



Water-Data Report 2010

0141144190 EAST CREEK POND NEAR ELDORA, NJ

EAST CREEK BASIN

LOCATION.--Lat 39°13'21", long 74°53'09" referenced to North American Datum of 1983, Dennis Township, Cape May County, NJ, Hydrologic Unit 02040206, 60 ft upstream of dam on East Creek, 1.2 mi northeast of Eldora, 2.3 mi northwest of North Dennis, and 2.9 mi upstream from confluence with Willis Run.

DRAINAGE AREA.--8.10 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)	Temperature, 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)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)
10-20-2009	1000	QC sample - Artificial	Field Blank	--	--	< .001	< .001	--	--
10-20-2009	1030	Surface water	Regular	768	12.5	.273	.201	--	--
10-20-2009	1031	Surface water	Regular	768	--	--	--	8.2	77
10-20-2009	1032	Surface water	Regular	768	--	--	--	8.8	78
10-20-2009	1033	Surface water	Regular	768	--	--	--	9.4	85
04-07-2010	0930	QC sample - Artificial	Field Blank	--	--	< .001	< .001	--	--
04-07-2010	1000	Surface water	Regular	758	30.0	.607	.462	--	--
04-07-2010	1001	Surface water	Regular	758	--	--	--	4.5	44
04-07-2010	1002	Surface water	Regular	758	--	--	--	7.5	80
04-07-2010	1003	Surface water	Regular	758	--	--	--	9.5	105

0141144190 EAST CREEK POND NEAR ELDORA, 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	pH, water, unfiltered, field, standard units (00400)	Specific conduc- tance, water, unfiltered, μS/cm at 25 °C (00095)	Tempera- ture, water, °C (00010)	Turbidity, water, unfiltered, broad band light source (400-680 nm), detectors at multiple angles including 90 +/- 30 degrees, ratiometric correction, NTRU (63676)	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)
10-20-2009	--	--	--	--	--	--	< .18	< .04	< .04
10-20-2009	4.8	55	--	.9	1.00	--	4.56	2.61	.12
10-20-2009	--	--	10.4	--	--	6.30	--	--	--
10-20-2009	--	--	10.7	--	--	3.30	--	--	--
10-20-2009	--	--	10.8	--	--	1.00	--	--	--
04-07-2010	--	--	--	--	--	--	< .18	--	< .04
04-07-2010	4.3	55	--	.9	1.00	--	6.00	5.98	.31
04-07-2010	--	--	14.0	--	--	7.00	--	--	--
04-07-2010	--	--	17.6	--	--	3.50	--	--	--
04-07-2010	--	--	20.0	--	--	.50	--	--	--

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)
10-20-2009	.3
10-20-2009	7.5
10-20-2009	--
10-20-2009	--
10-20-2009	--
04-07-2010	.3
04-07-2010	12.4
04-07-2010	--
04-07-2010	--
04-07-2010	--