UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Analytical results and sample locality map for stream-sediment and heavy-mineral-concentrate samples collected in 1983 and 1984 from the Juneau, Taku River, Atlin, and Skagway quadrangles, Alaska

by

Elizabeth A. Bailey, Belinda F. Arbogast, Suzanne M. Smaglik,

and Thomas D. Light

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STUDIES RELATED TO AMRAP

The U.S. Geological Survey is required by the Alaskan National Interest Lands Conservation Act (ANILCA, Public Law 96-487) to survey certain Federal lands to determine their mineral resource potential. Results from the Alaskan Mineral Resource Appraisal Program (AMRAP) must be made available to the public and be submitted to the President and the Congress. This report presents analytical results of a geochemical survey of portions of the Juneau, Taku River, Atlin, and Skagway quadrangles, Alaska.

INTRODUCTION

During the summers of 1983 and 1984 the U.S. Geological Survey conducted a reconnaissance geochemical survey of portions of the Juneau, Taku River, Atlin, and Skagway 1:250,000-scale quadrangles, southeast Alaska (fig. 1). This area comprises approximately 7,500 sq mi in the northern portion of southeast Alaska. Elevations in the area range from sea level to almost 8,600 ft. Topography varies from rugged mountains and fiords to ice fields and glacial valleys. Approximately 20% of the area consists of channels and straits of the inland waterway. Juneau, the capital city of Alaska, lies in the south-central portion of the study area, and is a major port for water and air traffic in southeast Alaska. Haines, Alaska, which lies near the northern boundary of the study area in the Skagway quadrangle, is a terminus for both the Alaska Marine Highway and the Haines Highway. Very few roads exist throughout the quadrangles and access to most areas is limited to helicopter, float plane, or boat.

Portions of this study area that have been previously sampled and evaluated include the northern end of the Tracy Arm-Fords Terror Wilderness Study Area (Brew and others, 1977; U.S. Geological Survey and U.S. Bureau of Mines, 1984), the eastern Glacier Bay National Monument (MacKevett and others, 1971; Brew and others, 1978), and northern Chichagof Island (Loney and others, 1975). Where possible, data from these and other previous and on-going studies in the area will be used, along with the data presented here, for a reconnaissance geochemical interpretation. Although additional sampling is anticipated during the summer of 1985, these data are being presented in response to the greatly renewed interest in mineral exploration in the Juneau area.

The eastern half of the study area, east of Lynn Canal, comprises the northern Coast plutonic-metamorphic complex, which includes the granitic and gneissic rocks of the Coast Mountains as well as adjacent metamorphic rocks (Brew and Ford, 1984a). Metamorphic rocks within the Coast plutonic-metamorphic complex have been determined to represent the metamorphosed equivalent of rocks in the Alexander terrane (Brew and Ford, 1984b). The Alexander terrane throughout the remainder of the study area is composed of a thick sequence of late Precambrian to Triassic volcanic and sedimentary rocks (Monger and Berg, 1984) which in places are moderately to intensely deformed and metamorphosed. Major structural features in the Juneau quadrangle include the Chatham Strait Fault and the Coast Range Megalineament (plate 1).

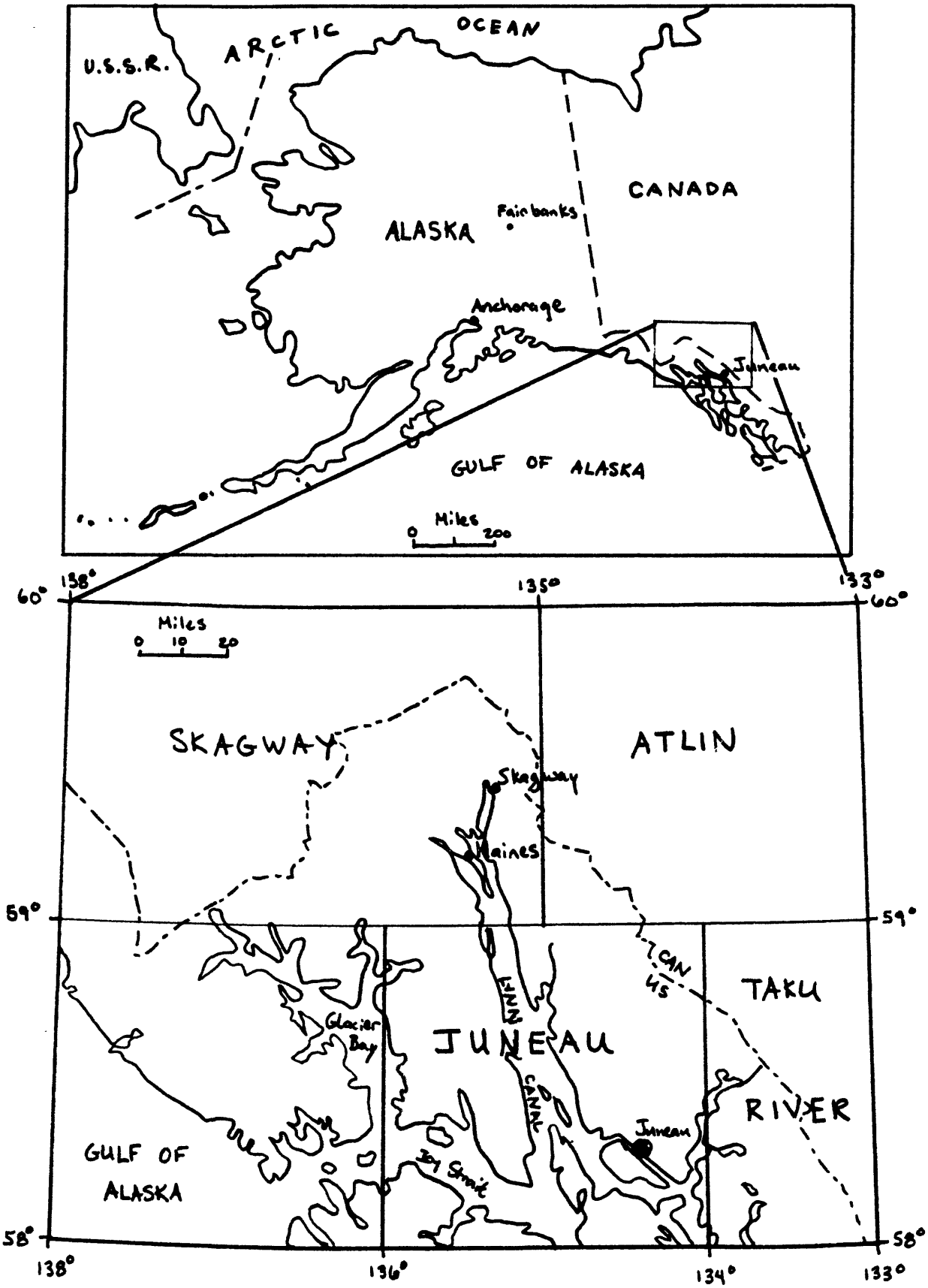

Figure 1.--Index map showing location of the Juneau, Taku River, Atlin, and Skagway quadrangles, Alaska.

METHODS OF STUDY

Sample Media

Analyses of the stream-sediment samples represent the chemistry of the rock material eroded from the drainage basin upstream from each sample site. Such information is useful in identifying those basins which contain concentrations of elements that may be related to mineral deposits. Heavy-mineral-concentrate samples provide information about the chemistry of a limited number of minerals in rock material eroded from the drainage basin upstream from each sample site. The selective concentration of minerals, many of which are ore-related, permits determination of some elements that are not easily detected in stream-sediment samples.

Where stream sediments were not available due to glacial ice cover in the drainage basin, a glacial-debris sample was collected. The sample consists of detrital material that has been mechanically introduced into a moraine from the bedrock and colluvium. Like the stream sediment, the glacial debris represents the chemistry of the rock material eroded from the drainage basin of the glacier.

Sample Collection

Stream-sediment samples were collected from first- and second-order stream drainages at 630 sites (plate 1). At nearly all of these sites a heavy-mineral-concentrate sample was collected also. Sampling in 1983 and 1984 was concentrated in areas that were not sampled during previous studies, or where prior sample coverage was sparse.

Stream-sediment samples

The stream-sediment samples consisted of active alluvium collected primarily from first-order (unbranched) and second-order (below the junction of two first-order) streams as shown on USGS topographic maps (scale = 1:63,360).

Heavy-mineral-concentrate samples

Heavy-mineral-concentrate samples were panned from the same active alluvium as the stream-sediment samples. Each bulk sample was passed through a 2.0-mm (10-mesh) screen to remove the coarse material. The sediment passing through the screen was panned until most of the quartz, feldspar, organic material, and clay-sized material was removed.

Sample Preparation

The stream-sediment samples were sieved at the collection site through a 10-mesh screen and the minus-10-mesh material was retained. The samples were oven dried and sieved at 80-mesh (0.18 mm) using stainless steel sieves. The portion of the sediment passing through the sieve was saved for analysis.

