

Table 3. Major and trace-element data from total digestions of residues from leach digestions of bed sediments from the Boulder River watershed, Montana

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

Site	Sample	Aluminum	Calcium	Iron	Potassium	Magnesium	Sodium	Phosphorous	Titanium
Number (fig. 1)	Number	percent	percent	percent	percent	percent	percent	percent	percent
BOULDER RIVER									
1S	97-BMS-137	9.5	1.8	1.2	2.0	0.35	2.3	0.01	0.22
	98-BMS-114	9.4	2.3	1.0	2.0	0.32	2.9	0.01	0.22
2S	96-BM-135	7.6	2.4	2.5	1.8	0.84	2.4	0.01	0.37
3S	97-BMS-115	7.9	2.8	3.8	1.8	1.0	2.3	0.01	0.60
	98-BMS-113	7.1	2.6	5.0	1.8	0.83	2.3	0.009	0.83
4S	96-BM-121	7.5	2.5	2.9	1.8	0.83	2.4	0.01	0.41
5S	96-BM-125A	7.0	2.2	4.6	1.8	0.77	2.0	0.02	0.50
	96-BM-125B	7.1	2.4	3.1	1.8	0.84	2.1	0.01	0.41
6S	96-BM-124A	7.3	2.3	2.5	1.8	0.81	2.2	0.02	0.34
	96-BM-124B	7.2	2.2	3.3	2.0	0.72	2.1	0.01	0.40
7S	97-BMS-114	7.7	2.5	3.4	1.9	0.83	2.4	0.01	0.45
8S	96-BM-127A	7.3	2.1	2.7	2.0	0.72	2.1	0.02	0.35
	96-BM-127B	6.9	2.2	4.4	1.8	0.76	2.1	0.01	0.48
9S	96-BM-128A	6.1	1.7	4.8	1.7	0.60	1.7	0.02	0.44
	96-BM-128B	7.4	2.2	3.5	2.0	0.72	2.2	0.01	0.39
10S	97-BMS-112	7.8	2.4	4.2	2.0	0.74	2.4	0.008	0.47
	98-BMS-116	6.9	2.1	3.5	1.9	0.71	2.0	0.01	0.43
11S	96-BM-130A	7.2	2.0	2.4	2.1	0.66	2.0	0.02	0.29
	96-BM-130B	7.1	2.3	8.1	1.9	0.74	2.2	0.01	0.62
12S	96-BM-129A	6.6	1.9	6.1	1.8	0.63	1.9	0.02	0.46
	96-BM-129B	6.0	1.8	7.0	1.8	0.59	1.7	0.01	0.46
13S	96-BM-137A	5.9	1.8	9.5	1.7	0.64	1.7	0.01	0.60
	96-BM-137B	5.4	1.6	8.7	1.6	0.54	1.5	0.01	0.47

Table 3. Major and trace-element data from total digestions of residues from leach digestions of bed sediments from the Boulder River watershed, Montana—(continued)

Site	Sample	Aluminum	Calcium	Iron	Potassium	Magnesium	Sodium	Phosphorous	Titanium
Number (fig. 1)	Number	percent	percent	percent	percent	percent	percent	percent	percent
14S	97-BMS-119	5.3	1.3	15	1.6	0.48	1.2	0.01	0.72
	97-BMS-111	7.6	2.2	3.5	2.1	0.64	2.1	0.009	0.36
	98-BMS-106	7.3	2.2	3.0	2.1	0.67	2.1	0.009	0.36
15S	96-BM-138	6.4	2.0	6.5	1.8	0.66	1.9	0.01	0.44
16S	96-BM-132	6.7	1.7	4.3	1.9	0.53	1.8	0.02	0.40
17S	96-BM-134	7.2	2.2	2.4	2.1	0.66	2.2	0.01	0.41
18S	96-BM-133	6.4	2.1	3.5	1.9	0.83	1.9	0.01	0.48
<u>BASIN CREEK</u>									
20S	98-BMS-104	7.0	1.8	11	2.1	0.71	1.5	0.02	0.78
21aS	97-BMS-101-19	6.3	1.4	16	1.8	0.64	1.3	0.02	0.87
21bS	97-BMS-101-A7	7.4	1.5	9.5	2.1	0.66	1.4	0.02	0.61
21cS	97-BMS-101-B7	6.1	1.4	12	1.7	0.67	1.2	0.02	0.81
21dS	97-BMS-101-C7	4.4	1.0	21	1.4	0.47	1.0	0.02	0.95
21eS	96-BM-136	7.0	1.6	4.9	1.9	0.79	1.4	0.02	0.53
22S	96-BM-107	6.8	0.30	2.8	2.8	0.24	0.90	0.01	0.21
23S	96-BM-109	6.6	0.82	2.1	2.5	0.34	1.1	0.02	0.22
24S	98-BMS-103	6.9	1.0	4.1	2.5	0.45	1.1	0.02	0.49
25S	98-BMS-101	6.6	0.81	2.1	2.5	0.32	1.2	0.02	0.35
26S	98-BMS-102	5.8	1.8	7.2	1.9	0.84	1.4	0.01	0.74
27S	96-BM-110	7.0	1.6	3.0	2.3	0.66	1.6	0.02	0.38
28S	96-BM-123	7.0	1.7	3.6	2.4	0.63	1.7	0.02	0.40
29S	96-BM-122	6.8	1.5	3.0	2.4	0.56	1.5	0.02	0.35
30S	97-BMS-117	7.7	1.7	3.8	2.7	0.62	1.7	0.01	0.44
	98-BMS-110	7.1	1.6	4.4	2.7	0.60	1.5	0.02	0.48
31S	96-BM-126	6.9	1.5	3.4	2.4	0.54	1.6	0.02	0.36

