

Water-Data Report 2007

**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 mi<sup>2</sup>.

**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 2006 TO SEPTEMBER 2007**

<b>Date</b>	<b>Discharge, in ft<sup>3</sup>/s</b>
Nov 13, 2006	12.1
Feb 20, 2007	2.49
May 3, 2007	0.87
Aug 21, 2007	0.04

## 01411400 FISHING CREEK AT RIO GRANDE, NJ—Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1965, 1998 to current year.

REMARKS.--Total nitrogen (00600) equals the sum of filtered ammonia-plus-organic nitrogen (00623), filtered nitrite-plus-nitrate nitrogen (00631), and total particulate nitrogen (49570). Cooperative Network Site Descriptor: Undeveloped Land Use Indicator and Statewide Status, 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 2006 TO SEPTEMBER 2007**

Part 1 of 5

[Remark codes: <, less than; E, estimated.]

Date	Time	Sample type	Instantaneous discharge, cfs (00061)	Turbidity white light, det ang 90+/-30 corrctd NTRU (63676)	UV absorbance, 254 nm, wat flt units /cm (50624)	UV absorbance, 280 nm, wat flt units /cm (61726)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf 25 degC µS/cm (00095)	Temperature, air, deg C (00020)
<b>Nov</b>												
13...	1140	Environmental	12	5.5	.724	.565	757	7.4	75	6.3	125	17.5
<b>Feb</b>												
20...	1122	Field Blank	--	--	--	--	--	--	--	--	--	--
20...	1150	Environmental	2.5	1.3	.568	.441	760	12.6	94	6.2	163	8.0
<b>May</b>												
03...	1050	Environmental	.87	2.3	.925	.725	766	8.1	86	6.6	132	18.0
<b>Aug</b>												
21...	1130	Field Blank	--	--	--	--	--	--	--	--	--	--
21...	1200	Environmental	.04	2.5	.351	.261	765	5.3	61	6.6	182	20.5

## 01411400 FISHING CREEK AT RIO GRANDE, NJ—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 2 of 5

[Remark codes: &lt;, less than; E, estimated.]

Date	Temperature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes- ium, water, fltrd, mg/L (00925)	Potas- sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed end pt, lab, mg/L as CaCO3 (90410)	Chlor- ide, water, fltrd, mg/L (00940)	Fluor- ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of consti- tuents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)
Nov 13...	15.4	32	8.64	2.62	1.64	9.74	17	17.4	<.10	8.0	9.78	68	111
Feb 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	3.1	33	8.43	2.88	1.34	11.7	16	20.2	<.10	7.4	14.3	77	103
May 03...	18.5	31	8.09	2.69	1.48	10.7	18	18.7	<.10	1.1	9.53	63	105
Aug 21...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	22.3	45	11.1	4.14	1.94	14.3	28	25.9	<.10	1.5	14.5	90	115

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 3 of 5

[Remark codes: &lt;, less than; E, estimated.]

Date	Residue total non- filter- able, mg/L (00530)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water fltrd, mg/L as N (00631)	Partic- ulate nitro- gen, susp, water, mg/L (49570)	Total nitro- gen, water, fltrd, mg/L (00602)	Total nitro- gen, water, unfltrd mg/L (00600)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L (00666)	Phos- phorus, water, unfltrd mg/L (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inor- ganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)
Nov 13...	6	.50	.025	E.04	.07	--	--	.018	.026	.060	.7	<.1	.7
Feb 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
20...	1	.54	.022	.28	.06	.82	.88	<.010	E.008	.014	.5	<.1	.5
May 03...	4	.63	.025	E.05	.11	--	--	E.003	.010	.025	1.0	<.1	1.0
Aug 21...	--	--	--	--	--	--	--	--	--	--	--	--	--
21...	6	.52	.036	<.06	.40	--	--	<.010	.009	.031	3.3	<.1	3.2

## 01411400 FISHING CREEK AT RIO GRANDE, NJ—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 4 of 5

[Remark codes: &lt;, less than; E, estimated.]

Date	Organic carbon, water, fltrd, mg/L (00681)	Arsenic water, fltrd, µg/L (01000)	Arsenic water, unfltrd, µg/L (01002)	Barium, water, unfltrd recover -able, µg/L (01007)	Beryllium, water, unfltrd recover -able, µg/L (01012)	Boron, water, fltrd, µg/L (01020)	Boron, water, unfltrd recover -able, µg/L (01022)	Cadmium water, unfltrd, µg/L (01027)	Chromium, water, unfltrd recover -able, µg/L (01034)	Copper, water, fltrd, µg/L (01040)	Copper, water, unfltrd recover -able, µg/L (01042)	Iron, water, unfltrd recover -able, µg/L (01045)	Lead, water, fltrd, µg/L (01049)
	Nov 13...	15.2	--	--	--	--	21	--	--	--	--	--	--
Feb 20...	--	<.12	--	--	--	--	--	--	--	<.40	--	--	<.12
Feb 20...	11.5	.23	.34	13.8	E.04	17	18	E.02	E.30	--	<1.2	276	--
May 03...	18.2	--	--	--	--	26	--	--	--	--	--	--	--
Aug 21...	--	<.12	--	--	--	--	--	--	--	<.40	--	--	<.12
Aug 21...	10.3	.55	.72	21.7	<.06	34	34	E.01	<.60	--	<1.2	189	--

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 5 of 5

[Remark codes: &lt;, less than; E, estimated.]

Date	Lead, water, unfltrd recover -able, µg/L (01051)	Manganese, water, unfltrd recover -able, µg/L (01055)	Mercury water, fltrd, µg/L (71890)	Mercury water, unfltrd recover -able, µg/L (71900)	Nickel, water, fltrd, µg/L (01065)	Nickel, water, unfltrd recover -able, µg/L (01067)	Selenium, water, unfltrd, µg/L (01147)	Silver, water, unfltrd recover -able, µg/L (01077)	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd recover -able, µg/L (01092)
	Nov 13...	--	--	--	--	--	--	--	--	--
Feb 20...	--	--	<.010	--	E.03	--	--	--	<.60	--
Feb 20...	.54	53.4	--	.011	--	.46	.11	<.02	--	4
May 03...	--	--	--	--	--	--	--	--	--	--
Aug 21...	--	--	<.010	--	<.06	--	--	--	--	--
Aug 21...	.83	42.8	--	<.010	--	.31	.10	<.02	--	2.5