The heavy-mineral-concentrate samples were preliminarily prepared in the field by panning the minus-10-mesh fraction of the stream sediment to remove the bulk of the light minerals. The panned samples were sieved through a 35-mesh (0.42 mm) screen in the laboratory and the minus-35-mesh fraction was further separated with bromoform (specific gravity 2.86) to remove the

remaining light minerals. The heavy minerals were separated into three fractions using a large electromagnet (in this case a modified Frantz Isodynamic Separator). The most magnetic material (largely magnetite) was discarded. The second fraction (largely ferromagnesian silicates and iron oxides) was saved for archival storage. The third fraction (the least magnetic material including nonmagnetic ore minerals, zircon, sphene, etc.) was divided into two splits using a Jones splitter. One split was hand ground for spectrographic analysis; the other split was saved for mineralogical analysis.

The magnetic separates discussed are the same separates that would be produced by removing the magnetite with a hand magnet and then using a Frantz Isodynamic Separator set at a slope of 5° and a tilt of 10° with a current of 0.1 ampere to remove the ilmenite, and a current of 0.6 ampere to split the remainder of the sample into magnetic and nonmagnetic fractions.

Sample Analysis

Spectrographic Method

The stream-sediment and heavy-mineral-concentrate samples were analyzed for 31 elements using a semiquantitative, direct-current arc emission spectrographic method (Grimes and Marranzino, 1968). The elements analyzed and their lower limits of determination are listed in Table 1. Spectrographic results were obtained by visual comparison of spectra derived from the sample against spectra obtained from standards made from pure oxides and carbonates. Standard concentrations are geometrically spaced over any given order of magnitude of concentration as follows: 100, 50, 20, 10, and so forth. Samples whose concentrations are estimated to fall between those values are assigned values of 70, 30, 15, and so forth. The precision of the analytical method is approximately plus or minus one reporting interval at the 83 percent confidence level and plus or minus two reporting intervals at the 96 percent confidence level (Motooka and Grimes, 1976). Values determined for the major elements (iron, magnesium, calcium, and titanium) are given in weight percent; all others are given in parts per million (micrograms/gram). Analytical data for samples from the study area collected in 1983 and 1984 are listed in Tables 3 and 4.

Chemical Methods

Other methods of analysis used on stream-sediment samples from the Juneau, Taku River, Atlin, and Skagway quadrangles are listed in Table 2.

ROCK ANALYSIS STORAGE SYSTEM

Upon completion of all analytical work, the analytical results were entered into a computer-based file called Rock Analysis Storage System (RASS). This data base contains both descriptive geological information and analytical data. Any or all of this information may be retrieved and converted to a binary form (STATPAC) for computerized statistical analysis or publication (VanTrump and Miesch, 1976).

DESCRIPTION OF DATA TABLES

Tables 3 and 4 list the analyses for the samples of stream sediment and heavy-mineral concentrate, respectively. For these tables, the data are arranged so that column 1 contains the USGS-assigned sample numbers. Only the last three digits of the sample numbers given in the tables are shown on the site location map (plate 1). Columns in which the element headings show the letter "s" below the element symbol are emission spectrographic analyses; "aa" indicates atomic absorption analyses. A letter "N" in the tables indicates that a given element was looked for but not detected at the lower limit of determination shown for that element in Table 1. If an element was observed but was below the lowest reporting value, a "less than" symbol (<) was entered in the tables in front of the lower limit of determination. If an element was observed but was above the highest reporting value, a "greater than" symbol (>) was entered in the tables in front of the upper limit of determination. If an element was not looked for in a sample, two dashes (--) are entered in tables 3 and 4 in place of an analytical value. Because of the formatting used in the computer program that produced tables 3 and 4, some of the elements listed in these tables (Fe, Mg, Ca, Ti, Ag, and Be) carry one or more nonsignificant digits to the right of the significant digits. The analysts did not determine these elements to the accuracy suggested by the extra zeros.

Table 1.--Limits of determination for the spectrographic analysis of rocks and stream sediments, based on a 10-mg sample

[The spectrographic limits of determination for heavy-mineral-concentrate samples are based on a 5-mg sample, and are therefore two reporting intervals higher than the limits given for rocks and stream sediments]

Elements	Lower determination limit	Upper determination limit
	Percent	
Iron (Fe)	0.05	20
Magnesium (Mg)	.02	10
Calcium (Ca)	.05	20
Titanium (Ti)	.002	1
	Parts per million	
Manganese (Mn)	10	5,000
Silver (Ag)	0.5	5,000
Arsenic (As)	200	10,000
Gold (Au)	10	500
Boron (B)	10	2,000
Barium (Ba)	20	5,000
Beryllium (Be)	1	1,000
Bismuth (Bi)	10	1,000
Cadmium (Ca)	20	500
Cobalt (Co)	5	2,000
Chromium (Cr)	10	5,000
Copper (Cu)	5	20,000
Lanthanum (La)	20	1,000
Molybdenum (Mo)	5	2,000
Niobium (Nb)	20	2,000
Nickel (Ni)	5	5,000
Lead (Pb)	10	20,000
Antimony (Sb)	100	10,000
Scandium (Sc)	5	100
Tin (Sn)	10	1,000
Strontium (Sr)	100	5,000
Vanadium (V)	10	10,000
Tungsten (W)	50	10,000
Yttrium (Y)	10	2,000
Zinc (Zn)	200	10,000
Zirconium (Zr)	10	1,000
Thorium (Th)	100	2,000

Table 2.--Chemical methods used

[AA = atomic absorption; I = instrumental]

Element or constituent determined	Method	Determination limit (micrograms/gram or ppm)	Reference
Gold (Au)	AA	0.05	Thompson and others, 1968.
Mercury (Hg)	I	0.02	Modification of McNerney and others, 1972, and Vaughn and McCarthy, 1964.
Arsenic (As)	AA	5 or 10	Modification of Viets, 1978.
Antimony (Sb)	AA	2	
Zinc (Zn)	AA	5	
Bismuth (Bi)	AA	1	
Cadmium (Cd)	AA	0.1	

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TABLE 3.--Spectrographic and chemical analyses of stream sediments from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.

[N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown.]

