

Water-Data Report 2010

01409386 ATSION LAKE AT ATSION, NJ

MULLICA RIVER BASIN

LOCATION.--Lat 39°44'26", long 74°43'37" referenced to North American Datum of 1983, Shamong Township, Burlington County, NJ, Hydrologic Unit 02040301, 150 ft upstream from dam on Mullica River, at Atsion, 180 ft upstream of bridge on U.S. Route 206, 0.2 mi upstream from Wesickaman Creek, 8.4 mi northeast of Hammonton, and 9.0 mi south of Tabernacle.

DRAINAGE AREA.--26.7 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2009-10.

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, organic constituents, cm path length, water, filtered, units per centimeter (50624)		Absorbance, UV, 254 nm, 1 cm path length, water, filtered, units per centimeter (61726)		Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)
10-14-2009	0930	QC sample - Artificial	Field Blank	--	--	.001	.001	--	--		
10-14-2009	1000	Surface water	Regular	769	13.5	.375	.286	--	--		
10-14-2009	1001	Surface water	Regular	769	--	--	--	7.0	70		
10-14-2009	1002	Surface water	Regular	769	--	--	--	7.2	71		
10-14-2009	1003	Surface water	Regular	769	--	--	--	7.4	73		
04-06-2010	0910	QC sample - Artificial	Field Blank	--	--	<.001	<.001	--	--		
04-06-2010	0930	Surface water	Regular	758	18.0	.698	.531	--	--		
04-06-2010	0931	Surface water	Regular	758	--	--	--	5.9	56		
04-06-2010	0932	Surface water	Regular	758	--	--	--	7.2	75		
04-06-2010	0933	Surface water	Regular	758	--	--	--	7.2	75		

01409386 ATSION LAKE AT ATSION, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 2 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	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 (00400)	Specific conduc- tance, water, unfiltered, µS/cm at 25 °C (00095)	Tempera- ture, water, °C (00010)	including 90 +/- 30 degrees, ratiometric correction, NTRU (63676)	Sampling depth, ft (00003)	(72147)			
10-14-2009	--	--	--	--	--	--	<.18	.06	<.04
10-14-2009	4.8	47	--	3.2	1.00	--	3.57	4.20	.32
10-14-2009	--	--	14.6	--	--	6.00	--	--	--
10-14-2009	--	--	14.6	--	--	3.20	--	--	--
10-14-2009	--	--	14.7	--	--	1.00	--	--	--
04-06-2010	--	--	--	--	--	--	<.18	<.04	<.04
04-06-2010	4.3	62	--	1.6	1.00	--	5.31	5.55	.15
04-06-2010	--	--	13.0	--	--	7.00	--	--	--
04-06-2010	--	--	16.9	--	--	3.50	--	--	--
04-06-2010	--	--	17.5	--	--	1.00	--	--	--

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

Part 3 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	Organic carbon, water, filtered, mg/L (00681)
10-14-2009	.3
10-14-2009	8.1
10-14-2009	--
10-14-2009	--
10-14-2009	--
04-06-2010	.4
04-06-2010	13.6
04-06-2010	--
04-06-2010	--
04-06-2010	--