



Water-Data Report 2007

06325000 LITTLE POWDER RIVER AT BIDDLE, MT

Powder Basin
Little Powder Subbasin

LOCATION.--Lat 45°06'16.86", long 105°19'50.65" referenced to North American Datum of 1927, in SE ¼ sec.27, T.8 S., R.52 E., Powder River County, MT, Hydrologic Unit 10090208, at highway bridge 0.5 mi downstream from Ranch Creek and 0.8 mi northeast of Biddle.

DRAINAGE AREA.--1,541 mi².

GAGE.--None. Elevation at sampling site is 3,250 ft.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 2005 and August 2007.

REMARKS.--The water-quality sample collected at this site was made in conjunction with aquatic ecology samples collected for an interagency task group studying the effects of coal-bed natural gas development. Additional information is available at: <http://wy.water.usgs.gov/projects/atg/index.htm>.

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

Part 1 of 3

Date	Time	Instantaneous discharge, cfs (00061)	Turbidity white light, 90+/-30 corrctd NTRU (63676)	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 unfltrd 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)
Aug 09...	0830	8.1	23	676	6.8	87	8.1	4,090	25.5	21.0	1,100	219	141

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

Part 2 of 3

Date	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, water fltrd lab, mg/L as CaCO3 (29801)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate, water, fltrd, mg/L (00945)	Dissolved solids, sum of constituents, mg/L (70301)	Dissolved solids, tons/acre-ft (70303)	Dissolved solids, tons/d (70302)
Aug 09...	34.0	8.1	625	324	82.3	1.03	12.7	1,990	3,300	4.49	72.5

06325000 LITTLE POWDER RIVER AT BIDDLE, MT—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 3 of 3

Date	Time	Biomass peri- phyton, ashfree drymass g/m2 (49954)	Peri- phyton biomass ash weight, g/m2 (00572)	Peri- phyton biomass dry weight, g/m2 (00573)	Biomass chloro- phyll ratio, peri- phyton, number (70950)	Chloro- phyll a peri- phyton, chromo- fluoro, mg/m2 (70957)	Pheo- phytin a, peri- phyton, mg/m2 (62359)
Aug 09...	1030	4.1	210	217	926	4.4	1.4