

## Water-Data Report 2010

**01445519 MOUNTAIN LAKE NEAR PEQUEST, NJ**

DELAWARE RIVER BASIN

LOCATION.--Lat 40°51'12", long 74°59'08" referenced to North American Datum of 1983, Liberty Township, Warren County, NJ, Hydrologic Unit 02040105, 150 feet upstream from outlet on Mountain Lake Brook, 1.5 mi north of Pequest, and 2.4 mi northeast of Bridgeville.

DRAINAGE AREA.--4.35 mi<sup>2</sup>.

**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--April to August 2010.

REMARKS.--Cooperative Network Site Descriptor: Development of Mercury-Bioaccumulation Factors special study site.

COOPERATION.--Physical measurements and samples for laboratory analyses were provided by personnel of the NJ Department of Environmental Protection.

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

Part 1 of 3

[%, percent; NTRU, nephelometric turbidity ratio unit; cm, centimeter; ft, feet; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; <, less than]

Date	Sample start time	Medium name	Sample type	Barometric pressure, mm Hg (00025)	Tempera-ture, air, °C (00020)	Absorbance, UV, 254 nm, 1 cm path length, water, filtered, units per centimeter (50624)	Absorbance, UV, organic constituents, 280 nm, 1 cm path length, water, filtered, units per centimeter (61726)	Absorbance, UV, organic constituents, 280 nm, 1 cm path length, water, unfiltered, units per centimeter (61726)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)
04-30-2010	0815	QC sample - Artificial	Field Blank	--	--	.003	.002	--	--	--
04-30-2010	0840	QC sample - Artificial	Field Blank	--	--	--	--	--	--	--
04-30-2010	1000	Surface water	Regular	751	23.0	.067	.049	--	--	--
04-30-2010	1001	Surface water	Regular	751	--	--	--	--	3.6	31
04-30-2010	1002	Surface water	Regular	751	--	--	--	--	9.0	88
04-30-2010	1003	Surface water	Regular	751	--	--	--	--	9.3	98
06-25-2010	0745	QC sample - Artificial	Field Blank	--	--	.002	.002	--	--	--
06-25-2010	0830	QC sample - Artificial	Field Blank	--	--	--	--	--	--	--
06-25-2010	0900	Surface water	Regular	754	28.0	.062	.044	--	--	--
06-25-2010	0901	Surface water	Regular	754	--	--	--	--	2.7	22
06-25-2010	0902	Surface water	Regular	754	--	--	--	--	8.4	93
06-25-2010	0903	Surface water	Regular	754	--	--	--	--	8.9	99
08-19-2010	0930	QC sample - Artificial	Field Blank	--	--	< .001	< .001	--	--	--
08-19-2010	0945	QC sample - Artificial	Field Blank	--	--	--	--	--	--	--
08-19-2010	1015	Surface water	Regular	751	28.0	.060	.041	--	--	--
08-19-2010	1016	Surface water	Regular	751	--	--	--	--	.1	1.0
08-19-2010	1017	Surface water	Regular	751	--	--	--	--	7.3	84.8
08-19-2010	1018	Surface water	Regular	751	--	--	--	--	7.0	85.8

**01445519 MOUNTAIN LAKE NEAR PEQUEST, NJ—Continued**
**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

Part 2 of 3

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Date	Turbidity, water, unfiltered, broad band light source						Depth of sensor below water surface, feet	Mercury, water, unfiltered, nanograms per liter	Methyl- mercury, water, filtered, recoverable, nanograms per liter
	pH, water, unfiltered, field, standard units (00400)	Specific conduc- tance, water, unfiltered, µS/cm at 25 °C (00095)	Tempera- ture, water, °C (00010)	degrees, ratiometric correction, NTRU (63676)	Sampling depth, ft (00003)	Sulfate, water, filtered, mg/L (00945)			
<b>04-30-2010</b>	--	--	--	--	--	--	< .18	--	--
<b>04-30-2010</b>	--	--	--	--	--	--	--	< .04	.14
<b>04-30-2010</b>	8.8	359	--	3.0	1.00	--	11.9	.69	--
<b>04-30-2010</b>	--	--	7.6	--	--	36.00	--	--	--
<b>04-30-2010</b>	--	--	13.7	--	--	13.00	--	--	--
<b>04-30-2010</b>	--	--	14.1	--	--	1.00	--	--	--
<b>06-25-2010</b>	--	--	--	--	--	--	< .18	--	--
<b>06-25-2010</b>	--	--	--	--	--	--	--	.08	< .04
<b>06-25-2010</b>	8.6	376	--	1.4	1.00	--	11.7	.45	< .04
<b>06-25-2010</b>	--	--	11.5	--	--	35.00	--	--	--
<b>06-25-2010</b>	--	--	19.5	--	--	18.00	--	--	--
<b>06-25-2010</b>	--	--	26.9	--	--	1.00	--	--	--
<b>08-19-2010</b>	--	--	--	--	--	--	< .18	--	--
<b>08-19-2010</b>	--	--	--	--	--	--	--	< .04	< .04
<b>08-19-2010</b>	8.4	380	--	1.1	1.00	--	12.5	.34	.05
<b>08-19-2010</b>	--	--	12.9	--	--	33.50	--	--	--
<b>08-19-2010</b>	--	--	23.2	--	--	17.00	--	--	--
<b>08-19-2010</b>	--	--	26.3	--	--	1.00	--	--	--

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Part 3 of 3

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Date	Organic carbon, water, filtered, mg/L (00681)
<b>04-30-2010</b>	.4
<b>04-30-2010</b>	--
<b>04-30-2010</b>	3.0
<b>04-30-2010</b>	--
<b>04-30-2010</b>	--
<b>04-30-2010</b>	--
<b>06-25-2010</b>	.4
<b>06-25-2010</b>	--
<b>06-25-2010</b>	3.7
<b>06-25-2010</b>	--
<b>06-25-2010</b>	--
<b>08-19-2010</b>	.5
<b>08-19-2010</b>	--
<b>08-19-2010</b>	4.0
<b>08-19-2010</b>	--
<b>08-19-2010</b>	--
<b>08-19-2010</b>	--