Table 3. Major and trace-element data from total digestions of residues from leach digestions of bed sediments from the Boulder River watershed, Montana—(continued)

Site	Sample	Aluminum	Calcium	Iron	Potassium	Magnesium	Sodium	Phosphorous	Titanium
Number (fig. 1)	Number	percent	percent	percent	percent	percent	percent	percent	percent
JACK CREEK									
32S	97-BMS-102s1	6.9	2.5	6.6	1.6	1.2	1.7	0.03	0.69
33S	97-BMS-102s2	6.4	1.4	5.6	2.3	0.71	1.3	0.02	0.38
34S	96-BM-115	5.2	0.9	2.0	1.7	0.52	0.84	0.02	0.22
35S	97-BMS-104G	2.2	0.02	0.31	0.83	0.07	0.03	0.009	0.06
36S	97-BMS-105G	2.3	0.01	0.27	0.92	0.08	0.02	0.009	0.06
	97-BMS-105S	6.4	1.5	2.0	1.3	0.83	1.3	0.03	0.42
37S	97-BMS-106G	2.7	0.02	0.31	1.0	0.09	0.03	0.02	0.10
38S	97-BMS-140	6.4	2.1	10	1.8	0.92	1.7	0.02	0.70
	99-BMS-107	7.8	2.5	7.9	2.3	1.0	2.0	0.02	0.65
39S	97-BMS-122	6.3	1.3	5.9	1.8	0.70	1.3	0.03	0.40
	98-BMS-112	6.4	2.2	9.0	2.1	0.95	1.6	0.01	0.69
40S	96-BM-111	6.6	1.8	3.8	1.8	0.87	1.5	0.02	0.39
	97-BMS-107GA	7.5	1.5	2.6	1.6	1.0	1.4	0.03	0.48
	98-BMS-111	6.6	2.0	4.8	2.0	0.84	1.6	0.02	0.48
	97-BMS-107GB	4.1	0.65	1.5	1.3	0.36	0.59	0.01	0.21
	97-BMS-116	6.6	2.3	9.6	1.8	0.93	1.6	0.02	0.68
43S	96-BM-113	6.5	1.4	2.6	2.0	0.74	1.3	0.04	0.34
43S	96-BM-114	1.3	0.41	2.3	0.36	0.18	0.20	0.02	0.12
41S	96-BM-112	5.4	1.8	14	1.5	0.85	1.4	0.02	0.82
42S	96-BM-108	6.9	2.0	2.7	2.0	0.88	1.6	0.02	0.36
CATARACT CREEK									
44S	97-BMS-120	7.5	2.1	3.2	1.9	0.62	2.1	0.02	0.48
45S	97-BMS-124	7.0	1.4	9.1	2.1	0.54	1.5	0.02	0.70

Table 3. Major and trace-element data from total digestions of residues from leach digestions of bed sediments from the Boulder River watershed, Montana—(continued)

Site	Sample	Aluminum	Calcium	Iron	Potassium	Magnesium	Sodium	Phosphorous	Titanium
Number (fig. 1)	Number	percent	percent	percent	percent	percent	percent	percent	percent
46S	96-BM-120	7.4	2.4	5.9	1.8	0.71	2.3	0.01	0.50
	97-BMS-121	6.4	2.1	18	1.5	0.63	2.0	0.01	0.99
	98-BMS-109	5.8	2.1	15	1.5	0.66	1.8	<0.005	0.95
47S	97-BMS-126	6.6	1.0	3.3	2.1	0.44	1.3	0.04	0.41
48S	96-BM-119	7.0	2.2	7.5	1.8	0.68	2.0	0.02	0.59
49S	97-BMS-127	8.6	2.5	4.6	2.2	0.74	2.2	0.02	0.48
50S	96-BM-117	6.6	1.6	1.9	2.3	0.49	1.8	0.009	0.24
	97-BMS-136	7.7	1.9	4.5	2.3	0.60	2.0	0.009	0.54
	98-BMS-118	7.3	2.0	4.0	2.2	0.61	2.0	0.01	0.52
51S	96-BM-131	7.0	1.9	4.2	2.1	0.62	2.0	0.02	0.40
52S	97-BMS-128	8.7	1.6	5.5	2.2	0.20	2.9	0.01	0.29
53S	96-BM-106	7.0	1.6	5.4	2.1	0.56	1.7	0.02	0.44
	97-BMS-113	7.5	2.0	6.2	2.2	0.61	1.9	0.01	0.55
	98-BMS-117	6.7	2.0	4.8	2.1	0.76	1.7	0.02	0.47
UNCLE SAM GULCH									
54S	97-BMS-108s1	9.1	2.0	1.2	1.5	0.27	3.1	0.02	0.33
55S	96-BM-116	7.2	1.1	2.7	2.4	0.34	1.5	0.02	0.28
56S	97-BMS-134	4.2	0.86	4.4	1.2	0.37	0.92	0.01	0.31
57S	96-BM-118	6.9	1.7	2.6	2.1	0.53	1.9	0.01	0.38
HIGH ORE CREEK									
58S	98-BMS-115	7.2	1.5	1.4	2.1	0.46	1.8	0.02	0.26
59S	96-BM-101	2.8	0.21	2.6	0.79	0.14	0.34	0.02	0.07
60S	96-BM-102	2.6	0.35	3.6	0.81	0.11	0.48	<0.005	0.08
	98-BMS-107	3.4	0.54	5.8	1.0	0.16	0.78	0.005	0.11

