



Water-Data Report 2010

01411444 WEST CREEK NEAR LEESBURG, NJ

WEST CREEK BASIN

LOCATION.--Lat 39°15'36", long 74°54'41" referenced to North American Datum of 1983, Maurice River Township, Cumberland County, NJ, Hydrologic Unit 02040206, at bridge on County Route 550 (Leesburg Belleplain Road) at Hoffmans Mill, 1.5 mi upstream from Hands Millpond, 2.4 mi south of Halberton, and 4.0 mi east of Leesburg.

DRAINAGE AREA.--6.64 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Miscellaneous measurements, water years 1999 to current year.

GAGE.--Staff gage.

**DISCHARGE MEASUREMENTS
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

Date	Discharge, in ft ³ /s
Nov 24, 2009	6.91
Feb 17, 2010	10.2
Jun 22, 2010	2.01
Aug 26, 2010	0.71

01411444 WEST CREEK NEAR LEESBURG, NJ—Continued**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 1999 to current year.

REMARKS.--Cooperative Network Site Descriptor: Undeveloped Land Use Indicator, NJ Department of Environmental Protection Watershed Management Area 16.

COOPERATION.--Physical measurements and samples for laboratory analysis were collected in cooperation with 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 2009 TO SEPTEMBER 2010**

Part 1 of 5

[%; percent; ANC, acid neutralizing capacity; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO₂, silicon dioxide; cm, centimeter; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; E, estimated]

Date	Sample start time	Barometric pressure, mm Hg (00025)	Tempera-ture, air, °C (00020)	Absorbance, UV, 254 nm, 1 cm path length, water, filtered, units	Absorbance, UV, organic constituents, 280 nm, 1 cm path length, water, filtered, units	Discharge, instantane-ous, ft ³ /s (00061)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	pH, water, unfiltered, field, standard units (00400)
				per centimeter (50624)	per centimeter (61726)		(00061)	(00300)	(00301)
11-24-2009	0930	763	12.0	.531	.409	6.9	8.9	80	3.8
02-17-2010	1020	751	2.0	.374	.286	10	11.6	80	3.9
06-22-2010	0920	763	27.0	.671	.535	2.0	3.2	37	4.4
08-26-2010	1130	757	23.0	.358	.279	.71	8.5	107	4.4

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

Part 2 of 5

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Date	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)	Dissolved solids, dried at 180 °C, water, filtered, milligrams mg/L (70300)	Dissolved solids, sum of constituents, milligrams mg/L per liter (70301)	Hardness, water, mg/L as CaCO ₃ (00900)	Suspended solids, water, unfiltered, mg/L (00530)	Calcium, water, filtered, mg/L (00915)	Magne-sium, water, filtered, mg/L (00925)
11-24-2009	57	10.2	.9	41	< 24	3.21	1	.44	.511
02-17-2010	56	.4	.7	39	< 19	2.41	1	.32	.392
06-22-2010	43	22.5	1.4	45	< 22	2.45	6	.35	.386
08-26-2010	48	27.7	1.3	35	< 27	2.42	2	.29	.414

01411444 WEST CREEK NEAR LEESBURG, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 3 of 5

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Date	Potassium, water, filtered, mg/L (00935)	Sodium, water, filtered, mg/L (00930)	ANC, water, unfiltered, fixed endpoint (pH 4.5) titration, laboratory, mg/L as CaCO ₃	Carbon (inorganic plus organic), suspended sediment, total, mg/L (00694)	Chloride, water, filtered, mg/L (00940)	Fluoride, water, filtered, mg/L (00950)	Inorganic carbon, suspended sediment, total, mg/L (00688)	Silica, water, filtered, mg/L as SiO ₂ (00955)	Ammonia plus organic nitrogen, water, filtered, mg/L as N (00623)	
11-24-2009	.61	2.75	< 1.7	.23	5.85	< .08	< .06	8.5	3.99	.28
02-17-2010	.42	2.12	< 1.7	.19	4.12	< .08	< .06	6.1	4.83	.17
06-22-2010	.67	2.46	< 1.7	.97	5.19	< .08	< .06	8.5	2.80	.40
08-26-2010	.71	2.80	< 1.7	.51	5.55	< .08	< .06	11.2	4.82	.23

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 4 of 5

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Date	Nitrate plus Ammonia, water, filtered, mg/L as N (00608)	Orthophos- phate, water, filtered, mg/L as N (00631)	Particulate nitrogen, water, filtered, mg/L as P (00671)	Total Phosphorus, in water, mg/L (49570)	Total Phosphorus, water, filtered, mg/L as P (00666)	Total Phosphorus, water, unfiltered, mg/L as P (00665)	Total nitrogen, water, filtered, mg/L (00602)	Total nitrogen, water, unfiltered, mg/L (00600)	Total Aluminum, water, filtered, µg/L (01106)
11-24-2009	.019	.06	E .006	< .03	< .008	< .008	.34	< .38	--
02-17-2010	.026	< .04	E .005	< .03	< .008	< .008	< .21	< .25	--
06-22-2010	.108	< .04	--	.06	E .007	.010	< .44	< .50	--
08-26-2010	.014	< .04	--	.05	E .004	E .006	< .27	< .32	148

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

Part 5 of 5

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Date	Iron, water, filtered, µg/L (01046)	Organic carbon, suspended sediment, total, mg/L (00689)	Organic carbon, water, filtered, mg/L (00681)
11-24-2009	--	.23	10.8
02-17-2010	--	.19	7.7
06-22-2010	--	.97	10.8
08-26-2010	297	.50	6.6