

Table 1.--Semi-quantitative spectrographic analyses and gold, arsenic, mercury, and zinc analyses of minus 80 mesh fraction from stream sediment samples in the eastern part of the Iliamna quadrangle, Alaska.

(Spectrographic results are reported in parts per million to the nearest number in the series 0.5, 1, 3, 5, 7, 10, 15, 20, 30, 50, 70, 100, and 150, etc. which represent approximate midpoints of interval data on a geometric scale. The assigned interval for 6 step results will include more accurately determined values about 30 percent of the time; Ca, Fe, Mg reported in percent and converted to parts per million).

Symbols used: < = less than; > = greater than; --- = not determined

The following elements were looked for but not found (limit of detectability in ppm for each element in parenthesis): Bi(10), Cd(10), Sb(100), Sn(10), W(50)

Gold analyzed by atomic absorption; analyses by Elizabeth Martinez, R. L. Miller, T. A. Roemer, J. G. Frisken

Arsenic analyzed by colorimetric methods; analyses by T. G. Ging, Jr., and R. F. Hansen

Mercury analyzed by ultraviolet mercury detector; analyses by J. G. Frisken and V. M. James

Zinc values of less than 200 ppm determined by colorimetric methods; G. W. Dounay, analyst; zinc values 200 ppm or greater determined by semi-quantitative spectrographic analyses

Localities and sample locations shown in figures 1, 2, 3, 4, and 5. Data on localities and samples given in Table 3.

