

Table 2.

ANALYSES OF ROCKS, ALTERED ZONES, AND VEINS FROM THE YAKUTAT AND MOUNT ST. ELIAS QUADRANGLES, ALASKA

Analyses are by semiquantitative ^{spectrographic} methods except for Au, which was analyzed by atomic absorption methods. Fe, Mg, Ca, and Ti are reported in percent; all other elements are reported in parts per million. Results are reported in the series 1, 0.7, 0.5, 0.3, 0.2, 0.15, 0.1 and 0.05 parts. Analysts: A. Gorry, L. Martinez, R. Miller, and R. Tripp.

Remarks: All samples are grab samples unless otherwise indicated under "description". G = greater than 10 percent or greater than the value shown. N = not detected at limit of detection or at value shown. L = detected, but below limit of determination or below value shown. Elements looked for but not detected include Bi, Cd, Sb, Sn, and W.

Sample No.	Au	Fe	Mg	Ca	Ti	Mn	Ag	As	B	Br	Fe	Co	Cr	Cu	La	Hf	Nb	Ni	Pb	Sc	Sr	V	Y	Zn	Zr	Description					
68A-1 L(0.01)	20	5	3	1	3000	N	N	N	20	L	N	70	200	500	L	L	L	L	L	50	L	300	50	1500	30	Sulfide-bearing amphibolite					
68A-2 L(0.01)	3	.7	1.5	.3	500	N	N	L	500	1.5	10	5	15	20	N	L	L	L	5	300	30	20	N	300	Amphibolite						
70A L(0.01)	10	1.5	3	.3	1000	N	N	15	300	L	10	15	50	L	N	L	L	7	L	15	300	150	30	N	70	Quartz-diorite					
70C L(0.01)	15	3	5	.7	700	N	N	10	L	L	20	200	20	L	L	L	70	L	30	200	200	50	N	70	Amphibolite						
72C L(0.01)	15	3	3	1	700	.7	N	L	700	L	30	15	200	L	5	N	30	L	30	L	300	30	200	70	Greenstone with pyrite						
82B L(0.01)	5	1.5	2	.2	700	N	N	15	500	N	15	30	100	N	5	L	30	10	30	300	100	20	L	70	Altered tuff						
85A L(0.01)	3	.05	.07	.007	5000	N	L	N	L	N	5	N	5	N	N	L	L	N	N	N	N	15	10	N	L	Granulite					
85B L(0.01)	5	2	3	.3	500	N	L	N	500	N	15	100	200	N	N	L	70	L	20	200	100	10	N	200	Altered quartz diorite						
85C L(0.01)	10	3	3	.2	700	N	500	L	500	N	20	700	200	L	10	L	500	L	30	150	150	20	L	50	Altered zone						
103A L(0.01)	15	5	7	.7	1500	N	N	15	N	N	50	300	200	N	L	15	100	N	50	200	300	30	N	200	Sulfide-bearing amphibolite						
104C L(0.01)	3	.7	.7	.15	300	N	N	30	N	N	7	N	15	L	N	L	5	10	7	100	70	N	N	70	Altered quartz diorite						
105C L(0.01)	7	2	1.5	1	700	N	N	L	200	L	15	300	150	30	N	15	30	10	30	300	150	30	N	100	Pyritic metamorphic rock						
107B L(0.01)	.07	.05	.7	.015	150	N	N	N	700	N	N	5	7	N	N	L	5	N	N	N	N	15	N	N	L	Slate					
68AMK-2A L(0.01)	15	7	15	.7	700	N	N	20	150	N	20	150	150	150	L	L	100	L	30	300	200	30	N	70	Altered aplite						
2B L(0.01)	15	5	3	G(1)	700	N	N	20	150	N	100	30	150	L	5	L	70	L	50	500	200	30	200	30	Amphibolite						
3 L(0.01)	5	1.5	7	.3	500	N	N	L	70	1.5	7	70	100	70	L	L	15	10	15	700	150	30	N	100	Altered metasedimentary rocks						
73 L(0.01)	5	1.5	1	.2	200	N	N	30	700	L	7	70	10	20	L	L	30	10	15	300	150	10	L	70	Shear zone						
77 L(0.01)	5	1.5	.3	.3	200	N	N	30	700	L	10	70	20	30	7	L	30	10	15	300	150	10	L	100	Altered zone						
78 .01	5	1	1	.2	200	L	L	30	300	L	7	70	10	20	L	L	20	L	15	300	150	10	N	100	" "						
79 L(0.01)	7	2	1.5	.3	300	L	N	L	700	L	10	70	100	20	L	L	30	15	20	700	150	15	L	70	" "						
81 L(0.01)	5	1.5	2	.3	300	N	N	10	700	1	10	70	30	20	N	L	30	10	15	700	150	15	L	100	Schist						
82 L(0.01)	15	3	2	.7	1000	N	N	10	700	N	15	150	100	30	L	L	50	15	20	300	200	30	300	70	Altered zone						
84 L(0.01)	10	3	3	1	700	L	N	10	1000	1.5	7	150	100	70	L	L	15	20	30	700	200	30	L	100	" "						