61S	96-BM-103	4.7	1.2	4.8	1.6	0.39	1.3	0.01	0.26
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Table 3. Major and trace-element data from total digestions of bed sediments from the Boulder River watershed, Montana—(continued)

Site	Sample	Aluminum	Calcium	Iron	Potassium	Magnesium	Sodium	Phosphorous	Titanium
Number (fig. 1)	Number	percent	percent	percent	percent	percent	percent	percent	percent
62S	96-BM-104	4.3	0.88	4.8	1.4	0.30	1.0	0.01	0.22
63S	96-BM-105A	4.2	1.0	8.1	1.3	0.36	1.0	0.01	0.24
	96-BM-105B	3.6	0.64	3.7	1.2	0.29	0.64	0.01	0.16
	97-BMS-118	4.8	1.0	6.9	1.5	0.34	1.1	0.008	0.24
	98-BMS-108	4.7	1.2	9.5	1.7	0.41	1.1	0.006	0.30
<u>LITTLE BOULDER RIVER</u>									
19S	96-BM-140	6.0	2.6	14	1.4	1.1	1.8	0.01	0.65
	97-BMS-110	6.8	2.8	8.9	1.6	1.0	2.0	0.01	0.59
	98-BMS-105	4.9	2.3	17	1.2	0.93	1.4	<0.005	0.86

Table 3. Major and trace-element data from total digestions of residues from leach digestions of bed sediments from the Boulder River watershed, Montana—(continued)

Site Number (fig. 1)	Sample Number	Arsenic ppm	Barium ppm	Beryllium ppm	Cadmium ppm	Cerium ppm	Chromium ppm	Cobalt ppm	Copper ppm
BOULDER RIVER									
1S	97-BMS-137	<10	920	2	<2	81	26	<1	5
	98-BMS-114	<10	900	2	<2	73	32	7	2
2S	96-BM-135	<10	700	2	<2	80	38	7	9
3S	97-BMS-115	<10	690	2	<2	180	48	6	5
	98-BMS-113	16	660	2	<2	210	56	15	<1
4S	96-BM-121	<10	720	2	<2	100	44	6	4
5S	96-BM-125A	37	770	2	<2	100	56	8	110
	96-BM-125B	31	680	2	<2	100	42	7	67
6S	96-BM-124A	13	690	2	<2	65	38	6	40
	96-BM-124B	17	680	2	<2	81	43	7	21
7S	97-BMS-114	<10	700	2	<2	120	43	6	26
8S	96-BM-127A	12	700	2	<2	86	39	6	22
	96-BM-127B	20	800	2	<2	110	56	8	33
9S	96-BM-128A	24	730	2	<2	97	57	7	43
	96-BM-128B	31	660	2	<2	80	43	7	14
10S	97-BMS-112	33	730	2	<2	110	50	5	49
	98-BMS-116	35	640	2	<2	97	42	11	17
11S	96-BM-130A	24	680	2	<2	55	32	6	43
	96-BM-130B	24	740	2	<2	150	92	11	28
12S	96-BM-129A	92	620	2	<2	85	70	9	53
	96-BM-129B	1,000	260	1	<2	83	75	11	120
13S	96-BM-137A	580	540	1	<2	130	100	13	92
	96-BM-137B	2,100	60	1	9	100	80	16	270

Table 3. Major and trace-element data from total digestions of residues from leach digestions of bed sediments from the Boulder River watershed, Montana—(continued)

