

Table 4. Major and trace-element data from total digestions of suspended sediments from the Boulder River watershed, Montana, 1997.

[Major element data expressed in weight percent; trace element data expressed in ppm (parts per million) or µg/g, dry weight basis]

Site Number (fig. 1)	Sample Number	Aluminum percent	Calcium percent	Iron percent	Potassium percent	Magnesium percent	Sodium percent	Phosphorous percent	Titanium percent
<u>BOULDER RIVER</u>									
4S	NIM-5	4.4	1.2	1.6	1.3	0.47	1.0	0.05	0.15
14S	NIM-2	7.3	1.6	2.1	3.0	0.51	1.8	0.05	0.21
<u>BASIN CREEK</u>									
30S	NIM-4	7.7	1.3	2.6	3.4	0.56	1.4	0.06	0.24
<u>CATARACT CREEK</u>									
50S	NIM-8	7.1	1.6	4.3	2.2	0.74	1.2	0.08	0.28
53S	NIM-3	7.6	1.7	3.2	3.1	0.6	1.6	0.06	0.3
53S	NIM-6	13	2.8	6.0	4.8	1.2	2.4	0.1	0.51
<u>UNCLE SAM GULCH</u>									
57S	NIM-1	6.9	1.1	3.8	3.0	0.48	1.2	0.05	0.20

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(continued)

Site Number (fig. 1)	Sample Number	Arsenic ppm	Barium ppm	Beryllium ppm	Cadmium ppm	Cerium ppm	Chromium ppm	Cobalt ppm	Copper ppm	Lanthanum ppm
<u>BOULDER RIVER</u>										
4S	NIM-5	20	510	1	< 2	32	36	6	60	17
14S	NIM-2	110	920	2	4	44	22	12	120	24
<u>BASIN CREEK</u>										
30S	NIM-4	160	870	3	7	60	34	18	130	32
<u>CATARACT CREEK</u>										
50S	NIM-8	1,500	570	2	47	67	28	66	2,000	38
53S	NIM-3	620	810	< 7	20	60	20	40	650	40
53S	NIM-6	720	1,200	3	30	110	48	52	1,000	63
<u>UNCLE SAM GULCH</u>										
57S	NIM-1	1,700	650	2	63	69	15	100	3,000	30

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(continued)

Site Number (fig. 1)	Sample Number	Lead ppm	Lithium ppm	Manganese ppm	Molybdenum ppm	Neodymium ppm	Nickel ppm	Niobium ppm	Scandium ppm	Silver ppm
<u>BOULDER RIVER</u>										
4S	NIM-5	42	18	1,300	< 2	15	10	7	5	< 2
14S	NIM-2	120	25	960	< 2	21	10	18	6	< 2
<u>BASIN CREEK</u>										
30S	NIM-4	180	30	1,400	< 2	30	12	21	7	< 2
<u>CATARACT CREEK</u>										
50S	NIM-8	720	47	3,400	5	33	14	19	10	8
53S	NIM-3	350	30	1,900	< 10	30	10	< 30	< 10	< 10
53S	NIM-6	550	64	3,700	5	47	22	31	20	20
<u>UNCLE SAM GULCH</u>										
57S	NIM-1	840	39	4,200	5	23	12	13	6	6

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(continued)

Site	Sample	Strontium	Vanadium	Ytterbium	Yttrium	Zinc	Water Volume Liter	Sample Weight Grams	Weight of sediment Grams/Liter
Number (fig. 1)	Number	ppm	ppm	ppm	ppm	ppm			
<u>BOULDER RIVER</u>									
4S	NIM-5	320	36	1	10	130	8.00	0.124	0.015500
14S	NIM-2	470	50	2	16	800	7.50	0.428	0.057067
<u>BASIN CREEK</u>									
30S	NIM-4	290	58	3	28	950	7.50	0.184	0.024533
<u>CATARACT CREEK</u>									
50S	NIM-8	290	74	3	26	3,800	7.75	0.251	0.032387
53S	NIM-3	360	60	< 7	20	2,300	7.50	0.042	0.005600
53S	NIM-6	540	130	4	35	3,500	7.25	0.303	0.041793
<u>UNCLE SAM GULCH</u>									
57S	NIM-1	260	50	2	19	4,900	8.20	0.700	0.085366