Sample	Latitude	Longitude	Fe-pct.	Mg-pct.	Ca-pct.	Ti-pct.	Mn-ppm	Ag-ppm	As-ppm	Au-ppm	B-ppm	Ba-ppm	Be-ppm
			s	s	s	s	s	s	s	s	s	s	s
JA0003S	58 18 30	134 20 30	10.0	7.00	.70	1.00	1,000	N	N	N	20	300	<1.0
JA0004TL	58 18 23	134 20 8	15.0	.20	.05	.50	200	100.0	3,000	N	100	1,000	<1.0
JA0005S	58 18 31	134 20 10	7.0	3.00	.70	.70	1,000	N	N	N	20	1,500	1.5
JA0007S	58 18 55	134 20 58	7.0	3.00	1.00	.70	1,000	N	N	N	50	1,500	2.0
JA0011S	58 18 57	134 22 12	7.0	2.00	.70	.50	1,000	N	N	N	50	1,500	2.0
JA0014TL	58 16 0	134 22 13	10.0	.10	.10	.50	100	15.0	N	N	100	>5,000	N
JA0017TF	58 17 16	134 23 0	7.0	2.00	1.00	.50	1,000	2.0	N	N	70	5,000	1.0
JA0017TL	58 17 16	134 23 0	5.0	2.00	.50	.50	1,000	1.0	N	N	50	2,000	1.0
JA0019	58 30 8	134 59 41	10.0	2.00	2.00	.50	3,000	N	N	N	20	500	<1.0
JA0020	58 23 3	134 55 3	5.0	2.00	2.00	.50	5,000	N	N	N	50	1,000	1.0
JA0021	58 22 20	134 55 5	7.0	2.00	2.00	.70	>5,000	N	N	N	30	1,000	1.0
JA0022	58 20 0	134 54 0	7.0	3.00	2.00	.70	>5,000	N	N	N	20	1,000	1.0
JA0023	58 19 14	134 53 8	5.0	2.00	2.00	.50	2,000	N	N	N	20	1,000	1.0
JA0024	58 19 15	134 53 18	5.0	2.00	2.00	.70	3,000	N	N	N	30	700	1.0
JA0025	58 19 10	134 52 30	5.0	2.00	2.00	.70	3,000	<.5	N	N	15	700	1.0
JA0026	58 20 25	134 51 15	3.0	2.00	2.00	.50	2,000	N	N	N	50	1,000	1.0
JA0027	58 17 43	134 48 12	5.0	2.00	2.00	.70	3,000	N	N	N	10	1,000	<1.0
JA0028	58 17 39	134 48 3	5.0	2.00	2.00	.50	2,000	N	N	N	15	700	<1.0
JA0029	58 17 37	134 47 56	5.0	2.00	2.00	.70	3,000	N	N	N	20	1,000	1.0
JA0030	58 15 48	134 45 18	7.0	2.00	2.00	.50	5,000	N	N	N	70	1,000	1.0
JA0031	58 15 22	134 44 59	5.0	1.50	1.50	.50	3,000	N	N	N	30	1,000	1.0
JA0032	58 15 11	134 44 58	5.0	1.50	1.50	.50	3,000	N	N	N	50	1,000	1.0
JA0033	58 13 37	134 42 38	7.0	1.50	1.50	.50	2,000	N	N	N	50	700	<1.0
JA0034	58 11 35	134 44 29	5.0	2.00	2.00	.50	1,500	N	N	N	20	2,000	1.0
JA0035	58 11 20	134 45 4	5.0	2.00	2.00	.50	1,500	N	N	N	30	2,000	<1.0
JA0036	58 10 9	134 46 15	7.0	1.50	.50	.70	3,000	1.5	N	N	70	5,000	2.0
JA0038	58 8 12	134 46 24	7.0	2.00	1.00	.70	5,000	<.5	N	N	70	5,000	2.0
JA0039	58 12 3	134 53 57	7.0	2.00	1.00	.50	>5,000	N	N	N	15	1,500	1.5
JA0040	58 12 0	134 53 55	5.0	2.00	1.50	.50	3,000	N	N	N	15	700	1.0
JA0041	58 14 49	134 52 46	7.0	2.00	1.50	.70	1,000	N	N	N	10	1,000	<1.0
JA0043	58 17 35	134 40 15	5.0	2.00	1.00	.50	1,000	N	N	N	30	500	N
JA0044	58 19 10	134 38 35	7.0	2.00	.50	.50	2,000	N	N	N	50	500	<1.0
JA0045	58 19 20	134 37 0	7.0	2.00	1.50	.70	5,000	N	N	N	70	700	1.0
JA0046	58 19 50	134 35 35	7.0	3.00	5.00	.50	2,000	N	N	N	70	200	N
JA0047	58 20 10	134 34 35	5.0	2.00	2.00	.50	2,000	N	N	N	50	1,500	1.0
JA0048	58 20 20	134 32 50	3.0	2.00	1.00	.30	1,500	N	N	N	20	1,000	<1.0
JA0049	58 20 30	134 31 30	5.0	2.00	1.50	.50	2,000	N	N	N	50	1,000	<1.0
JA0050	58 20 10	134 52 21	7.0	3.00	3.00	.70	3,000	N	N	N	10	1,500	<1.0
JA0051	58 18 20	134 48 8	5.0	2.00	3.00	.70	2,000	N	N	N	15	1,500	1.0
JA0052	58 15 27	134 48 45	7.0	3.00	5.00	.70	2,000	<.5	N	N	15	2,000	1.0
JA0053	58 15 27	134 48 27	5.0	2.00	2.00	.50	1,500	N	N	N	30	2,000	<1.0
JA0054	58 16 8	134 49 34	7.0	3.00	2.00	.70	5,000	N	N	N	20	1,500	1.0
JA0055	58 16 47	134 46 59	10.0	3.00	2.00	.70	2,000	N	N	N	30	1,500	1.0
JA0056	58 13 50	134 43 28	7.0	2.00	2.00	.70	3,000	N	N	N	30	1,500	1.0
JA0057	58 14 12	134 44 5	10.0	2.00	1.00	.50	>5,000	N	N	N	20	1,500	1.0

TABLE 3.--Spectrographic and chemical analyses of stream sediments from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s
JA0003S	N	N	100	300	100	N	N	N	100	70	N	50	N	200
JA0004TL	N	100	100	50	500	500	N	<20	100	20,000	100	10	N	N
JA0005S	N	N	50	200	100	<20	N	N	50	50	N	30	N	300
JA0007S	N	N	50	200	100	N	N	N	50	50	N	30	N	500
JA0011S	N	N	50	200	100	100	N	N	50	70	N	30	N	500
JA0014TL	N	N	300	50	1,500	N	50	N	100	500	N	<5	N	>5,000
JA0017TF	N	N	50	300	150	N	<5	N	100	700	N	50	N	200
JA0017TL	N	N	50	150	200	N	N	N	50	300	N	20	N	200
JA0019	N	N	70	300	15	N	N	N	20	20	N	50	N	500
JA0020	N	N	50	200	15	N	N	N	20	20	N	30	N	700
JA0021	N	N	70	150	10	N	N	N	15	30	N	30	N	500
JA0022	N	N	100	200	15	N	N	N	50	50	N	50	N	500
JA0023	N	N	30	200	15	N	10	N	20	20	N	30	N	700
JA0024	N	N	30	500	5	N	N	N	50	20	N	30	N	700
JA0025	N	N	50	200	20	N	N	N	20	15	N	50	N	1,000
JA0026	N	N	20	1,000	<5	N	N	N	15	15	N	50	N	700
JA0027	N	N	50	200	50	N	N	N	50	15	N	50	N	500
JA0028	N	N	30	300	15	N	N	N	50	15	N	30	N	500
JA0029	N	N	50	200	10	N	N	N	50	20	N	50	N	700
JA0030	N	N	50	700	15	N	N	N	70	15	N	30	N	700
JA0031	N	N	30	300	30	N	N	N	50	15	N	30	N	500
JA0032	N	N	30	200	20	N	N	N	50	15	N	20	N	500
JA0033	N	N	20	1,500	20	N	N	N	50	15	N	30	N	500
JA0034	N	N	30	200	100	70	N	N	50	20	N	50	N	500
JA0035	N	N	30	200	20	N	N	N	50	20	N	30	N	500
JA0036	N	<20	50	200	50	70	30	N	100	100	N	30	N	150
JA0038	N	N	70	300	20	N	5	N	100	30	N	50	N	200
JA0039	N	N	100	100	20	N	7	N	70	100	N	30	N	300
JA0040	N	N	50	300	10	N	N	N	50	100	N	30	N	500
JA0041	N	N	30	150	15	N	N	N	50	20	N	50	N	500
JA0043	N	N	30	500	20	N	N	N	50	20	N	30	N	500
JA0044	N	N	50	150	50	N	N	N	70	20	N	30	N	300
JA0045	N	N	50	500	50	N	N	N	70	20	N	50	N	500
JA0046	N	N	50	700	20	N	N	N	70	15	N	70	N	700
JA0047	N	N	30	500	10	50	N	N	50	20	N	30	N	700
JA0048	N	N	20	200	20	N	N	N	50	20	N	20	N	500
JA0049	N	N	30	300	15	N	N	N	50	15	N	20	N	500
JA0050	N	N	50	300	50	N	N	N	70	15	N	50	N	500
JA0051	N	N	30	500	20	N	N	N	70	15	N	30	N	700
JA0052	N	N	30	200	30	20	N	N	50	20	N	50	N	1,000
JA0053	N	N	20	300	10	20	N	N	30	20	N	50	N	1,000
JA0054	N	N	70	200	5	N	N	N	30	20	N	50	N	700
JA0055	N	N	50	300	30	200	N	N	50	20	N	50	N	700
JA0056	N	N	30	700	30	100	N	N	50	20	N	50	N	700
JA0057	N	N	150	100	20	N	<5	N	50	50	N	30	N	300