Site Number (fig. 1)	Sample Number	Arsenic ppm	Barium ppm	Beryllium ppm	Cadmium ppm	Cerium ppm	Chromium ppm	Cobalt ppm	Copper ppm
14S	97-BMS-119	670	240	<1	4	130	160	12	190
	97-BMS-111	210	690	2	<2	82	36	7	64
	98-BMS-106	99	650	2	<2	82	36	10	20
15S	96-BM-138	370	660	2	<2	96	69	10	48
16S	96-BM-132	82	700	2	<2	83	50	7	50
17S	96-BM-134	23	690	2	<2	120	38	5	16
18S	96-BM-133	12	630	1	<2	85	110	7	8
<u>BASIN CREEK</u>									
20S	98-BMS-104	44	500	2	<2	120	120	15	2
21aS	97-BMS-101-19	170	280	<1	<2	96	170	9	21
21bS	97-BMS-101-A7	250	330	1	<2	70	95	8	18
21cS	97-BMS-101-B7	350	280	<1	<2	100	120	8	23
21dS	97-BMS-101-C7	370	240	<1	<2	100	220	6	27
21eS	96-BM-136	410	350	2	<2	75	52	8	19
22S	96-BM-107	14	320	5	<2	36	28	4	6
23S	96-BM-109	65	470	3	<2	46	22	4	9
24S	98-BMS-103	52	640	2	<2	63	37	11	4
25S	98-BMS-101	15	640	2	<2	51	20	8	4
26S	98-BMS-102	120	500	2	<2	140	82	15	18
27S	96-BM-110	48	570	2	<2	60	32	7	11
28S	96-BM-123	47	600	2	<2	75	38	7	13
29S	96-BM-122	33	600	2	<2	65	31	5	10
30S	97-BMS-117	37	750	2	<2	77	36	5	23
	98-BMS-110	52	650	2	<2	85	46	12	29
31S	96-BM-126	24	640	2	<2	69	38	6	20

Table 3. Major and trace-element data from total digestions of residues from leach digestions of bed sediments from the Boulder River watershed, Montana—(continued)

Site Number (fig. 1)	Sample Number	Arsenic ppm	Barium ppm	Beryllium ppm	Cadmium ppm	Cerium ppm	Chromium ppm	Cobalt ppm	Copper ppm
JACK CREEK									
32S	97-BMS-102s1	17	360	2	<2	100	76	9	14
33S	97-BMS-102s2	340	550	1	<2	71	74	8	47
34S	96-BM-115	370	350	1	<2	32	23	5	42
35S	97-BMS-104G	140	43	<1	4	18	6	<1	10
36S	97-BMS-105G	110	67	<1	3	15	6	<1	5
	97-BMS-105S	38	330	2	<2	47	33	6	23
37S	97-BMS-106G	82	55	<1	<2	19	10	<1	3
38S	97-BMS-140	92	300	1	<2	100	130	10	28
	99-BMS-107	100	520	2	<2	110	93	16	26
39S	97-BMS-122	190	390	1	<2	49	71	7	34
	98-BMS-112	120	480	2	<2	130	110	15	21
40S	96-BM-111	160	380	2	<2	62	44	8	41
	97-BMS-107GA	53	380	2	<2	70	34	7	30
	98-BMS-111	120	420	2	<2	86	53	12	22
	97-BMS-107GB	100	170	1	<2	25	22	2	10
	97-BMS-116	140	360	1	<2	130	110	10	39
43S	96-BM-113	30	560	1	<2	50	32	7	17
43S	96-BM-114	320	110	<1	<2	8	8	8	490
41S	96-BM-112	100	350	1	<2	160	180	14	25
42S	96-BM-108	110	450	2	<2	67	29	7	31
CATARACT CREEK									
44S	97-BMS-120	10	460	2	<2	100	33	4	9
45S	97-BMS-124	70	420	1	<2	120	100	9	93

Table 3. Major and trace-element data from total digestions of residues from leach digestions of bed sediments from the Boulder River watershed, Montana—(continued)

Site Number (fig. 1)	Sample Number	Arsenic ppm	Barium ppm	Beryllium ppm	Cadmium ppm	Cerium ppm	Chromium ppm	Cobalt ppm	Copper ppm
46S	96-BM-120	13	450	2	<2	94	61	8	6
	97-BMS-121	<10	360	<1	<2	180	180	6	12
	98-BMS-109	23	560	2	<2	190	150	16	<1
47S	97-BMS-126	19	610	1	<2	120	41	4	16
48S	96-BM-119	47	490	2	<2	160	78	9	43
49S	97-BMS-127	58	570	2	<2	100	41	5	37
50S	96-BM-117	140	480	2	<2	59	18	4	32
	97-BMS-136	510	460	2	<2	110	37	6	86
	98-BMS-118	270	510	2	<2	120	34	11	58
51S	96-BM-131	200	480	2	<2	91	44	7	61
52S	97-BMS-128	15	500	3	<2	65	46	2	11
53S	96-BM-106	130	620	2	<2	74	61	8	40
	97-BMS-113	230	620	2	<2	120	60	7	83
	98-BMS-117	130	450	2	<2	79	52	12	29
UNCLE SAM GULCH									
54S	97-BMS-108s1	11	400	3	<2	130	17	<1	6
55S	96-BM-116	1,400	350	2	<2	92	20	4	87
56S	97-BMS-134	230	170	1	9	48	46	6	98
57S	96-BM-118	360	440	2	<2	96	22	6	81
HIGH ORE CREEK									
58S	98-BMS-115	14	620	2	<2	39	36	7	3
59S	96-BM-101	2,800	210	<1	10	10	8	12	320
60S	96-BM-102	4,000	37	<1	8	16	10	16	280
	98-BMS-107	6,100	98	<1	12	46	12	17	610
61S	96-BM-103	1,900	110	1	2	61	49	12	110

