

Water-Data Report 2010

01443469 SWARTSWOOD LAKE AT SWARTSWOOD STATE PARK, NJ

DELAWARE RIVER BASIN

LOCATION.--Lat 41°03'35", long 74°51'11" referenced to North American Datum of 1983, Stillwater Township, Sussex County, NJ, Hydrologic Unit 02040105, 150 ft upstream from outlet on Neldons Brook in Swartswood State Park, 0.7 mi northeast of Middleville, and 1.3 mi west of Paulins Kill.

DRAINAGE AREA.--17.1 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 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 2

[%, 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	Barometric pressure, mm Hg (00025)	Temperature, air, °C (00020)	Tempera-ture, water, °C (00020)	filtered, units per centimeter (50624)	Absorbance, UV, 254 nm, 1 cm path length, water, filtered, units per centimeter (61726)	Absorbance, constituents, 280 nm, 1 cm path length, water, filtered, units per centimeter (61726)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	pH, water, field, standard units (00400)	Specific conductance, water, unfiltered, µS/cm at 25 °C (00095)
05-06-2010	1230	744	25.0	.086	.062	--	--	8.1	230		
05-06-2010	1231	744	--	--	--	2.4	23	--	--		
05-06-2010	1232	744	--	--	--	8.5	88	--	--		
05-06-2010	1233	744	--	--	--	9.1	95	--	--		
06-09-2010	1130	754	16.0	.089	.066	--	--	8.5	243		
06-09-2010	1131	754	--	--	--	.5	5	--	--		
06-09-2010	1132	754	--	--	--	7.0	72	--	--		
06-09-2010	1133	754	--	--	--	9.4	103	--	--		
08-31-2010	1115	755	31.0	.073	.052	--	--	8.3	245		
08-31-2010	1116	755	--	--	--	3.8	--	--	--		
08-31-2010	1117	755	--	--	--	5.9	--	--	--		
08-31-2010	1118	755	--	--	--	7.7	--	--	--		

01443469 SWARTSWOOD LAKE AT SWARTSWOOD STATE PARK, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 2 of 2

[%, 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 (400-680 nm), detectors at multiple angles			Sampling depth, ft (00003)	Depth of sensor below water surface, feet (72147)	Sulfate, water, filtered, mg/L (00945)	Mercury, water, unfiltered, nanograms per liter (50286)	Methyl- mercury, water, filtered, recoverable, nanograms per liter (50285)	Organic carbon, water, filtered, mg/L (00681)
	Temper- ature, water, °C (00010)	degrees, ratiometric correction, NTRU (63676)	including 90 +/- 30						
05-06-2010	--	1.7	1.00	--	8.78	.69	.60	.60	3.8
05-06-2010	12.8	--	--	40.00	--	--	--	--	--
05-06-2010	17.2	--	--	20.00	--	--	--	--	--
05-06-2010	18.5	--	--	1.00	--	--	--	--	--
06-09-2010	--	1.5	1.00	--	8.84	.41	< .04	.41	3.9
06-09-2010	13.3	--	--	38.00	--	--	--	--	--
06-09-2010	16.9	--	--	20.00	--	--	--	--	--
06-09-2010	20.0	--	--	1.00	--	--	--	--	--
08-31-2010	--	3.8	1.00	--	8.29	.28	< .04	.28	4.6
08-31-2010	23.2	--	--	40.00	--	--	--	--	--
08-31-2010	24.3	--	--	20.00	--	--	--	--	--
08-31-2010	25.9	--	--	1.00	--	--	--	--	--