Locality	Sample No	Field No 66A-	Ca	Fe	Mg	Ag	As	Au	B	Ba	Be	Co	Cr	Cu	Ga	Hg	La	Mn	Mo	Ni	Pb		Sc	Sr	Tl	V	Y	Zn	Zr
2	128	R1262	10,000	200,000	5,000	<.5	20	<.1	410	700	<.1	15	100	20	50	0.02	20	1,500	2	10	10		10	500	7,000	500	20	<.50	500
2	129 ^U	R1263	10,000	720,000	10,000	4.5	4.10	—	70	20	<.1	50	700	10	7100	0.08	<.20	2,000	<.2	5	<.10		10	<.50	71,000	1,000	<.5	<.50	1,000
2	130 ^U	R1264	20,000	150,000	10,000	3	10	—	10	150	2	20	1,500	30	20	0.11	2,000	5,000	<.2	150	20		70	150	70,000	200	200	<.50	71,000
2	131	R1265	15,000	70,000	10,000	<.5	<.10	<.1	<.10	700	<.1	<.5	70	20	30	0.02	<.20	1,500	<.2	10	30		10	700	5,000	200	15	200	100
2	132	R1267	15,000	50,000	10,000	<.5	10	<.1	<.10	700	<.1	<.5	200	30	30	0.02	<.20	1,500	<.2	20	20		10	700	5,000	100	15	100	100
2	133	R1268	20,000	100,000	70,000	<.5	20	—	20	500	<.1	15	2,000	30	30	0.05	<.20	1,500	<.2	150	<.10		20	700	5,000	200	20	50	200
2	134	R1269	50,000	50,000	50,000	<.5	<.10	<.1	20	500	<.1	15	1,500	70	30	0.01	<.20	1,500	<.2	150	<.10		20	1,000	5,000	100	15	100	150
2	135 ^U	R1270	10,000	720,000	10,000	1	4.10	<.1	100	20	<.1	50	200	10	>100	0.05	<.20	5,000	<.2	10	<.10		10	<.50	71,000	700	50	<.50	1,000
2	136	R1273	20,000	50,000	10,000	<.5	<.10	<.1	<.10	500	3	<.5	50	15	30	<0.005	<.20	1,500	<.2	10	<.10		10	500	5,000	200	15	200	100
2	137	R1272	50,000	70,000	70,000	<.5	10	<.1	30	500	<.1	20	5,000	70	20	0.01	<.20	1,500	<.2	200	10		20	1,000	5,000	200	20	100	200
2	138	H4	20,000	100,000	5,000	<.5	<.10	<.1	<.10	700	<.1	<.5	50	15	30	0.16	<.20	1,000	<.2	<.2	10		10	300	3,000	700	10	200	300
2	139 ^U	H4	10,000	720,000	5,000	<.5	<.10	<.1	70	20	<.1	70	150	10	>100	0.02	<.20	2,000	<.2	<.2	<.10		20	<.50	71,000	1,000	100	<.50	1,000
2	140	H12	15,000	50,000	7,000	<.5	10	<.1	10	100	1	<.5	20	10	30	0.04	<.20	1,000	<.2	<.2	50		<.5	500	3,000	200	10	200	100
2	141	H11	15,000	50,000	5,000	<.5	<.10	<.1	<.10	1000	<.1	<.5	10	15	30	0.01	<.20	1,000	<.2	<.2	10		<.5	500	3,000	70	10	100	70
2	142	H10	10,000	30,000	2,000	<.5	<.10	<.1	<.10	700	1	<.5	10	<.2	20	0.01	<.20	1,000	<.2	<.2	10		<.5	500	3,000	50	10	100	50
2	143	H9	15,000	70,000	5,000	<.5	20	<.1	<.10	1000	1	<.5	20	20	30	0.02	<.20	1,500	<.2	<.2	15		10	500	3,000	300	10	100	300
2	144	HB	20,000	70,000	10,000	<.5	<.10	<.1	<.10	500	<.1	<.5	70	15	30	0.04	<.20	1,500	<.2	2	<.10		10	500	3,000	500	15	100	300
2	145	HT	15,000	70,000	5,000	<.5	<.10	<.1	10	1000	4	<.5	50	20	30	0.06	<.20	1,000	<.2	<.2	10		5	700	7,000	500	10	150	150
2	146	H6	50,000	100,000	10,000	<.5	20	—	50	700	<.1	5	100	30	30	0.1	<.20	2,000	<.2	10	<.10		30	200	10,000	700	15	250	100
3	147	R1291	50,000	70,000	50,000	<.5	10	<.1	50	100	<.1	70	300	70	50	0.02	<.20	1,500	<.2	150	<.10		70	150	10,000	500	20	<.50	20
3	148	R1290	20,000	50,000	20,000	<.5	10	<.1	20	100	<.1	15	150	200	30	0.2	<.20	1,000	<.2	150	<.10		50	50	5,000	200	20	50	50
3	149	R1384	50,000	70,000	30,000	<.5	<.10	<.1	20	150	<.1	30	200	200	15	0.1	<.20	1,500	<.2	150	<.10		30	100	3,000	200	20	<.50	50
3	150	R1386	20,000	70,000	20,000	<.5	<.10	<.1	50	150	<.1	20	150	200	10	0.14	<.20	1,000	<.2	100	<.10		20	100	3,000	200	20	50	100
3	151	R1388	50,000	70,000	30,000	<.5	<.10	<.1	50	150	<.1	30	200	300	20	0.13	<.20	1,000	<.2	100	<.10		30	150	3,000	200	20	50	100
3	152	R1390	20,000	50,000	10,000	<.5	<.10	<.1	10	150	<.1	10	50	50	10	0.26	<.20	1,000	<.2	15	<.10		15	100	5,000	50	20	<.50	100
3	153 ^U	R1391	20,000	720,000	10,000	<.5	10	9.3	50	50	<.1	150	2,000	100	70	0.05	<.20	2,000	<.2	100	<.10		50	100	70,000	1,000	20	100	200
3	154	R1392	50,000	70,000	20,000	<.5	<.10	<.1	30	200	<.1	30	300	200	20	0.09	<.20	1,500	5	150	<.10		30	200	5,000	300	20	<.50	150
4	155	R1411	15,000	70,000	10,000	<.5	<.10	<.1	<.10	100	<.1	10	20	30	30	0.04	<.20	1,000	<.2	5	<.10		20	150	5,000	200	10	<.50	50
4	156	R1409	20,000	100,000	20,000	<.5	<.10	<.1	<.10	150	<.1	15	30	70	30	0.04	<.20	1,500	<.2	5	<.10		20	150	5,000	200	20	50	100
4	157 ^U	R1408	5,000	720,000	2,000	<.5	<.10	—	50	70	<.1	<.5	500	10	100	0.22	<.20	5,000	<.2	<.2	<.10		30	50	71,000	1,000	45	100	300
4	158	R1406	20,000	100,000	20,000	<.5	<.10	<.1	<.10	150	<.1	10	30	50	30	0.03	<.20	1,500	<.2	5	<.10		20	150	5,000	200	20	50	150
5	159	S85	50,000	100,000	10,000	<.5	<.10	<.1	50	200	<.1	10	50	30	20	0.07	<.20	2,000	<.2	<.2	<.10		20	300	10,000	300	15	<.50	200
5	160	S84	20,000	70,000	20,000	<.5	<.10	<.1	100	200	<.1	15	30	50	20	0.11	<.20	2,000	<.2	<.2	<.10		20	300	7,000	200	15	<.50	200
5	161	S83	20,000	50,000	10,000	<.5	<.10	<.1	20	200	<.1	<.5	20	20	20	0.25	20	2,000	<.2	<.2	<.10		15	150	3,000	100	20	<.50	150
5	162	S82	20,000	20,000	10,000	<.5	<.10	<.1	10	200	1	<.5	20	10	15	0.02	20	1,500	<.2	<.2	<.10		10	100	3,000	100	15	<.50	100
6	163	S81	7000	20,000	10,000	<.5	60	<.1	20	200	<.1	<.5	30	70	10	0.07	<.20	150	15	<.2	<.10		15	100	5,000	200	5	<.50	200
6	164	S80	10,000	50,000	20,000	<.5	60	<.1	100	200	<.1	<.5	30	200	20	0.13	<.20	500	20	<.2	10		10	100	5,000	150	10	<.50	150
6	165	D1309	10,000	30,000	10,000	<.5	40	<.1	50	300	<.1	<.5	70	150	15	0.02	<.20	500	20	2	10		10	150	10,000	200	15	<.50	100
6	166 ^U	D1309d	500	15,000	5,000	<.5	20	<.1	20	500	<.1	<.5	70	50	10	0.04	<.20	50	15	<.2	<.10		15	150	7,000	200	20	<.50	300
6	167 ^U	S75	5,000	50,000	10,000	<.5	20	<.1	70	200	<.1	<.5	20	150	10	0.06	<.20	200	10	<.2	<.10		15	100	5,000	200	10	<.50	200
6	168	S73	15,000	50,000	10,000	<.5	<.10	<.1	15	1																			