Table 3. Major and trace-element data from total digestions of residues from leach digestions of bed sediments from the Boulder River watershed, Montana—(continued)

Site Number (fig. 1)	Sample Number	Arsenic ppm	Barium ppm	Beryllium ppm	Cadmium ppm	Cerium ppm	Chromium ppm	Cobalt ppm	Copper ppm
62S	96-BM-104	3,300	39	1	6	51	31	16	270
63S	96-BM-105A	4,000	50	1	6	46	74	16	240
	96-BM-105B	2,000	55	<1	2	30	30	10	150
	97-BMS-118	3,200	84	1	8	63	61	14	330
	98-BMS-108	3,100	210	1	4	83	87	14	310
<u>LITTLE BOULDER RIVER</u>									
19S	96-BM-140	13	290	2	<2	120	120	16	6
	97-BMS-110	<10	320	2	<2	120	82	10	10
	98-BMS-105	26	470	2	<2	120	170	18	<1

Table 3. Major and trace-element data from total digestions of residues from leach digestions of bed sediments from the Boulder River watershed, Montana—(continued)

Site Number (fig. 1)	Sample Number	Lanthanum ppm	Lead ppm	Lithium ppm	Manganese ppm	Molybdenum ppm	Neodymium ppm	Nickel ppm	Niobium ppm
BOULDER RIVER									
1S	97-BMS-137	46	9	25	180	<2	31	6	30
	98-BMS-114	45	18	28	120	<2	27	10	34
2S	96-BM-135	48	9	18	540	<2	20	33	8
3S	97-BMS-115	97	10	18	790	<2	73	9	42
	98-BMS-113	120	8	16	1,000	<2	76	14	42
4S	96-BM-121	58	9	18	570	<2	23	42	8
5S	96-BM-125A	59	23	18	650	<2	23	43	10
	96-BM-125B	60	16	17	580	<2	20	41	8
6S	96-BM-124A	39	15	19	490	<2	19	28	8
	96-BM-124B	49	18	18	500	<2	24	31	8
7S	97-BMS-114	68	15	18	580	<2	50	9	34
8S	96-BM-127A	54	16	19	450	<2	19	34	8
	96-BM-127B	67	34	19	630	<2	24	44	9
9S	96-BM-128A	58	46	20	550	<2	22	38	8
	96-BM-128B	49	26	18	530	<2	22	31	8
10S	97-BMS-112	58	22	18	570	3	44	8	34
	98-BMS-116	56	22	17	510	<2	37	12	34
11S	96-BM-130A	32	24	19	380	<2	18	23	8
	96-BM-130B	91	21	18	780	<2	32	56	11
12S	96-BM-129A	49	28	19	570	<2	25	34	9
	96-BM-129B	51	41	18	560	<2	22	31	9
13S	96-BM-137A	78	30	16	750	<2	29	47	11
	96-BM-137B	63	61	16	580	<2	24	38	10

Table 3. Major and trace-element data from total digestions of residues from leach digestions of bed sediments from the Boulder River watershed, Montana—(continued)

Site Number (fig. 1)	Sample Number	Lanthanum ppm	Lead ppm	Lithium ppm	Manganese ppm	Molybdenum ppm	Neodymium ppm	Nickel ppm	Niobium ppm
14S	97-BMS-119	74	92	19	820	23	56	14	18
	97-BMS-111	48	37	19	450	2	32	6	31
	98-BMS-106	47	26	18	440	<2	33	11	32
15S	96-BM-138	57	38	17	570	<2	23	34	9
16S	96-BM-132	49	37	18	430	<2	22	34	7
17S	96-BM-134	72	23	17	480	<2	24	45	6
18S	96-BM-133	52	9	16	540	<2	25	31	14
<u>BASIN CREEK</u>									
20S	98-BMS-104	76	10	18	700	<2	44	20	33
21aS	97-BMS-101-19	54	38	16	810	3	43	12	24
21bS	97-BMS-101-A7	38	34	20	530	2	32	9	28
21cS	97-BMS-101-B7	57	60	17	740	<2	39	11	30
21dS	97-BMS-101-C7	57	79	13	900	<2	46	12	10
21eS	96-BM-136	44	48	20	490	<2	26	26	8
22S	96-BM-107	18	20	40	150	<2	65	14	5
23S	96-BM-109	26	30	28	210	<2	35	18	6
24S	98-BMS-103	36	24	28	350	<2	24	11	54
25S	98-BMS-101	30	20	23	220	<2	19	7	46
26S	98-BMS-102	82	34	15	790	<2	47	16	41
27S	96-BM-110	34	23	21	430	<2	25	24	6
28S	96-BM-123	46	19	19	450	<2	27	27	6
29S	96-BM-122	38	21	21	370	<2	23	26	6
30S	97-BMS-117	43	36	21	420	<2	32	6	43
	98-BMS-110	51	31	20	440	<2	31	12	43
31S	96-BM-126	42	29	21	370	<2	24	24	7