TABLE 3.--Spectrographic and chemical analyses of stream sediments from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	Hg-ppm inst	Te-ppm aa	As-ppm aa	Zn-ppm aa	Cd-ppm aa	Bi-ppm aa	Sb-ppm aa
JA0003S	200	N	50	<200	100	N	--	--	--	--	--	--	--	--
JA0004TL	100	N	100	5,000	300	N	20.00	.10	1.0	1,900	--	--	--	--
JA0005S	200	N	50	200	150	N	--	--	--	--	--	--	--	--
JA0007S	200	N	50	<200	150	N	--	--	--	--	--	--	--	--
JA0011S	200	N	50	200	200	N	--	--	--	--	--	--	--	--
JA0014TL	200	N	70	<200	700	N	5.50	>10.00	3.9	90	--	--	--	--
JA0017TF	300	N	50	500	150	N	.25	.48	N	30	--	--	--	--
JA0017TL	200	N	30	500	150	N	1.50	1.10	.1	70	--	--	--	--
JA0019	300	N	30	N	50	N	--	--	--	N	40	.1	N	N
JA0020	200	N	50	N	100	N	--	--	--	10	35	N	N	N
JA0021	200	N	50	N	1,000	N	--	--	--	50	55	.2	N	N
JA0022	200	N	50	N	70	N	--	--	--	20	55	.2	N	N
JA0023	200	N	50	N	100	N	--	--	--	10	35	N	N	N
JA0024	200	N	50	N	100	N	--	--	--	10	30	N	N	N
JA0025	200	N	50	N	70	N	--	--	--	N	35	.1	N	N
JA0026	200	N	50	N	1,000	N	--	--	--	N	25	N	N	N
JA0027	200	N	50	N	100	N	--	--	--	N	50	.1	N	N
JA0028	200	N	30	N	150	N	--	--	--	N	35	.1	N	N
JA0029	200	N	50	N	150	N	--	--	--	N	35	N	N	N
JA0030	200	N	50	N	150	N	--	--	--	10	45	.1	N	N
JA0031	200	N	50	N	150	N	--	--	--	10	55	.2	N	N
JA0032	200	N	50	N	100	N	--	--	--	20	55	.1	N	N
JA0033	200	N	50	N	50	N	--	--	--	10	55	.1	N	N
JA0034	200	N	50	N	150	N	--	--	--	10	110	.7	N	N
JA0035	200	N	30	N	70	N	--	--	--	20	120	.7	N	N
JA0036	500	N	70	1,000	100	N	--	--	--	90	450	5.9	N	10
JA0038	300	N	70	200	150	N	--	--	--	40	190	1.4	N	N
JA0039	200	N	50	200	150	N	--	--	--	20	200	1.4	N	N
JA0040	200	N	50	<200	100	N	--	--	--	10	90	.2	N	N
JA0041	200	N	50	N	100	N	--	--	--	N	75	.3	N	N
JA0043	200	N	20	N	150	N	--	--	--	N	55	N	N	N
JA0044	200	N	30	N	150	N	--	--	--	70	100	.2	N	N
JA0045	200	N	50	N	150	N	--	--	--	40	85	.2	N	N
JA0046	200	N	30	N	50	N	--	--	--	N	50	.1	N	N
JA0047	200	N	30	N	100	N	--	--	--	10	55	.1	N	N
JA0048	150	N	20	N	70	N	--	--	--	10	55	.1	N	N
JA0049	200	N	30	N	100	N	--	--	--	20	55	.1	N	N
JA0050	500	N	50	N	200	N	--	--	--	--	--	--	--	--
JA0051	300	N	50	N	150	N	--	--	--	--	--	--	--	--
JA0052	300	N	50	N	200	N	--	--	--	--	--	--	--	--
JA0053	300	N	50	N	150	N	--	--	--	--	--	--	--	--
JA0054	500	N	30	N	200	N	--	--	--	--	--	--	--	--
JA0055	500	N	50	N	300	N	--	--	--	--	--	--	--	--
JA0056	300	N	50	N	150	N	--	--	--	--	--	--	--	--
JA0057	300	N	50	N	100	N	--	--	--	--	--	--	--	--

TABLE 3.--Spectrographic and chemical analyses of stream sediments from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
JA0058	58 9 23	134 42 24	7.0	2.00	2.00	.50	3,000	<.5	N	N	30	2,000	1.0
JA0059	58 9 28	134 42 29	7.0	2.00	2.00	.70	2,000	N	N	N	50	2,000	1.0
JA0060	58 9 28	134 42 9	7.0	2.00	1.50	.50	2,000	N	N	N	30	1,500	1.0
JA0061	58 10 39	134 45 1	7.0	2.00	1.50	.70	2,000	.7	N	N	50	5,000	1.0
JA0062	58 9 8	134 46 21	10.0	3.00	2.00	1.00	3,000	.5	N	N	20	>5,000	1.0
JA0063	58 6 37	134 46 38	10.0	3.00	2.00	1.00	5,000	N	N	N	20	3,000	1.5
JA0064	58 9 23	134 49 55	10.0	3.00	2.00	1.00	3,000	<.5	N	N	30	5,000	1.5
JA0065	58 14 2	134 53 22	7.0	2.00	1.50	1.00	2,000	N	N	N	20	2,000	1.0
JA0066	58 14 10	134 53 11	7.0	2.00	2.00	1.00	2,000	N	N	N	20	1,500	1.0
JA0067	58 15 38	134 52 42	5.0	3.00	3.00	.70	3,000	N	N	N	10	1,500	1.0
JA0068	58 15 43	134 53 14	5.0	3.00	3.00	.70	3,000	N	N	N	10	700	1.0
JA0069	58 21 2	134 57 24	7.0	2.00	2.00	.70	5,000	N	N	N	15	1,500	1.0
JA0070	58 16 32	134 30 41	7.0	5.00	5.00	.50	3,000	N	N	N	30	200	<1.0
JA0071	58 16 32	134 30 49	7.0	5.00	5.00	.50	2,000	N	N	N	20	150	N
JA0072	58 17 41	134 32 55	7.0	5.00	7.00	.50	2,000	N	N	N	10	100	<1.0
JA0073	58 17 45	134 32 59	7.0	5.00	7.00	.50	3,000	N	N	N	10	150	<1.0
JA0074	58 17 53	134 32 24	7.0	7.00	10.00	.50	3,000	N	N	N	100	200	<1.0
JA0075	58 18 43	134 33 45	5.0	3.00	5.00	.50	3,000	N	N	N	50	300	1.0
JA0076	58 18 47	134 33 49	5.0	1.00	1.50	.50	3,000	N	N	N	70	700	1.0
JA0077	58 19 0	134 33 8	7.0	3.00	7.00	.50	3,000	N	N	N	70	300	<1.0
JA0078	58 9 34	134 40 33	7.0	2.00	1.50	.70	3,000	<.5	N	N	100	2,000	1.5
JA0079	58 9 35	134 40 6	7.0	2.00	1.00	.50	3,000	N	N	N	100	1,500	1.5
JA0080	58 8 45	134 31 10	7.0	2.00	1.00	.50	2,000	N	N	N	100	1,000	1.5
JA0081	58 8 2	134 30 30	7.0	3.00	2.00	.50	2,000	.5	N	N	150	2,000	1.0
JA0082	58 6 58	134 28 3	7.0	3.00	2.00	.70	3,000	<.5	N	N	150	1,500	1.0
JA0083	58 10 31	134 33 18	7.0	3.00	2.00	.70	2,000	N	N	N	100	1,500	1.0
JA0084	58 8 44	134 10 57	7.0	3.00	5.00	.70	2,000	N	N	N	10	500	1.0
JA0085	58 7 25	134 44 57	7.0	2.00	3.00	.70	5,000	N	N	N	20	2,000	1.5
JA0086	58 4 30	134 46 9	5.0	2.00	2.00	.70	1,000	N	N	N	30	1,500	1.0
JA0087	58 0 31	134 44 59	7.0	3.00	3.00	1.00	2,000	N	N	N	30	1,500	1.0
JA0088	58 0 26	134 44 57	7.0	3.00	2.00	1.00	3,000	N	N	N	30	1,000	1.0
JA0089	58 2 19	134 46 56	7.0	2.00	2.00	1.00	2,000	N	N	N	30	1,000	<1.0
JA0090	58 1 32	134 56 23	7.0	2.00	.70	.70	2,000	N	N	N	70	700	1.0
JA0091	58 2 40	134 58 25	7.0	2.00	.70	.50	2,000	N	N	N	70	700	1.0
JA0092	58 2 40	134 58 19	7.0	2.00	.50	.70	3,000	N	N	N	50	700	1.0
JA0093	58 3 9	135 0 49	7.0	2.00	.70	.50	3,000	N	N	N	50	500	1.0
JA0094	58 3 22	135 4 18	7.0	2.00	.50	.70	2,000	N	N	N	50	700	1.0
JA0095	58 2 59	134 59 48	7.0	2.00	.50	.70	3,000	N	N	N	70	500	1.0
JA0096	58 19 19	134 28 55	5.0	2.00	1.00	.50	2,000	N	N	N	100	1,000	1.0
JA0097	58 18 17	134 27 10	5.0	1.50	1.00	.50	3,000	N	N	N	100	1,000	1.0
JA0098	58 17 50	134 26 13	7.0	2.00	1.00	.50	2,000	N	N	N	70	1,000	1.0
JA0099	58 16 38	134 24 9	7.0	1.50	1.50	.70	2,000	N	N	N	50	1,500	1.0
JA0100	58 5 50	134 45 20	3.0	2.00	.50	.50	1,000	<.5	N	N	50	2,000	1.0
JA0101	58 6 0	134 45 0	3.0	3.00	.70	.30	700	N	N	N	20	1,500	<1.0
JA0102	58 10 40	134 51 15	7.0	3.00	.50	.70	700	<.5	N	N	15	2,000	1.5

