



Water-Data Report 2010

01411400 FISHING CREEK AT RIO GRANDE, NJ

FISHING CREEK BASIN

LOCATION.--Lat 39°01'39", long 74°53'47" referenced to North American Datum of 1983, Middle Township, Cape May County, NJ, Hydrologic Unit 02040206, at bridge on State Route 47 at Wildwood Pumping Station, 1.4 mi northwest of Rio Grande, and 2.7 mi upstream from mouth.

DRAINAGE AREA.--2.29 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1965-72, 1990-92. Miscellaneous measurements, water years 1998 to current year.

GAGE.--Staff gage.

DISCHARGE MEASUREMENTS WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Date	Discharge, in ft ³ /s
Nov 16, 2009	7.22
Feb 22, 2010	9.82
May 20, 2010	7.99
Aug 4, 2010	0.13

01411400 FISHING CREEK AT RIO GRANDE, NJ—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1965, 1998 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; <, 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, units per centimeter (50624)	Absorbance, UV, organic constituents, 280 nm, 1 cm path length, water, filtered, units per centimeter (61726)	Discharge, instantaneous, ft ³ /s (00061)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	pH, water, unfiltered, field, standard units (00400)
11-16-2009	1130	761	15.0	1.62	1.28	7.2	5.4	52	5.4
02-22-2010	1200	759	8.0	.636	.499	9.8	9.5	69	6.0
05-20-2010	1200	761	19.0	.570	.450	8.0	4.7	49	6.3
08-04-2010	1130	760	29.0	.411	.302	.13	4.6	59	7.4

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

Part 2 of 5

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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 dried at 180 °C, water, filtered, mg/L (70300)	Dissolved solids, water, filtered, sum of constituents, milligrams per liter (70301)	Hardness, water, mg/L as CaCO ₃ (00900)	Suspended solids, water, unfiltered, mg/L (00530)	Calcium, water, filtered, mg/L (00915)	Magnesium, water, filtered, mg/L (00925)
11-16-2009	106	14.1	2.3	127	60	26.7	1	7.01	2.25
02-22-2010	119	2.5	1.4	91	E 64	24.5	2	6.37	2.10
05-20-2010	110	17.0	2.3	96	59	26.0	1	6.91	2.12
08-04-2010	231	28.2	11	137	E 113	61.4	16	16.4	4.98

01411400 FISHING CREEK AT RIO GRANDE, 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)	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)	Sulfate, water, filtered, mg/L (00945)	Ammonia plus organic nitrogen, water, filtered, mg/L as N (00623)
			titration, laboratory, mg/L as CaCO ₃ (90410)	titration, laboratory, mg/L as CaCO ₃ (90410)						
11-16-2009	1.52	9.86	10	.50	18.1	< .08	< .06	8.8	5.33	.83
02-22-2010	1.26	11.6	11	.26	20.0	< .08	< .06	6.1	9.46	.36
05-20-2010	1.48	9.90	15	.71	17.0	< .08	< .06	5.6	6.91	.70
08-04-2010	2.66	18.0	46	3.40	30.2	E .07	E .03	.2	12.7	.59

WATER-QUALITY DATA
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Part 4 of 5

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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)	Organic carbon, suspended sediment, total, mg/L (00689)
		mg/L as N (00631)	mg/L as P (00671)	mg/L (49570)	mg/L (00666)	mg/L as P (00665)	mg/L (00602)	mg/L (00600)	mg/L (00689)
11-16-2009	.065	.10	< .010	.05	.015	.021	.93	.98	.48
02-22-2010	.023	.23	E .004	< .03	E .007	.009	.59	< .62	.25
05-20-2010	.049	.12	--	.08	.014	.025	.82	.90	.70
08-04-2010	< .010	< .04	--	.46	.011	.070	< .64	< 1.1	3.37

01411400 FISHING CREEK AT RIO GRANDE, NJ—Continued

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

Part 5 of 5

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Date	Organic carbon, water, filtered, mg/L (00681)
11-16-2009	29.1
02-22-2010	12.0
05-20-2010	20.0
08-04-2010	10.5