Table 3. Major and trace-element data from total digestions of residues from leach digestions of bed sediments from the Boulder River watershed, Montana—(continued)

Site Number (fig. 1)	Sample Number	Lanthanum ppm	Lead ppm	Lithium ppm	Manganese ppm	Molybdenum ppm	Neodymium ppm	Nickel ppm	Niobium ppm
JACK CREEK									
32S	97-BMS-102s1	56	17	24	970	2	44	13	43
33S	97-BMS-102s2	42	130	20	460	2	29	9	24
34S	96-BM-115	19	220	24	230	<2	15	15	6
35S	97-BMS-104G	10	550	37	51	<2	7	<2	7
36S	97-BMS-105G	9	460	40	60	<2	6	<2	6
	97-BMS-105S	27	22	41	420	3	22	10	30
37S	97-BMS-106G	11	760	34	55	<2	7	<2	9
38S	97-BMS-140	53	38	15	770	<2	44	11	33
	99-BMS-107	61	20	18	730	<2	40	17	50
39S	97-BMS-122	26	110	19	450	4	23	10	21
	98-BMS-112	76	22	14	760	<2	46	20	36
40S	96-BM-111	35	44	22	500	<2	23	25	8
	97-BMS-107GA	42	24	38	420	5	29	10	34
	98-BMS-111	50	31	16	530	<2	32	13	36
	97-BMS-107GB	16	320	28	200	<2	12	4	15
	97-BMS-116	76	52	17	900	<2	54	11	34
43S	96-BM-113	30	11	19	360	<2	18	22	8
43S	96-BM-114	5	160	6	220	11	6	<4	4
41S	96-BM-112	99	27	16	1,000	<2	40	56	13
42S	96-BM-108	40	39	19	490	<2	20	28	9
CATARACT CREEK									
44S	97-BMS-120	61	9	20	380	3	36	8	37
45S	97-BMS-124	66	31	24	730	19	45	11	42

Table 3. Major and trace-element data from total digestions of residues from leach digestions of bed sediments from the Boulder River watershed, Montana—(continued)

Site Number (fig. 1)	Sample Number	Lanthanum ppm	Lead ppm	Lithium ppm	Manganese ppm	Molybdenum ppm	Neodymium ppm	Nickel ppm	Niobium ppm
46S	96-BM-120	59	7	14	640	<2	26	34	7
	97-BMS-121	110	38	10	1,200	<2	75	14	29
	98-BMS-109	120	8	9	1,100	<2	64	25	28
47S	97-BMS-126	66	17	23	470	3	43	9	33
48S	96-BM-119	100	20	15	730	<2	30	55	11
49S	97-BMS-127	62	23	17	570	<2	38	7	38
50S	96-BM-117	38	64	23	450	<2	16	20	4
	97-BMS-136	59	210	22	680	<2	43	7	49
	98-BMS-118	73	95	20	600	<2	43	11	45
51S	96-BM-131	54	87	19	520	<2	25	31	7
52S	97-BMS-128	38	24	13	160	2	25	7	36
53S	96-BM-106	46	47	23	500	<2	24	27	9
	97-BMS-113	68	90	20	640	2	46	8	44
	98-BMS-117	46	39	16	530	<2	29	13	34
UNCLE SAM GULCH									
54S	97-BMS-108s1	75	10	19	310	2	43	5	57
55S	96-BM-116	55	620	48	300	4	29	34	4
56S	97-BMS-134	29	190	23	350	2	22	8	16
57S	96-BM-118	59	150	25	540	<2	27	35	5
HIGH ORE CREEK									
58S	98-BMS-115	25	17	36	160	<2	14	10	23
59S	96-BM-101	6	310	20	270	8	5	4	4
60S	96-BM-102	10	110	24	160	4	6	5	2
	98-BMS-107	26	160	19	220	<2	18	10	8
61S	96-BM-103	37	58	16	290	<2	15	22	6

Table 3. Major and trace-element data from total digestions of residues from leach digestions of bed sediments from the Boulder River watershed, Montana—(continued)

Site Number (fig. 1)	Sample Number	Lanthanum ppm	Lead ppm	Lithium ppm	Manganese ppm	Molybdenum ppm	Neodymium ppm	Nickel ppm	Niobium ppm
62S	96-BM-104	31	94	22	260	3	13	18	4
63S	96-BM-105A	28	84	20	330	2	14	18	7
	96-BM-105B	19	88	24	240	2	10	11	6
	97-BMS-118	38	110	21	340	5	27	7	10
	98-BMS-108	50	78	18	350	<2	32	17	10
<u>LITTLE BOULDER RIVER</u>									
19S	96-BM-140	71	<4	10	1,100	<2	34	49	11
	97-BMS-110	65	18	11	920	<2	53	10	28
	98-BMS-105	64	<4	8	1,200	<2	55	27	21

