, fltrd, µg/L (61606)	Terbufos oxon sulfone water, fltrd, µg/L (61674)	Terbufos, water, fltrd 0.7µ GF µg/L (82675)	Terbuthylazine, water, fltrd, µg/L (04022)	Thiobencarb water, fltrd 0.7µ GF µg/L (82681)
May													
14...	<.200	<.01	<.006	<.014	<.02	<.004	<.010	.04	<.010	<.04	<.02	<.01	<.016

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 7 of 7
[Remark codes: <, less than.]

Date	trans-Propiconazole, water, fltrd, µg/L (79847)	Tribuphos, water, fltrd, µg/L (61610)	Trifluralin, water, fltrd 0.7µ GF µg/L (82661)
May			
14...	<.02	<.035	<.012

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
Part 1 of 4
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Date	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 recoverable, µg/g (01028)	Chromium, bed sedimnt recoverable, µg/g (01029)	Cobalt bed sedimnt recoverable, µg/g (01038)	Copper, bed sedimnt recoverable, µg/g (01043)	Iron, bed sedimnt total digest, µg/g (01170)	Lead, bed sedimnt recoverable, µg/g (01052)	Manganese, bed sedimnt recoverable, µg/g (01053)	Mercury bed sedimnt recoverable, µg/g (71921)
Aug													
13...	18	6.12	2.4	<.2	30	.060	5.8	.3	3	1,700	30	9.1	<.007

01408380 BLACKS BRANCH AT LAKEHURST, 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 <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)	2,6-Di-methyl-naphth-alene, bed sed <2 mm, µg/kg (49406)
Aug 13...	1.8	15	.5	<.1	<50	9.64	<50	<50	E9	E4	E2	<50	E2

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 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)	Chry-sene, bed sed <2 mm, wsv nat field, µg/kg (49450)
Aug 13...	<50	E2	E22	E11	E5	E7	E39	60	52	110	E28	E47	82

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, 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 13...	E13	190	E29	<50	E2	E42	M	180	2.0