



Water-Data Report 2006

**462342112174201 Local number 08N06W36DCBD02 (BUCKEYE WELL BTMW-3)**

Quaternary Alluvium  
Jefferson County, MT

LOCATION.--Lat 46°23'42", long 112°17'42" referenced to North American Datum of 1927, in NW ¼ SW ¼ SE ¼ sec.36, T.8 N., R.6 W., Jefferson County, MT, Hydrologic Unit 10020006.

**GROUND-WATER RECORDS**

WELL CHARACTERISTICS.--Depth 10.5 ft. Upper casing diameter 2 in; top of first opening 5.5 ft, bottom of last opening 10.5 ft. Drilled Oct. 21, 1998.

DATUM.--Land-surface datum is 7,035 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of casing, 3.5 ft above land-surface datum, June 15, 2006 to present.

PERIOD OF RECORD.--December 1998 to current year.

REMARKS.--All water levels are reported as distance, in feet below land-surface datum. No valid water levels are available from June 14, 1999 to June 14, 2006 due to frost upheaval of casing and measuring point; water-level data for this period have been removed from the database. The measuring point was resurveyed in June 2006 and subsequent water levels are considered reliable.

**WATER LEVELS IN FEET BELOW LAND SURFACE DATUM  
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**

[Measurement method: T, electric tape. Water-level status: --, static.]

Date	Water level	Measure-ment method	Water level status	Date	Water level	Measure-ment method	Water level status
Jun 15	3.09	T	--	Sep 11	4.06	T	--

Water year 2006 highest: 3.09 Jun 15, 2006; lowest: 4.06 Sep 11, 2006

Period of record highest: 2.90 May 20, 1999; lowest: 4.06 Sep 11, 2006

Record available from Dec 01, 1998, to Sep 11, 2006; 7 entries

**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--June 1999, July 2004 to current year.

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**  
 Part 1 of 3

Date	Time	Pump or flow period prior to sampling, minutes (72004)	Dis-solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat un f uS/cm 25 degC (00095)	Temper-ature, 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 adsorp-tion ratio (00931)	Sodium, water, fltrd, mg/L (00930)
Jun 16...	1110	3	--	5.7	793	5.5	320	94.4	21.6	1.66	.3	11.0
Sep 11...	1030	--	.4	5.9	373	9.0	130	39.1	8.55	1.16	.2	5.77

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**  
 Part 2 of 3

Date	Alka-linity, wat flt fxd end lab, mg/L as CaCO3 (29801)	Alka-linity, wat flt inc tit field, mg/L as CaCO3 (39086)	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 water, fltrd, tons/ acre-ft (70303)
Jun 16...	6	17	1.34	.45	48.9	448	727	.99
Sep 11...	--	45	.45	.34	35.4	140	296	.40

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006**  
 Part 3 of 3

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

Date	Alum-inum, water, fltrd, ug/L (01106)	Arsenic water, fltrd, ug/L (01000)	Cadmium water, fltrd, ug/L (01025)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Mangan-ese, water, fltrd, ug/L (01056)	Zinc, water, fltrd, ug/L (01090)
Jun 16...	336	9,160	71.6	3.8	70,000	5.19	3,780	5,940
Sep 11...	101	4,410	4.02	E.20	30,600	E2.40	1,630	1,400