TABLE 3.--Spectrographic and chemical analyses of stream sediments from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s
JA0058	N	N	30	300	30	N	5	N	70	20	N	30	N	300
JA0059	N	N	30	300	20	50	<5	N	50	20	N	30	N	700
JA0060	N	N	30	500	20	50	N	N	70	15	N	30	N	500
JA0061	N	N	50	200	50	50	20	N	70	30	N	50	N	300
JA0062	N	N	70	300	50	<20	10	N	100	15	N	70	N	300
JA0063	N	N	70	200	30	N	7	N	70	30	N	50	N	300
JA0064	N	N	70	500	50	<20	10	20	150	20	N	70	N	200
JA0065	N	N	50	100	20	N	N	N	50	30	N	50	N	200
JA0066	N	N	30	300	20	N	<5	N	50	20	N	50	N	300
JA0067	N	N	50	300	20	<20	N	N	50	20	N	50	N	700
JA0068	N	N	30	300	10	30	N	N	30	20	N	50	N	1,000
JA0069	N	N	70	200	15	20	N	N	20	30	N	50	N	700
JA0070	N	N	70	300	30	N	N	N	50	15	N	50	N	700
JA0071	N	N	100	700	50	N	N	N	100	15	N	70	N	700
JA0072	N	N	70	700	50	N	N	N	70	15	N	70	N	1,000
JA0073	N	N	100	700	50	N	N	N	100	15	N	70	N	1,000
JA0074	N	N	70	700	50	N	N	N	100	15	N	70	N	1,000
JA0075	N	N	50	300	30	N	N	N	50	20	N	50	N	700
JA0076	N	N	50	150	30	N	N	N	50	20	N	20	N	700
JA0077	N	N	70	700	50	N	N	N	70	15	N	70	N	700
JA0078	N	N	50	200	50	N	N	N	50	20	N	50	N	500
JA0079	N	N	30	150	30	N	N	N	50	20	N	30	N	500
JA0080	N	N	30	200	20	N	N	N	50	20	N	30	N	500
JA0081	N	N	50	300	50	N	7	N	70	20	N	50	N	300
JA0082	N	N	50	500	30	N	N	N	70	15	N	50	N	300
JA0083	N	N	30	500	20	N	N	N	70	15	N	30	N	500
JA0084	N	N	70	500	20	N	N	<20	70	20	N	70	N	1,000
JA0085	N	N	50	300	20	20	N	N	50	50	N	50	N	700
JA0086	N	N	30	200	20	N	N	N	50	20	N	30	N	700
JA0087	N	N	50	500	20	50	N	N	50	20	N	50	N	500
JA0088	N	N	50	300	30	N	N	20	70	15	N	50	N	300
JA0089	N	N	50	500	30	100	N	20	70	15	N	50	N	300
JA0090	N	N	30	100	20	N	N	N	50	30	N	20	N	200
JA0091	N	N	30	100	30	N	N	N	50	30	N	20	N	200
JA0092	N	N	30	300	20	N	N	N	50	30	N	30	N	200
JA0093	N	N	50	70	20	N	N	N	50	30	N	30	N	300
JA0094	N	N	30	100	30	N	N	N	50	30	N	30	N	200
JA0095	N	N	50	200	30	N	N	N	50	30	N	30	N	200
JA0096	N	N	50	300	30	N	N	N	70	30	N	30	N	500
JA0097	N	N	50	300	30	N	N	N	50	30	N	30	N	500
JA0098	N	N	30	300	30	N	N	N	50	30	N	30	N	300
JA0099	N	N	30	700	30	50	N	N	50	20	N	50	N	700
JA0100	N	N	20	300	70	30	5	N	70	30	N	20	N	200
JA0101	N	N	20	200	20	20	N	N	100	20	N	15	N	300
JA0102	N	N	30	150	100	70	5	<20	100	30	N	20	N	100

TABLE 3.--Spectrographic and chemical analyses of stream sediments from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	Hg-ppm inst	Te-ppm aa	As-ppm aa	Zn-ppm aa	Cd-ppm aa	Bi-ppm aa	Sb-ppm aa
JA0058	500	N	50	200	100	N	--	--	--	--	--	--	--	--
JA0059	300	N	50	N	100	N	--	--	--	--	--	--	--	--
JA0060	300	N	50	N	100	N	--	--	--	--	--	--	--	--
JA0061	500	N	70	300	150	N	--	--	--	--	--	--	--	--
JA0062	500	N	50	300	100	N	--	--	--	--	--	--	--	--
JA0063	300	N	50	300	100	N	--	--	--	--	--	--	--	--
JA0064	300	N	70	200	100	N	--	--	--	--	--	--	--	--
JA0065	300	N	50	N	100	N	--	--	--	--	--	--	--	--
JA0066	300	N	70	N	150	N	--	--	--	--	--	--	--	--
JA0067	300	N	50	N	150	N	--	--	--	--	--	--	--	--
JA0068	500	N	70	N	200	N	--	--	--	--	--	--	--	--
JA0069	300	N	50	N	200	N	--	--	--	--	--	--	--	--
JA0070	500	N	50	N	70	N	--	--	--	--	--	--	--	--
JA0071	500	N	50	N	70	N	--	--	--	--	--	--	--	--
JA0072	500	N	50	N	70	N	--	--	--	--	--	--	--	--
JA0073	500	N	30	N	70	N	--	--	--	--	--	--	--	--
JA0074	500	N	50	N	70	N	--	--	--	--	--	--	--	--
JA0075	300	N	30	N	300	N	--	--	--	--	--	--	--	--
JA0076	200	N	20	N	100	N	--	--	--	--	--	--	--	--
JA0077	500	N	30	N	70	N	--	--	--	--	--	--	--	--
JA0078	300	N	50	N	200	N	--	--	--	--	--	--	--	--
JA0079	300	N	50	N	200	N	--	--	--	--	--	--	--	--
JA0080	300	N	30	N	150	N	--	--	--	--	--	--	--	--
JA0081	500	N	50	<200	100	N	--	--	--	--	--	--	--	--
JA0082	500	N	50	<200	150	N	--	--	--	--	--	--	--	--
JA0083	500	N	50	N	100	N	--	--	--	--	--	--	--	--
JA0084	300	N	70	N	200	N	--	--	--	--	--	--	--	--
JA0085	300	N	70	N	150	N	--	--	--	--	--	--	--	--
JA0086	300	N	30	N	100	N	--	--	--	--	--	--	--	--
JA0087	300	N	50	N	100	N	--	--	--	--	--	--	--	--
JA0088	300	N	100	N	100	N	--	--	--	--	--	--	--	--
JA0089	300	N	50	N	150	N	--	--	--	--	--	--	--	--
JA0090	200	N	50	<200	150	N	--	--	--	--	--	--	--	--
JA0091	200	N	30	N	100	N	--	--	--	--	--	--	--	--
JA0092	200	N	30	<200	100	N	--	--	--	--	--	--	--	--
JA0093	200	N	50	<200	100	N	--	--	--	--	--	--	--	--
JA0094	300	N	50	N	100	N	--	--	--	--	--	--	--	--
JA0095	200	N	50	<200	100	N	--	--	--	--	--	--	--	--
JA0096	200	N	50	<200	100	N	--	--	--	--	--	--	--	--
JA0097	200	N	50	200	100	N	--	--	--	--	--	--	--	--
JA0098	200	N	30	N	150	N	--	--	--	--	--	--	--	--
JA0099	300	N	50	N	150	N	--	--	--	--	--	--	--	--
JA0100	100	N	50	<200	100	N	--	--	--	--	--	--	--	--
JA0101	70	N	30	200	150	N	--	--	--	--	--	--	--	--
JA0102	100	N	50	200	150	N	--	--	--	--	--	--	--	--

