



Water-Data Report 2010

## 01399570 ROCKAWAY CREEK AT MCCREA MILLS, NJ

RARITAN RIVER BASIN

LOCATION.--Lat 40°39'42", long 74°45'57" referenced to North American Datum of 1983, Readington Township, Hunterdon County, NJ, Hydrologic Unit 02030105, at bridge on Rockaway Road in McCrea Mills, 1.1 mi southwest of Oldwick, 3.1 mi upstream of South Branch Rockaway Creek, and 4.0 mi northeast of Lebanon.

DRAINAGE AREA.--17.0 mi<sup>2</sup>.

### SURFACE-WATER RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1961-65, 2002 to current year. Miscellaneous measurements, water years 2005-10.

GAGE.--Reference point only.

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

Date	Discharge, in ft <sup>3</sup> /s
Nov 10, 2009	16.2
Mar 11, 2010	58.6
Jun 8, 2010	13.5
Jul 6, 2010	6.84
Aug 30, 2010 at 1045 hrs	5.47
Aug 30, 2010 at 1430 hrs	4.95

## 01399570 ROCKAWAY CREEK AT MCCREA MILLS, NJ—Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1961-1962, 1964, 2006, 2009-10.

REMARKS.--Cooperative Network Site Descriptor: Statewide Status, NJ Department of Environmental Protection Watershed Management Area 8.

COOPERATION.--Physical measurements and samples for laboratory analyses were provided by personnel of 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 6

[%, percent; ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO<sub>2</sub>, silicon dioxide; cm, centimeter; ft<sup>3</sup>/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)	Temperature, air, °C (00020)	Absorbance, UV, 254 nm, 1 cm path length, water, filtered, per centimeter (50624)	Absorbance, UV, organic constituents, 280 nm, 1 cm path length, water, filtered, per centimeter (61726)	Discharge, instantaneous, ft <sup>3</sup> /s (00061)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	pH, water, unfiltered, field, standard units (00400)
11-10-2009	1120	774	15.2	.046	.036	16	11.5	101	7.8
03-11-2010	0930	758	9.5	.070	.054	59	12.8	104	7.7
06-08-2010	0830	759	16.5	.044	.036	14	9.3	93	7.8
08-30-2010	1000	762	28.0	.036	.028	5.5	8.7	94	7.9

## WATER-QUALITY DATA

## WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 2 of 6

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Date	Specific conductance, water, unfiltered, μS/cm at 25 °C (00095)	Temperature, 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, water, filtered, sum of constituents, milligrams per liter (70300)	Dissolved solids, water, filtered, sum of constituents, milligrams per liter (70301)	Hardness, water, mg/L as CaCO <sub>3</sub> (00900)	Suspended solids, water, unfiltered, mg/L (00530)	Calcium, water, filtered, mg/L (00915)	Magnesium, water, filtered, mg/L (00925)
11-10-2009	191	9.4	.7	128	E 117	68.8	1	16.9	6.47
03-11-2010	154	6.3	1.8	119	E 92	47.2	3	11.8	4.28
06-08-2010	205	14.9	.4	125	E 119	72.2	1	17.5	6.91
08-30-2010	214	18.9	.9	137	125	76.6	1	18.4	7.42

## 01399570 ROCKAWAY CREEK AT MCCREA MILLS, NJ—Continued

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

Part 3 of 6

[%, percent; ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO<sub>2</sub>, silicon dioxide; cm, centimeter; ft<sup>3</sup>/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	Potassium, water, filtered, mg/L (00935)	Sodium, water, filtered, mg/L (00930)	ANC, water, unfiltered, fixed endpoint (pH 4.5)	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 <sub>2</sub> (00955)	Sulfate, water, filtered, mg/L (00945)	Ammonia plus organic nitrogen, water, filtered, mg/L as N (00623)
			titration, laboratory, mg/L as CaCO <sub>3</sub> (90410)							
11-10-2009	1.67	9.34	50	< .10	17.4	E .04	< .06	17.9	13.3	.14
03-11-2010	1.27	8.99	32	< .10	19.0	< .08	< .06	12.7	11.1	.27
06-08-2010	1.38	8.83	50	E .09	17.7	E .06	< .06	17.4	13.6	.16
08-30-2010	1.54	8.85	59	E .10	17.6	.10	< .06	16.6	14.5	.16

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

Part 4 of 6

[%, percent; ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO<sub>2</sub>, silicon dioxide; cm, centimeter; ft<sup>3</sup>/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	Ammonia, water, filtered, mg/L as N (00608)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Orthophos- phate, water, filtered, mg/L as P (00671)	Particulate nitrogen, suspended in water, mg/L (49570)	Phosphorus, water, filtered, mg/L as P (00666)	Phosphorus, water, unfiltered, mg/L as P (00665)	Total nitrogen, water, filtered, mg/L (00602)	Total nitrogen, water, unfiltered, mg/L (00600)	Barium, water, unfiltered, recover- able, μg/L (01007)
11-10-2009	.015	1.04	.012	< .03	E .006	.010	1.2	< 1.2	--
03-11-2010	< .010	.79	E .006	E .03	E .006	.011	1.1	E 1.1	15.9
06-08-2010	< .010	1.25	--	< .03	.016	.017	1.4	< 1.4	--
08-30-2010	.015	1.16	--	E .02	.018	.018	1.3	E 1.3	20.3

## 01399570 ROCKAWAY CREEK AT MCCREA MILLS, NJ—Continued

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

Part 5 of 6

[%, percent; ANC, acid neutralizing capacity; CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO<sub>2</sub>, silicon dioxide; cm, centimeter; ft<sup>3</sup>/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	Beryllium, water, unfiltered, recover- able, μg/L (01012)	Cadmium, water, unfiltered, μg/L (01027)	Chromium, water, unfiltered, recover- able, μg/L (01034)	Copper, water, unfiltered, recover- able, μg/L (01042)	Iron, water, unfiltered, recover- able, μg/L (01045)	Lead, water, unfiltered, recover- able, μg/L (01051)	Manga- nese, water, unfiltered, recover- able, μg/L (01055)	Mercury, water, unfiltered, recover- able, μg/L (71900)	Nickel, water, unfiltered, recover- able, μg/L (01067)	Silver, water, unfiltered, recover- able, μg/L (01077)
	11-10-2009	--	--	--	--	--	--	--	--	--
03-11-2010	< .04	< .04	E .27	E .81	92	.10	5.9	< .010	E .30	< .02
06-08-2010	--	--	--	--	--	--	--	--	--	--
08-30-2010	< .04	< .04	< .42	< 1.4	43	E .04	8.1	< .010	E .19	< .02

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

Part 6 of 6

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Date	Zinc, water, unfiltered, recoverable, μg/L (01092)	Arsenic, water, filtered, μg/L (01000)	Arsenic, water, unfiltered, μg/L (01002)	Boron, water, unfiltered, recoverable, micrograms per liter (01022)	Selenium, water, unfiltered, μg/L (01147)	Organic carbon, suspended sediment, total, mg/L (00689)	Organic carbon, water, filtered, mg/L (00681)
	11-10-2009	--	--	--	--	--	< .12
03-11-2010	E 1.1	.15	.24	< 14	.20	< .12	1.9
06-08-2010	--	--	--	--	--	< .12	1.2
08-30-2010	< 2.0	.20	.32	16	.14	< .12	1.1