



Water-Data Report 2007

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 7035 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; MP change due to heaving, 3.80 ft above land-surface datum, June 14, 2007, 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 LEVELS IN FEET BELOW LAND SURFACE DATUM
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

[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 14	3.03	T	--	Aug 28	3.97	T	--

Water year 2007 - highest: 3.03 Jun 14, 2007; lowest: 3.97 Aug 28, 2007

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

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

WATER-QUALITY RECORDS

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

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

Part 1 of 3

Date	Time	Flow rate, instantaneous gal/min (00059)	Pump or flow period prior to sampling, minutes (72004)	Sampling depth, feet (00003)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd, μ S/cm 25 deg C (00095)	Temperature, deg C (00010)	Hardness, water, mg/L as CaCO ₃ (00900)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
Jun 14...	1100	.30	10	10.0	5.7	1,120	--	430	125	28.0	1.33
Aug 28...	1200	.20	10	9.70	6.1	459	9.5	--	--	--	--

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

Part 2 of 3

Date	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, water fltrd lab, mg/L as CaCO ₃ (29801)	Alkalinity, water fltrd inc tit field, mg/L as CaCO ₃ (39086)	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)
Jun 14...	.3	12.2	6	17	1.55	.29	51.9	631	988
Aug 28...	--	--	--	--	--	--	--	--	--

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

Part 3 of 3

Date	Aluminum, water, fltrd, μ g/L (01106)	Arsenic, water, fltrd, μ g/L (01000)	Cadmium, water, fltrd, μ g/L (01025)	Copper, water, fltrd, μ g/L (01040)	Iron, water, fltrd, μ g/L (01046)	Lead, water, fltrd, μ g/L (01049)	Manganese, water, fltrd, μ g/L (01056)	Zinc, water, fltrd, μ g/L (01090)
Jun 14...	116	16,100	64.7	.42	99,600	7.97	5,350	4,890
Aug 28...	139	5,410	16.5	1.5	38,900	3.14	1,900	1,850