TABLE 3.--Spectrographic and chemical analyses of stream sediments from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
JA0103	58 10 50	134 52 10	7.0	3.00	.50	.70	1,000	N	N	N	<10	1,500	1.5
JA0104	58 15 40	134 54 30	5.0	2.00	1.00	.70	2,000	N	N	N	20	1,500	1.0
JA0105	58 10 20	134 29 5	3.0	2.00	.70	.50	1,000	N	N	N	30	1,500	1.0
JA0106	58 10 10	134 26 20	7.0	3.00	.70	.50	1,500	N	N	N	70	1,000	1.0
JA0107	58 8 40	134 19 10	5.0	2.00	1.00	.30	1,000	N	N	N	20	1,500	<1.0
JA0108	58 7 20	134 18 40	7.0	2.00	1.00	.50	>5,000	N	N	N	20	1,500	1.0
JA0110	58 5 11	135 50 15	10.0	3.00	3.00	1.00	1,000	N	N	N	10	1,000	<1.0
JA0111	58 5 16	135 50 4	7.0	3.00	2.00	.70	1,000	N	N	N	10	700	<1.0
JA0112	58 4 21	135 48 53	7.0	3.00	3.00	.70	700	<.5	N	N	<10	700	1.0
JA0113	58 2 23	135 46 11	10.0	2.00	1.50	.70	2,000	N	N	N	15	500	<1.0
JA0115	58 18 47	135 2 42	10.0	3.00	2.00	1.00	1,500	5.0	N	N	10	2,000	1.0
JA0116	58 21 57	133 49 42	7.0	3.00	3.00	.70	1,500	N	N	N	10	1,000	1.5
JA0117	58 17 12	133 47 58	7.0	.70	2.00	.50	1,000	N	N	N	<10	2,000	2.0
JA0118	58 17 16	133 52 50	15.0	2.00	3.00	.70	1,000	N	N	N	<10	1,500	1.5
JA0119	58 25 46	133 55 49	7.0	1.00	1.00	.70	1,000	N	N	N	<10	1,500	2.0
JA0120	58 29 43	133 46 33	3.0	1.50	.70	.70	1,000	N	N	N	15	1,000	1.0
JA0121	58 5 0	133 52 11	5.0	2.00	.70	1.00	1,000	N	N	N	10	1,500	<1.0
JA0122	58 5 4	133 52 5	5.0	2.00	1.50	.70	1,500	<.5	N	N	15	2,000	1.0
JA0136	59 18 53	135 43 32	7.0	2.00	1.00	.30	1,000	N	N	N	20	200	N
JA0140	59 18 45	135 32 59	5.0	2.00	1.50	.50	1,000	N	N	N	10	300	N
JA0141	59 17 50	135 30 56	5.0	2.00	1.00	.30	700	N	N	N	<10	500	<1.0
JA0144	58 15 50	134 22 0	20.0	.05	.70	.10	70	7.0	300	N	N	>5,000	<1.0
JA0145	58 24 30	134 32 26	5.0	2.00	1.50	1.00	1,000	N	N	N	15	500	1.5
JA0146	58 23 47	134 37 58	5.0	2.00	.50	.30	1,000	<.5	N	N	50	500	N
JA0147	58 20 0	134 27 49	5.0	2.00	1.00	1.00	1,000	<.5	N	N	10	700	1.0
JA0201	58 16 1	134 22 58	3.0	1.50	1.00	.50	700	N	N	N	20	700	1.0
JA0202	58 3 32	134 9 18	5.0	3.00	5.00	.50	1,000	N	N	N	<10	300	<1.0
JA0203	58 3 25	134 9 13	5.0	3.00	5.00	.50	1,500	N	N	N	10	500	<1.0
JA0204	58 2 50	134 8 39	5.0	2.00	.70	.50	2,000	N	N	N	50	700	1.0
JA0205	58 1 2	134 11 14	3.0	2.00	.70	.30	1,000	N	N	N	20	1,000	1.0
JA0206	58 1 2	134 11 7	3.0	2.00	.70	.50	1,500	N	N	N	20	1,000	1.0
JA0207	58 0 58	134 11 4	3.0	1.50	.70	.50	1,000	N	N	N	20	1,500	1.0
JA0208	58 4 53	134 13 27	3.0	1.50	.70	.70	700	N	N	N	50	1,000	1.0
JA0209	58 4 52	134 16 17	5.0	2.00	.70	.70	700	N	N	N	20	1,000	<1.0
JA0211	58 4 4	134 18 18	7.0	2.00	.50	.70	1,500	N	N	N	70	700	1.5
JA0212	58 2 0	134 17 51	5.0	2.00	.70	.70	1,500	N	N	N	30	1,000	<1.0
JA0213	58 2 9	134 18 14	5.0	2.00	.70	.70	2,000	N	N	N	30	1,000	1.5
JA0214	58 3 51	134 24 52	7.0	3.00	2.00	>1.00	1,500	.7	N	N	10	300	<1.0
JA0215	58 2 3	134 20 35	5.0	3.00	.70	>1.00	1,500	N	N	N	70	700	<1.0
JA0216	58 11 50	134 19 21	5.0	3.00	1.50	.70	1,500	N	N	N	10	500	<1.0
JA0217	58 12 30	134 22 8	5.0	2.00	1.00	.70	1,000	<.5	N	N	20	500	1.0
JA0218	58 12 59	134 23 31	7.0	5.00	2.00	.70	1,000	N	N	N	<10	200	<1.0
JA0219	58 13 35	134 33 33	3.0	2.00	3.00	.30	1,000	N	N	N	10	500	1.0
JA0220	58 13 55	134 35 25	3.0	3.00	3.00	.20	1,000	N	N	N	10	100	<1.0
JA0221	58 27 50	134 29 16	5.0	1.00	2.00	.50	700	N	N	N	<10	700	1.5

TABLE 3.--Spectrographic and chemical analyses of stream sediments from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s
JA0103	N	N	20	50	30	70	N	N	10	70	N	20	N	100
JA0104	N	N	20	150	10	20	N	N	15	20	N	20	N	500
JA0105	N	N	10	150	10	N	N	N	20	20	N	15	N	500
JA0106	N	N	20	200	20	70	N	<20	50	20	N	20	N	300
JA0107	N	N	10	500	7	N	N	N	30	20	N	15	N	500
JA0108	N	N	30	300	20	30	<5	<20	30	30	N	15	N	700
JA0110	N	N	30	70	30	50	N	N	20	<10	N	20	N	500
JA0111	N	N	20	50	70	50	N	<20	20	<10	N	15	N	300
JA0112	N	N	15	70	50	50	N	N	15	<10	N	30	N	700
JA0113	N	N	20	50	10	20	N	20	10	10	N	15	N	300
JA0115	N	N	30	150	70	30	N	<20	50	50	N	30	N	300
JA0116	N	N	10	70	7	70	N	<20	15	20	N	20	N	300
JA0117	N	N	<5	20	<5	200	N	<20	N	30	N	5	N	500
JA0118	N	N	20	70	<5	150	N	<20	7	20	N	20	N	500
JA0119	N	N	10	100	10	300	<5	20	10	30	N	20	N	500
JA0120	N	N	20	70	15	70	<5	<20	30	20	N	20	N	300
JA0121	N	N	30	150	30	30	N	<20	70	20	N	30	N	300
JA0122	N	N	20	100	20	50	N	N	20	10	N	30	15	300
JA0136	N	N	30	100	100	N	N	N	30	10	N	20	N	300
JA0140	N	N	50	150	70	N	N	N	50	10	N	30	N	700
JA0141	N	N	30	100	100	N	N	N	30	20	N	20	N	500
JA0144	N	N	150	<10	1,500	50	100	N	50	300	N	<5	N	>5,000
JA0145	N	N	20	100	50	30	N	<20	50	10	N	20	N	700
JA0146	N	N	30	200	70	N	N	N	50	20	N	20	N	200
JA0147	N	N	20	150	30	50	N	20	50	20	N	20	N	300
JA0201	N	N	30	70	50	30	<5	N	15	30	N	20	N	700
JA0202	N	N	50	200	70	N	N	N	30	<10	N	30	N	1,000
JA0203	N	N	30	100	50	N	5	N	20	<10	N	30	N	1,000
JA0204	N	N	50	100	100	N	<5	N	20	20	N	20	N	500
JA0205	N	N	30	500	20	N	<5	N	20	20	N	15	N	500
JA0206	N	N	30	700	20	N	<5	N	30	30	N	15	N	500
JA0207	N	N	20	1,000	7	N	N	N	20	20	N	15	N	300
JA0208	N	N	15	500	15	50	5	N	20	10	N	15	N	500
JA0209	N	N	20	500	15	30	<5	<20	30	20	N	15	N	500
JA0211	N	N	30	100	50	N	N	N	20	20	N	20	N	200
JA0212	N	N	50	500	20	N	<5	N	30	30	N	15	N	300
JA0213	N	N	30	200	20	N	5	N	20	30	N	15	N	500
JA0214	N	N	50	200	100	N	5	N	50	20	N	30	N	300
JA0215	N	N	20	200	15	50	N	<20	30	<10	N	30	N	200
JA0216	N	N	50	300	150	N	N	N	20	10	N	20	N	700
JA0217	N	N	30	150	100	30	N	N	20	30	N	20	N	500
JA0218	N	N	50	500	100	N	N	N	30	<10	N	30	N	500
JA0219	N	N	30	200	50	N	<5	N	50	<10	N	30	N	500
JA0220	N	N	50	150	70	N	N	N	50	10	N	30	N	700
JA0221	N	N	10	20	<5	100	N	N	<5	10	N	20	N	700

