01407806 HANNABRAND BROOK AT OLD MILL ROAD, NEAR SPRING LAKE HEIGHTS, NJ

SHARK RIVER BASIN

LOCATION.--Lat 40°08′36″, long 74°03′12″ referenced to North American Datum of 1983, Wall Township, Monmouth County, NJ, Hydrologic Unit 02030104, at bridge on Old Mill Road in Spring Lake Heights, 80 ft north from Butternut Road, 500 ft upstream from confluence with Wreck Pond Brook, and 0.7 mi southwest from Spring Lake Heights.

DRAINAGE AREA.--3.13 mi^2.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2001-02, 2007-08.

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 2007 TO SEPTEMBER 2008

Part 1 of 5

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

Date	Time	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	UV absorb-ance, 254 nm, wat flt units /cm (50624)	UV absorb-ance, 280 nm, wat flt units /cm (61726)	Baro-metric pres-sure, mm Hg (00025)	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, air, deg C (00020)	Temper-ature, water, deg C (00010)	Hard-ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)
Nov													
07...	1000	1.2	.101	.080	765	8.7	78	6.5	191	8.5	10.1	35	7.99
Mar													
04...	0830	1.5	.077	.061	763	10.1	88	6.5	218	12.5	8.9	38	9.10
Jun													
11...	0800	3.0	.143	.114	764	7.1	77	6.7	190	25.0	19.4	34	7.93
Aug													
18...	0800	2.2	.093	.073	762	7.1	78	6.6	176	23.0	18.6	31	7.16

01407806 HANNABRAND BROOK AT OLD MILL ROAD, NEAR SPRING LAKE HEIGHTS, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 2 of 5
[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	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)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L as SiO2 (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total non-filterable, mg/L (00530)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia water, fltrd, mg/L as N (00608)
Nov													
07...	3.58	2.59	16.8	14	29.3	<.12	7.6	17.6	99	111	3	4.3	.079
Mar													
04...	3.75	2.56	21.2	13	36.3	<.12	6.5	19.4	114	108	4	.25	.067
Jun													
11...	3.43	2.74	17.7	15	29.6	<.12	7.0	17.2	E100	112	2	.30	.083
Aug													
18...	3.17	2.57	15.8	14	27.4	<.12	7.1	17.0	E93	95	6	.26	.068

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 3 of 5
[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Nitrate + nitrite water fltrd, mg/L as N (00631)	Particulate nitrogen, susp, water, mg/L (49570)	Total nitrogen, water, fltrd, mg/L (00602)	Total nitrogen, water, unfltrd mg/L (00600)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L as P (00666)	Phosphorus, water, unfltrd mg/L as P (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Arsenic water, fltrd, µg/L (01000)	Arsenic water, unfltrd µg/L (01002)
Nov													
07...	1.17	E.03	5.4	E5.5	<.010	.010	.017	.4	<.04	.4	2.4	--	--
Mar													
04...	1.68	.06	1.9	2.0	<.010	.008	.013	.8	<.04	.8	2.0	.15	<.60
Jun													
11...	1.17	.08	1.5	1.6	E.004	.013	.033	.9	M	.9	3.1	--	--
Aug													
18...	1.08	.09	1.3	1.4	E.004	.013	.024	.9	<.04	.9	2.4	.23	E.32

01407806 HANNABRAND BROOK AT OLD MILL ROAD, NEAR SPRING LAKE HEIGHTS, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
Part 4 of 5
[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Barium, water, unfltrd recover-able, µg/L (01007)	Beryll-ium, water, unfltrd recover-able, µg/L (01012)	Boron, water, fltrd, µg/L (01020)	Boron, water, unfltrd recover-able, µg/L (01022)	Cadmium water, unfltrd µg/L (01027)	Chrom-ium, water, unfltrd recover-able, µg/L (01034)	Copper, water, unfltrd recover-able, µg/L (01042)	Iron, water, unfltrd recover-able, µg/L (01045)	Lead, water, unfltrd recover-able, µg/L (01051)	Mangan-ese, water, unfltrd recover-able, µg/L (01055)	Mercury water, unfltrd recover-able, µg/L (71900)	Nickel, water, unfltrd recover-able, µg/L (01067)	Selen-ium, water, unfltrd µg/L (01147)
Nov													
07...	--	--	21	--	--	--	--	--	--	--	--	--	--
Mar													
04...	47.2	.07	19	18	.19	E.28	<1.2	386	.43	43.1	.032	1.3	.11
Jun													
11...	--	--	21	--	--	--	--	--	--	--	--	--	--
Aug													
18...	46.3	.08	21	18	.13	<.40	2.3	652	.73	36.8	.039	1.3	.10

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007
TO SEPTEMBER 2008
Part 5 of 5
[Remark codes: <, less than;
E, estimated;
M, presence verified but not
quantified.]

Date	Silver, water, unfltrd recover-able, µg/L (01077)	Zinc, water, unfltrd recover-able, µg/L (01092)
Nov		
07...	--	--
Mar		
04...	<.02	13.0
Jun		
11...	--	--
Aug		
18...	.02	11.8