Water-Data Report 2009

462120112173701 BULLION MINE ADIT NEAR BASIN, MT

Missouri Headwaters Basin
Boulder Subbasin

LOCATION.--Lat 46°21′20″, long 112°17′37″ referenced to North American Datum of 1927, in NW ¼ SW ¼ SE ¼ sec.13, T.7 N., R.6 W., Jefferson County, MT, Hydrologic Unit 10020006, at PVC pipe draining the Bullion mine adit about 400 ft upstream from the Bullion mine tributary, 2 mi upstream from Jack Creek, and 6.3 mi northwest of Basin.

DRAINAGE AREA.--Indeterminate (subsurface).

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1999 to current year.

GAGE.--None. Elevation at site is 7,360 ft, referenced to the National Geodetic Vertical Datum of 1929.

REMARKS.--None

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 1 of 3

Date	Time	Temperature, air, deg C (00020)	Instantaneous discharge, ft³/s (00061)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unf µS/cm @ 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Calcium water unfltrd recoverable, mg/L (00916)	Magnesium, water, fltrd, mg/L (00925)	Magnesium, water, unfltrd recoverable, mg/L (00927)	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)
Apr													
22...	1045	10.0	.004	3.4	1,350	.0	300	73.5	66.7	28.0	24.7	3.05	.1
May													
27...	0915	9.0	.006	3.0	1,440	4.0	330	79.7	74.1	31.2	27.2	4.27	.2
Jun													
17...	1100	10.0	.017	2.5	3,100	5.0	360	82.1	78.6	37.0	35.1	3.20	.1
Aug													
17...	1000	7.5	.004	2.7	2,330	5.0	320	80.2	77.2	30.2	30.4	2.84	.1

462120112173701 Local number BULLION MINE ADIT NEAR BASIN, MT—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 2 of 3

Date	Sodium, water, fltrd, mg/L (00930)	Acidity water, unfltrd mg/L as CaCO3 (00435)	Chlor-ide, water, fltrd, mg/L (00940)	Fluor-ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L as SiO2 (00955)	Sulfate water, fltrd, mg/L (00945)	Alum-inum, water, fltrd, µg/L (01106)	Alum-inum, water, unfltrd recover-able, µg/L (01105)	Cadmium water, fltrd, µg/L (01025)	Cadmium water, unfltrd µg/L (01027)	Copper, water, fltrd, µg/L (01040)	Copper, water, unfltrd recover-able, µg/L (01042)	Iron-(II), water, fltrd µg/L (01047)
Apr													
22...	5.54	420	2.08	.43	39.5	749	8,810	9,540	331	295	3,530	3,450	150,000
May													
27...	6.39	430	.60	.43	37.9	778	8,420	8,960	370	310	3,030	3,000	170,000
Jun													
17...	4.06	1,400	1.06	.54	54.7	1,890	29,300	34,800	1,070	987	22,500	23,100	300,000
Aug													
17...	4.51	730	.79	.44	46.5	1,140	14,700	16,800	509	441	10,800	11,000	190,000

WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Part 3 of 3

Date	Iron-(III), water, fltrd, µg/L (61940)	Iron, water, fltrd, µg/L (01046)	Iron, water, unfltrd recover-able, µg/L (01045)	Lead, water, fltrd, µg/L (01049)	Lead, water, unfltrd recover-able, µg/L (01051)	Mangan-ese, water, fltrd, µg/L (01056)	Mangan-ese, water, unfltrd recover-able, µg/L (01055)	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd recover-able, µg/L (01092)	Arsenic water, fltrd, µg/L (01000)	Arsenic water, unfltrd µg/L (01002)
Apr											
22...	20,000	170,000	161,000	408	405	16,900	16,900	34,700	31,400	3,270	3,250
May											
27...	10,000	180,000	166,000	371	371	18,900	18,600	36,600	34,100	4,220	4,100
Jun											
17...	50,000	350,000	377,000	666	664	39,200	41,700	131,000	120,000	10,100	9,700
Aug											
17...	--	190,000	218,000	533	580	23,200	26,400	58,900	44,500	3,040	3,600