TABLE 3.--Spectrographic and chemical analyses of stream sediments from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	Hg-ppm inst	Te-ppm aa	As-ppm aa	Zn-ppm aa	Cd-ppm aa	Bi-ppm aa	Sb-ppm aa
JA0103	70	N	70	N	150	N	--	--	--	--	--	--	--	--
JA0104	100	N	30	N	200	N	--	--	--	--	--	--	--	--
JA0105	70	N	20	N	150	N	--	--	--	--	--	--	--	--
JA0106	100	N	20	N	150	N	--	--	--	--	--	--	--	--
JA0107	70	N	20	N	100	N	--	--	--	--	--	--	--	--
JA0108	70	N	30	N	150	N	--	--	--	--	--	--	--	--
JA0110	150	N	50	N	100	N	--	--	--	--	--	--	--	--
JA0111	100	N	30	N	100	N	--	--	--	--	--	--	--	--
JA0112	100	N	50	N	300	N	--	--	--	--	--	--	--	--
JA0113	70	N	30	N	150	N	--	--	--	--	--	--	--	--
JA0115	100	N	50	N	150	N	--	--	--	--	--	--	--	--
JA0116	100	N	50	N	300	N	--	--	--	--	--	--	--	--
JA0117	150	N	70	N	>1,000	N	--	--	--	--	--	--	--	--
JA0118	150	N	70	N	1,000	N	--	--	--	--	--	--	--	--
JA0119	300	N	70	N	500	N	--	--	--	--	--	--	--	--
JA0120	100	N	50	N	150	N	--	--	--	--	--	--	--	--
JA0121	150	N	50	N	100	N	--	--	--	--	--	--	--	--
JA0122	200	N	50	N	200	N	--	--	--	--	--	--	--	--
JA0136	150	N	50	<200	200	N	--	--	--	--	--	--	--	--
JA0140	150	N	50	<200	100	N	--	--	--	--	--	--	--	--
JA0141	150	N	20	<200	70	N	--	--	--	--	--	--	--	--
JA0144	50	N	30	<200	100	N	--	--	--	--	--	--	--	--
JA0145	100	N	20	N	100	N	--	--	--	--	--	--	--	--
JA0146	150	N	20	N	100	N	--	--	--	--	--	--	--	--
JA0147	100	N	30	N	100	N	--	--	--	--	--	--	--	--
JA0201	200	N	50	N	100	N	--	--	--	--	--	--	--	--
JA0202	300	N	30	<200	50	N	--	--	--	--	--	--	--	--
JA0203	300	N	30	N	50	N	--	--	--	--	--	--	--	--
JA0204	200	N	20	N	150	N	--	--	--	--	--	--	--	--
JA0205	100	N	20	N	100	N	--	--	--	--	--	--	--	--
JA0206	150	N	20	N	150	N	--	--	--	--	--	--	--	--
JA0207	100	N	20	N	200	N	--	--	--	--	--	--	--	--
JA0208	100	N	30	N	150	N	--	--	--	--	--	--	--	--
JA0209	150	N	20	N	150	N	--	--	--	--	--	--	--	--
JA0211	200	N	20	<200	150	N	--	--	--	--	--	--	--	--
JA0212	200	N	20	N	150	N	--	--	--	--	--	--	--	--
JA0213	200	N	30	N	100	N	--	--	--	--	--	--	--	--
JA0214	200	N	50	<200	200	N	--	--	--	--	--	--	--	--
JA0215	200	N	50	<200	500	N	--	--	--	--	--	--	--	--
JA0216	300	N	30	N	50	N	--	--	--	--	--	--	--	--
JA0217	200	N	30	N	150	N	--	--	--	--	--	--	--	--
JA0218	200	N	20	N	50	N	--	--	--	--	--	--	--	--
JA0219	150	N	20	N	50	N	--	--	--	--	--	--	--	--
JA0220	150	N	20	N	30	N	--	--	--	--	--	--	--	--
JA0221	100	N	30	N	300	N	--	--	--	--	--	--	--	--

TABLE 3.--Spectrographic and chemical analyses of stream sediments from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
JA0222	58 30 2	134 31 58	5.0	1.50	2.00	.50	700	N	N	N	<10	700	1.0
JA0223	58 31 15	134 31 39	5.0	1.50	1.50	.50	700	N	N	N	<10	700	1.0
JA0224	58 26 25	134 27 55	3.0	2.00	3.00	.30	1,000	<.5	N	N	<10	1,000	<1.0
JA0225	58 25 47	134 25 44	3.0	1.50	3.00	.30	1,000	<.5	N	N	<10	1,000	1.5
JA0226	58 26 23	134 27 50	5.0	1.50	2.00	.30	1,000	N	N	N	10	700	2.0
JA0227	58 4 23	134 31 35	3.0	2.00	.30	.30	700	<.5	N	N	30	1,500	<1.0
JA0228	58 4 28	134 31 41	3.0	1.50	.15	.30	700	<.5	N	N	50	2,000	1.0
JA0229	58 5 0	134 29 10	3.0	3.00	.70	.30	1,000	.5	N	N	15	2,000	<1.0
JA0230	58 5 2	134 29 19	5.0	2.00	.70	.70	1,000	.5	N	N	30	2,000	<1.0
JA0231	58 5 30	134 25 25	3.0	2.00	.30	.50	700	N	N	N	20	700	<1.0
JA0232	58 5 22	134 25 28	5.0	2.00	.70	.50	1,000	<.5	N	N	30	1,500	<1.0
JA0233	58 4 23	134 0 40	7.0	2.00	1.00	1.00	700	N	N	N	<10	500	1.0
JA0234	58 4 39	134 0 45	7.0	2.00	1.00	1.00	1,000	N	N	N	<10	500	1.0
JA0235	58 4 41	134 1 11	5.0	2.00	1.00	.50	1,500	N	N	N	10	700	<1.0
JA0236	58 32 22	134 50 28	5.0	1.50	.70	.50	1,500	N	N	N	50	700	<1.0
JA0237	58 32 30	134 50 51	5.0	1.00	.30	.30	1,000	N	N	N	70	700	<1.0
JA0238	58 34 19	134 52 57	7.0	3.00	2.00	.50	1,000	N	N	N	70	300	N
JA0239	58 35 36	134 51 0	5.0	2.00	1.50	.50	1,000	N	N	N	50	500	1.0
JA0240	58 12 15	134 4 49	5.0	2.00	1.00	.50	700	N	N	N	<10	700	<1.0
JA0241	58 28 2	135 7 28	3.0	1.50	10.00	.30	500	N	N	N	15	300	1.0
JA0242	58 26 15	135 8 40	3.0	1.50	1.50	.50	500	N	N	N	10	500	1.0
JA0243	58 22 28	135 13 58	7.0	2.00	10.00	.30	500	N	N	N	50	500	<1.0
JA0244	58 22 7	135 14 5	5.0	1.50	.15	.50	300	N	N	N	50	500	1.0
JA0245	58 21 5	135 3 29	5.0	1.00	.70	.50	1,000	<.5	N	N	70	500	1.5
JA0246	58 1 43	135 9 14	7.0	1.50	.70	1.00	1,500	N	N	N	10	500	1.5
JA0247	58 1 47	135 9 23	7.0	1.50	.50	1.00	700	N	N	N	20	500	2.0
JA0248	58 2 48	135 8 37	5.0	1.50	.20	.70	1,000	N	N	N	30	500	1.0
JA0249	58 2 50	135 8 41	7.0	2.00	.70	1.00	1,000	N	N	N	30	500	1.5
JA0250	58 5 13	135 11 34	5.0	1.00	.50	.70	1,000	N	N	N	70	300	1.0
JA0251	58 3 37	135 17 19	7.0	2.00	.70	1.00	700	N	N	N	10	500	1.5
JA0252	58 3 41	135 17 19	3.0	1.00	.20	.30	1,000	N	N	N	50	700	1.5
JA0253	58 5 40	135 24 3	7.0	2.00	1.00	1.00	1,500	N	N	N	10	700	1.5
JA0254	58 3 37	135 27 28	5.0	1.50	.50	.30	1,500	N	N	N	<10	700	1.5
JA0255	58 2 2	135 28 39	7.0	3.00	1.00	.70	1,000	N	N	N	10	500	1.5
JA0256	58 2 5	135 28 45	3.0	3.00	.70	.50	700	N	N	N	20	700	1.0
JA0257	58 10 20	135 32 39	7.0	2.00	.70	1.00	1,000	N	N	N	10	1,000	1.5
JA0258	58 0 50	135 33 28	5.0	2.00	.50	.70	500	N	N	N	20	700	1.0
JA0259	58 0 55	135 33 20	7.0	3.00	.50	1.00	700	N	N	N	20	700	1.0
JA0260	58 3 48	135 46 44	5.0	2.00	.50	.70	700	N	N	N	30	500	<1.0
JA0261	58 1 45	135 41 46	5.0	2.00	.20	.70	700	N	N	N	20	500	<1.0
JA0262	58 2 13	135 42 21	5.0	2.00	.70	1.00	1,500	N	N	N	15	700	<1.0
JA0263	58 5 48	135 35 20	10.0	1.50	.50	>1.00	1,500	N	N	N	20	300	1.5
JA0264	58 5 51	135 35 15	5.0	1.00	.15	1.00	700	N	N	N	20	500	<1.0
JA0265	58 6 28	135 32 13	10.0	2.00	.50	1.00	700	N	N	N	10	500	<1.0
JA0266	58 10 53	135 36 41	10.0	1.50	.20	>1.00	1,000	N	N	N	20	500	1.5