88 L(0.01)	7	1.5	1.5	.3	700	N	N	L	1500	L	15	70	150	150	L	L	30	30	15	300	150	30	L	100	Iron-stained gneiss						
89 L(0.01)	.3	.03	.3	.01	150	L	L	N	100	L	L	L	5	L	N	L	L	15	L	L	L	15	L	N	20	Alaska					
90 L(0.01)	15	5	7	1	3000	L	N	20	500	L	30	70	150	L	L	L	30	L	50	500	200	30	L	30	Chip sample at 1/2 foot intervals						
92 L(0.01)	15	3	3	.7	1000	N	N	10	1500	N	15	30	150	L	10	L	20	L	20	300	150	20	L	200	300	300	300	15	200	10	Altered zone
94 L(0.01)	15	3	7	1	700	N	L	10	L	N	50	7	500	L	L	L	15	L	30	300	300	15	200	10	Gneiss						
96 L(0.01)	15	3	3	.7	700	N	N	30	700	L	15	100	150	20	L	L	70	10	20	300	200	20	L	150	Altered zone						
98 .01	15	.07	.07	.1	150	N	L	N	150	1.5	7	5	5	30	N	10	L	15	L	L	20	30	L	100	C-foot element sample - altered ss						
99 .01	3	.7	.7	.15	300	N	L	N	300	1.5	7	15	100	30	N	10	15	15	7	L	30	50	L	150	" "						
100 L(0.01)	3	.07	.07	.1	30	N	L	N	150	1.5	L	15	7	L	L	10	7	20	L	L	15	70	N	150	" "						
101 L(0.01)	15	3	5	.5	700	.7	N	L	100	N	10	500	150	N	15	L	100	L	50	300	300	15	L	50	" "						
102 L(0.01)	10	3	5	.2	700	N	N	10	150	N	15	150	150	L	7	L	70	L	30	500	200	30	L	70	Altered zone						
103A L(0.01)	5	3	5	.2	500	L	N	10	200	N	7	150	100	L	10	L	50	10	30	500	150	20	L	70	" "						
103B L(0.01)	10	3	3	.5	700	N	N	10	150	N	7	150	70	N	L	L	50	L	30	300	200	15	L	50	" "						
103C L(0.01)	5	3	2	.2	700	L	N	L	50	N	20	500	30	N	L	L	150	L	30	200	150	15	L	30	" "						
104 L(0.01)	5	.2	2	.2	300	N	L	15	500	N	10	50	50	N	70	L	20	N	20	300	150	15	L	30	" "						
105 L(0.01)	10	3	2	.3	500	L	N	L	L	N	100	150	200	L	L	L	70	N	30	200	150	20	L	50	" "						
110 L(0.01)	5	3	3	.2	200	.5	L	N	700	N	7	200	100	20	L	L	30	L	20	500	100	15	L	70	Altered granodiorite						
120 L(0.01)	7	3	2	.5	700	N	N	15	700	L	10	100	30	20	N	L	30	10	20	300	150	20	L	150	Altered zone						
122 L(0.01)	10	5	7	.7	1500	N	N	N	L	N	20	150	150	L	N	L	50	L	50	L	200	30	200	70	Sulfide-bearing amphibolite						
123 L(0.01)	5	1.5	2	.5	700	N	N	30	500	1	10	30	30	30	N	L	30	30	15	500	150	15	N	200	Sandstone						
124 L(0.01)	3	1	1.5	.2	700	N	L	N	700	L	L	N	15	50	N	L	L	15	7	300	30	L	N	70	Altered granodiorite						
126 L(0.01)	15	1.5	3	.3	3000	.7	N	10	1000	1.5	10	150	200	50	10	10	70	15	15	500	200	30	L	200	Altered fault zone, chip sample						
127 L(0.01)	10	2	1.5	.5	5000	N	N	500	3000	1	15	70	150	20	.5	L	70	10	15	L	150	20	L	150	" "						
128 L(0.01)	15	3	5	.7	1500	N	N	N	200	N	50	150	300	N	L	L	50	L	50	300	500	15	L	70	" "						
129 L(0.01)	7	3	3	.7	1000	N	N	N	1500	N	20	150	30	30	L	10	70	30	30	500	150	30	L	70	Granulite						
130 L(0.01)	7	1.5	2	.5	700	.7	N	L	1000	1.5	7	70	50	20	30	15	30	20	15	300	150	10	L	150	Altered zone & coal under						
131 L(0.01)	.5	.03	1.5	L	200	N	N	20	1500	N	N	N	7	N	N	L	L	20	N	150	10	N	N	L	chip sample						
132 L(0.01)	10	3	1.5	L	1000	N	N	30	700	L	N	100	50	20	L	10	30	15	20	300	150	30	L	150	Altered zone						
134 L(0.01)	15	7	3	.5	1500	L	N	N	70	N	500	200	150	L	L	10	100	L	50	L	200	30	L	70	Altered zone						
135 L(0.01)	20	5	7	1	3000	N	N	N	150	N	50	150	150	L	L	10	50	L	70	100	500	50	L	150	" "						
137 L(0.01)	7	3	3	G(1)	1000	N	N	30	1500	1	15	100	150	L	7	20	50	15	20	200	150	20	L	100	" "						
139 L(0.01)	3	.7	.7	.7	200	N	N	N	700	L	7	N	10	L	5	L	L	L	15	100	30	20	N	100	" "						
139 L(0.01)	7	3	3	.3	1000	N	N	L	150	N																					