



Water-Data Report 2007

**451607106372801 TONGUE RIVER AT PRAIRIE DOG CREEK, NEAR BIRNEY, MT**

Tongue Basin  
Lower Tongue Subbasin

LOCATION.--Lat 45°16'07", long 106°37'28" referenced to North American Datum of 1927, in SE ¼ NE ¼ SE ¼ sec.31, T.6 S., R.42 E., Rosebud County, MT, Hydrologic Unit 10090102, at mouth of Prairie Dog Creek, 7 mi southwest of Birney, and at river mile 176.1.

DRAINAGE AREA.--Not determined.

**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--November 1977, November 1978, August 2005 to current year.

GAGE.--None. Elevation of site is 3,200 ft, referenced to the National Geodetic Vertical Datum of 1929.

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

[Remark codes: <, less than.]

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 std units (00400)	Specific conductance, wat unfiltered 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 28...	1000	164	3.4	683	6.7	81	8.2	495	12.5	19.0	220	48.6	24.2

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

Part 2 of 3

[Remark codes: <, less than.]

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 28...	2.91	.7	23.9	174	2.70	.24	3.14	87.6	298	.40	132

451607106372801 TONGUE RIVER AT PRAIRIE DOG CREEK, NEAR BIRNEY, MT—Continued

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

Part 3 of 3

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

<b>Date</b>	<b>Time</b>	<b>Biomass peri- phyton, ashfree drymass g/m2 (49954)</b>	<b>Peri- phyton biomass ash weight, g/m2 (00572)</b>	<b>Peri- phyton biomass dry weight, g/m2 (00573)</b>	<b>Biomass chloro- phyll ratio, peri- phyton, number (70950)</b>	<b>Chloro- phyll a peri- phyton, chromo- fluoro, mg/m2 (70957)</b>	<b>Pheo- phytin a, peri- phyton, mg/m2 (62359)</b>
<b>Aug 28...</b>	1135	<14.5	660	670	1,060	12.7	9.4