



Water-Data Report 2006

462342112174801 Local number 08N06W36DCBC02 (BUCKEYE WELL BTMW-8)

Quaternary Alluvium
Jefferson County, MT

LOCATION.--Lat 46°23'42", long 112°17'48" 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. 22, 1998.

DATUM.--Land-surface datum is 7,035 ft above National Geodetic Vertical Datum of 1929. Measuring point: Top of PVC casing, 3.9 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	3.43	T	--	Sep 8	3.55	T	--

Water year 2006 highest: 3.43 Jun 15, 2006; lowest: 3.55 Sep 08, 2006

Period of record highest: 3.16 May 20, 1999; lowest: 4.62 Feb 23, 1999

Record available from Dec 01, 1998, to Sep 08, 2006; 7 entries

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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 std units (00400)	Specif. conduc-tance, wat unf 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...	1030	3	--	6.1	349	6.0	110	33.5	7.49	1.78	.2	5.89
Sep 11...	1210	--	1.5	6.8	261	10.0	110	31.2	7.05	1.78	.2	4.64

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...	75	78	.86	.28	33.5	55.8	198	.27
Sep 11...	93	108	.47	.15	27.6	27.6	177	.24

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 3 of 3

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...	89.7	63.3	.54	1.7	9,180	.15	990	2,330
Sep 11...	56.1	128	.85	.45	10,600	.70	872	139