Table 3. Major and trace-element data from total digestions of residues from leach digestions of bed sediments from the Boulder River watershed, Montana—(continued)

Site Number (fig. 1)	Sample Number	Scandium ppm	Silver ppm	Strontium ppm	Thorium ppm	Tin ppm	Vanadium ppm	Ytterbium ppm	Yttrium ppm	Zinc ppm
BOULDER RIVER										
1S	97-BMS-137	6	<2	690	24	<5	32	1	14	34
	98-BMS-114	5	<2	970	15	<5	26	1	9	25
2S	96-BM-135	14	<2	610	18	<5	78	21	2	42
3S	97-BMS-115	16	<2	620	40	<5	130	3	28	64
	98-BMS-113	15	<2	610	62	<5	190	3	28	47
4S	96-BM-121	14	<2	620	22	<5	93	23	2	39
5S	96-BM-125A	13	<2	540	24	<5	150	22	2	740
	96-BM-125B	14	<2	560	20	<5	97	21	2	160
6S	96-BM-124A	13	<2	570	15	<5	74	19	2	180
	96-BM-124B	13	<2	530	22	<5	110	23	2	150
7S	97-BMS-114	14	<2	600	32	<5	120	3	23	170
8S	96-BM-127A	12	<2	540	15	<5	82	19	2	320
	96-BM-127B	13	<2	540	20	<5	150	23	2	250
9S	96-BM-128A	11	<2	440	20	<5	160	20	2	610
	96-BM-128B	13	<2	530	14	<5	120	21	2	180
10S	97-BMS-112	13	<2	570	17	<5	150	3	22	260
	98-BMS-116	12	<2	520	26	<5	120	2	21	140
11S	96-BM-130A	11	<2	500	12	<5	72	16	2	230
	96-BM-130B	14	<2	530	27	<5	290	26	2	460
12S	96-BM-129A	12	<2	450	19	<5	210	20	2	550
	96-BM-129B	11	<2	400	21	<5	240	19	2	580
13S	96-BM-137A	12	<2	420	31	<5	340	24	2	740
	96-BM-137B	10	6	360	18	<5	260	20	2	2,000

Table 3. Major and trace-element data from total digestions of residues from leach digestions of bed sediments from the Boulder River watershed, Montana—(continued)

Site Number (fig. 1)	Sample Number	Scandium ppm	Silver ppm	Strontium ppm	Thorium ppm	Tin ppm	Vanadium ppm	Ytterbium ppm	Yttrium ppm	Zinc ppm
14S	97-BMS-119	11	7	280	29	6	590	3	20	2,400
	97-BMS-111	11	3	520	19	<5	110	2	17	350
	98-BMS-106	12	<2	550	18	<5	110	2	20	200
15S	96-BM-138	12	<2	450	36	<5	230	21	2	520
16S	96-BM-132	10	<2	460	20	<5	150	19	2	690
17S	96-BM-134	11	<2	550	23	<5	78	24	2	320
18S	96-BM-133	12	<2	440	13	<5	120	21	2	91
BASIN CREEK										
20S	98-BMS-104	18	<2	300	36	<5	520	2	22	70
21aS	97-BMS-101-19	14	<2	230	20	<5	700	3	22	110
21bS	97-BMS-101-A7	15	<2	260	23	<5	410	2	20	100
21cS	97-BMS-101-B7	14	<2	220	26	<5	530	3	21	180
21dS	97-BMS-101-C7	11	<2	160	22	7	930	2	17	140
21eS	96-BM-136	17	<2	260	19	<5	200	20	2	150
22S	96-BM-107	5	<2	160	20	<5	75	48	6	110
23S	96-BM-109	8	<2	230	17	<5	58	34	4	120
24S	98-BMS-103	11	<2	250	20	<5	130	3	25	100
25S	98-BMS-101	8	<2	240	18	<5	76	2	21	78
26S	98-BMS-102	17	<2	270	28	<5	310	3	29	140
27S	96-BM-110	13	<2	290	15	<5	100	25	3	88
28S	96-BM-123	12	<2	320	12	<5	130	25	3	76
29S	96-BM-122	12	<2	300	13	<5	100	23	2	85
30S	97-BMS-117	12	<2	310	18	<5	130	3	24	99
	98-BMS-110	13	<2	310	25	<5	170	3	24	110
31S	96-BM-126	11	<2	320	17	<5	120	22	2	82

Table 3. Major and trace-element data from total digestions of residues from leach digestions of bed sediments from the Boulder River watershed, Montana—(continued)

Site Number (fig. 1)	Sample Number	Scandium ppm	Silver ppm	Strontium ppm	Thorium ppm	Tin ppm	Vanadium ppm	Ytterbium ppm	Yttrium ppm	Zinc ppm
JACK CREEK										
32S	97-BMS-102s1	20	<2	310	35	<5	250	4	29	87
33S	97-BMS-102s2	13	<2	220	26	<5	210	2	17	340
34S	96-BM-115	11	<2	150	17	<5	60	11	1	300
35S	97-BMS-104G	3	6	10	<4	<5	27	<1	<2	500
36S	97-BMS-105G	3	3	9	<4	<5	31	<1	<2	360
	97-BMS-105S	13	<2	230	26	<5	60	2	15	150
37S	97-BMS-106G	4	<2	18	7	<5	44	<1	<2	110
38S	97-BMS-140	16	<2	290	29	<5	450	4	30	98
	99-BMS-107	19	<2	360	26	<5	350	3	25	93
39S	97-BMS-122	13	<2	220	18	<5	220	2	16	84
	98-BMS-112	18	<2	290	31	<5	400	3	28	100
40S	96-BM-111	16	<2	270	18	<5	140	22	2	190
	97-BMS-107GA	18	<2	240	39	<5	82	2	19	130
	98-BMS-111	15	<2	290	29	<5	200	2	23	120
	97-BMS-107GB	8	<2	110	13	<5	78	1	8	50
	97-BMS-116	18	<2	280	35	<5	400	4	28	180
43S	96-BM-113	14	<2	300	21	<5	88	16	2	50
43S	96-BM-114	3	8	49	<4	<5	19	3	<1	430
41S	96-BM-112	16	<2	240	39	<5	610	32	3	210
42S	96-BM-108	16	<2	300	18	<5	89	24	2	180
CATARACT CREEK										
44S	97-BMS-120	14	<2	400	24	<5	120	2	18	56
45S	97-BMS-124	13	<2	270	32	<5	380	2	17	110

Table 3. Major and trace-element data from total digestions of residues from leach digestions of bed sediments from the Boulder River watershed, Montana—(continued)

Site Number (fig. 1)	Sample Number	Scandium ppm	Silver ppm	Strontium ppm	Thorium ppm	Tin ppm	Vanadium ppm	Ytterbium ppm	Yttrium ppm	Zinc ppm
46S	96-BM-120	14	<2	460	20	<5	220	22	2	49
	97-BMS-121	12	<2	380	27	5	780	3	22	70
	98-BMS-109	15	<2	370	20	<5	660	2	22	53
47S	97-BMS-126	9	<2	250	38	<5	100	2	16	89
48S	96-BM-119	13	4	410	28	<5	270	25	2	190
49S	97-BMS-127	14	<2	430	24	<5	160	2	20	130
50S	96-BM-117	9	<2	350	13	<5	62	13	1	200
	97-BMS-136	11	2	400	22	<5	140	3	22	300
	98-BMS-118	12	<2	420	30	<5	140	2	20	170
51S	96-BM-131	11	<2	380	21	<5	150	19	2	180
52S	97-BMS-128	5	<2	500	46	<5	140	2	14	52
53S	96-BM-106	12	<2	340	17	<5	200	18	2	130
	97-BMS-113	12	2	390	25	<5	220	3	21	200
	98-BMS-117	14	<2	320	24	<5	190	2	21	120
UNCLE SAM GULCH										
54S	97-BMS-108s1	7	<2	480	52	<5	30	2	14	52
55S	96-BM-116	7	3	270	27	<5	66	18	2	310
56S	97-BMS-134	7	7	240	8	<5	160	1	9	2,300
57S	96-BM-118	10	<2	360	21	<5	74	18	2	250
HIGH ORE CREEK										
58S	98-BMS-115	8	<2	460	10	<5	48	<1	6	31
59S	96-BM-101	3	10	80	6	<5	17	2	<1	1,800
60S	96-BM-102	2	10	110	5	<5	33	3	<1	1,500
	98-BMS-107	5	24	170	14	<5	55	<1	4	2,200
61S	96-BM-103	8	4	260	16	<5	130	13	1	540

Table 3. Major and trace-element data from total digestions of residues from leach digestions of bed sediments from the Boulder River watershed, Montana—(continued)

Site Number (fig. 1)	Sample Number	Scandium ppm	Silver ppm	Strontium ppm	Thorium ppm	Tin ppm	Vanadium ppm	Ytterbium ppm	Yttrium ppm	Zinc ppm
62S	96-BM-104	7	11	200	13	<5	97	10	1	1,300
63S	96-BM-105A	8	7	200	15	<5	240	12	1	1,300
	96-BM-105B	6	4	140	11	<5	94	8	<1	510
	97-BMS-118	7	11	220	6	<5	210	1	10	1,600
	98-BMS-108	10	6	240	26	<5	320	1	14	830
LITTLE BOULDER RIVER										
19S	96-BM-140	20	<2	330	62	<5	520	39	4	86
	97-BMS-110	18	<2	360	66	<5	360	4	33	55
	98-BMS-105	20	<2	270	81	<5	790	4	38	69