TABLE 3.--Spectrographic and chemical analyses of stream sediments from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s
JA0222	N	N	20	10	5	50	N	N	5	10	N	20	N	700
JA0223	N	N	20	20	5	30	N	N	5	30	N	20	N	700
JA0224	N	N	30	100	20	100	N	N	30	30	N	20	N	500
JA0225	N	N	30	70	70	70	N	<20	20	20	N	20	N	300
JA0226	N	N	20	50	5	100	N	<20	7	20	N	30	N	500
JA0227	N	N	30	70	70	N	5	N	50	<10	N	20	N	100
JA0228	N	N	30	70	70	N	5	N	30	10	N	20	N	100
JA0229	N	N	50	100	100	70	5	N	70	10	N	20	N	150
JA0230	N	N	30	150	100	N	5	N	30	<10	N	20	N	200
JA0231	N	N	20	100	20	N	N	N	20	<10	N	15	N	200
JA0232	N	N	30	150	70	N	<5	N	30	10	N	20	N	200
JA0233	N	N	30	100	15	100	<5	<20	50	<10	N	20	N	700
JA0234	N	N	30	100	20	150	<5	<20	20	<10	N	20	N	700
JA0235	N	N	50	500	15	N	N	N	30	10	N	20	N	300
JA0236	N	N	50	200	70	50	N	N	30	20	N	30	N	300
JA0237	N	N	30	100	70	N	N	N	30	20	N	20	N	200
JA0238	N	N	50	700	100	N	5	N	50	10	N	30	N	300
JA0239	N	N	50	500	70	N	N	N	50	10	N	30	N	500
JA0240	N	N	30	100	100	30	N	N	20	20	N	30	N	300
JA0241	N	N	10	100	50	50	<5	N	10	<10	N	10	N	700
JA0242	N	N	15	50	30	N	<5	<20	10	<10	N	10	N	500
JA0243	N	N	30	70	100	50	N	N	15	20	N	15	N	700
JA0244	N	N	30	70	70	30	<5	N	20	50	N	15	N	100
JA0245	N	N	20	70	70	N	N	N	10	30	N	15	N	200
JA0246	N	N	50	100	70	70	<5	20	20	20	N	20	N	300
JA0247	N	N	30	100	50	100	N	20	20	20	N	15	N	300
JA0248	N	N	20	70	50	N	N	N	20	50	N	15	N	200
JA0249	N	N	30	150	50	50	N	<20	30	10	N	15	N	300
JA0250	N	N	20	70	100	50	N	<20	20	20	N	15	N	200
JA0251	N	N	50	150	30	100	N	20	70	30	N	20	N	500
JA0252	N	N	20	100	30	50	N	<20	50	20	N	15	N	200
JA0253	N	N	20	200	30	70	<5	20	50	20	N	30	N	500
JA0254	N	N	20	150	20	100	5	20	50	15	N	15	N	300
JA0255	N	N	30	70	100	50	5	<20	50	50	N	15	N	300
JA0256	N	N	15	150	30	30	N	N	30	30	N	20	N	500
JA0257	N	N	30	100	70	70	N	20	50	30	N	15	N	300
JA0258	N	N	20	50	50	N	N	N	20	30	N	20	N	300
JA0259	N	N	30	100	50	50	N	N	30	20	N	20	N	300
JA0260	N	N	30	70	70	N	N	N	30	30	N	20	N	500
JA0261	N	N	30	50	70	N	N	N	50	30	N	15	N	200
JA0262	N	N	20	50	100	50	N	<20	20	30	N	15	N	300
JA0263	N	N	30	50	70	70	N	20	15	15	N	15	N	200
JA0264	N	N	20	100	50	70	N	<20	20	<10	N	15	N	200
JA0265	N	N	30	200	50	50	N	20	70	30	N	20	N	300
JA0266	N	N	30	150	70	70	N	20	50	20	N	15	N	200

TABLE 3.--Spectrographic and chemical analyses of stream sediments from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	Hg-ppm inst	Te-ppm aa	As-ppm aa	Zn-ppm aa	Cd-ppm aa	Bi-ppm aa	Sb-ppm aa
JA0222	100	N	30	N	150	N	--	--	--	--	--	--	--	--
JA0223	150	N	30	N	200	N	--	--	--	--	--	--	--	--
JA0224	100	N	50	N	200	N	--	--	--	--	--	--	--	--
JA0225	100	N	50	N	200	N	--	--	--	--	--	--	--	--
JA0226	150	N	30	N	500	N	--	--	--	--	--	--	--	--
JA0227	200	N	30	<200	100	N	--	--	--	--	--	--	--	--
JA0228	300	N	50	200	150	N	--	--	--	--	--	--	--	--
JA0229	200	N	30	<200	100	N	--	--	--	--	--	--	--	--
JA0230	300	N	30	<200	100	N	--	--	--	--	--	--	--	--
JA0231	150	N	20	N	150	N	--	--	--	--	--	--	--	--
JA0232	300	N	30	200	150	N	--	--	--	--	--	--	--	--
JA0233	150	N	30	N	150	N	--	--	--	--	--	--	--	--
JA0234	150	N	50	N	200	N	--	--	--	--	--	--	--	--
JA0235	200	N	20	N	100	N	--	--	--	--	--	--	--	--
JA0236	200	N	30	<200	150	N	--	--	--	--	--	--	--	--
JA0237	200	N	20	200	100	N	--	--	--	--	--	--	--	--
JA0238	300	N	20	N	20	N	--	--	--	--	--	--	--	--
JA0239	200	N	20	N	70	N	--	--	--	--	--	--	--	--
JA0240	300	N	30	N	50	N	--	--	--	--	--	--	--	--
JA0241	100	N	30	N	100	N	--	--	--	--	--	--	--	--
JA0242	100	N	20	N	70	N	--	--	--	--	--	--	--	--
JA0243	150	N	30	N	100	N	--	--	--	--	--	--	--	--
JA0244	150	N	20	N	100	N	--	--	--	--	--	--	--	--
JA0245	150	N	30	N	100	N	--	--	--	--	--	--	--	--
JA0246	200	N	50	<200	200	N	--	--	--	--	--	--	--	--
JA0247	150	N	30	N	150	N	--	--	--	--	--	--	--	--
JA0248	150	N	30	N	150	N	--	--	--	--	--	--	--	--
JA0249	200	N	30	N	150	N	--	--	--	--	--	--	--	--
JA0250	200	N	20	N	150	N	--	--	--	--	--	--	--	--
JA0251	200	N	50	N	150	N	--	--	--	--	--	--	--	--
JA0252	150	N	20	N	150	N	--	--	--	--	--	--	--	--
JA0253	200	N	50	N	200	N	--	--	--	--	--	--	--	--
JA0254	100	N	50	N	200	N	--	--	--	--	--	--	--	--
JA0255	100	N	30	N	150	N	--	--	--	--	--	--	--	--
JA0256	150	N	30	N	200	N	--	--	--	--	--	--	--	--
JA0257	200	N	50	N	200	N	--	--	--	--	--	--	--	--
JA0258	150	N	20	N	200	N	--	--	--	--	--	--	--	--
JA0259	300	N	30	N	200	N	--	--	--	--	--	--	--	--
JA0260	150	N	30	N	150	N	--	--	--	--	--	--	--	--
JA0261	200	N	20	N	150	N	--	--	--	--	--	--	--	--
JA0262	200	N	30	N	200	N	--	--	--	--	--	--	--	--
JA0263	100	N	50	N	300	N	--	--	--	--	--	--	--	--
JA0264	300	N	20	N	150	N	--	--	--	--	--	--	--	--
JA0265	300	N	20	N	150	N	--	--	--	--	--	--	--	--
JA0266	200	N	30	N	200	N	--	--	--	--	--	--	--	--

TABLE 3.--Spectrographic and chemical analyses of stream sediments from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
JA0267	58 13 54	135 43 34	7.0	2.00	.70	1.00	700	N	N	N	20	700	1.0
JA0268	58 13 57	135 43 40	5.0	1.50	.50	.70	700	N	N	N	20	300	1.5
JA0269	58 14 30	135 44 20	3.0	1.50	.70	.70	1,000	N	N	N	20	500	1.0
JA0270	58 28 29	135 13 48	2.0	.70	1.00	.30	500	N	N	N	N	500	<1.0
JA0271	58 26 36	135 15 42	5.0	.70	1.00	.70	500	N	N	N	<10	500	<1.0
JA0272	58 26 38	135 15 46	3.0	1.50	1.00	.70	700	N	N	N	N	700	<1.0
JA0273	58 26 58	135 15 34	3.0	1.50	5.00	.50	500	N	N	N	<10	700	<1.0
JA0274	58 30 16	135 8 15	5.0	2.00	1.00	.50	700	N	N	N	100	300	<1.0
JA0275	58 32 18	135 12 48	3.0	2.00	10.00	.30	500	N	N	N	<10	500	<1.0
JA0276	58 33 21	135 10 14	3.0	3.00	3.00	.70	700	N	N	N	50	700	1.0
JA0277	58 35 49	135 13 17	5.0	3.00	.10	.70	700	N	N	N	70	1,000	1.5
JA0278	58 37 59	134 49 30	7.0	2.00	1.00	.50	1,500	<.5	N	N	N	300	N
JA0279	58 38 2	134 49 32	5.0	2.00	.50	.50	1,000	N	N	N	N	500	N
JA0280	58 36 41	134 47 39	7.0	2.00	.50	1.00	1,000	N	N	N	<10	1,000	N
JA0281	58 36 42	134 47 44	5.0	2.00	.50	.70	2,000	<.5	N	N	10	1,000	<1.0
JA0282	58 18 3	134 13 32	5.0	1.50	.30	1.00	700	<.5	N	N	<10	1,500	1.5
JA0283	58 20 22	134 9 48	7.0	2.00	.50	.70	1,000	N	N	N	<10	1,000	<1.0
JA0284	58 20 50	134 9 52	10.0	2.00	.70	1.00	1,000	N	N	N	10	1,000	<1.0
JA0285	58 21 13	134 3 48	5.0	2.00	1.00	.30	700	N	N	N	<10	700	<1.0
JA0286	58 23 30	134 5 40	5.0	1.50	.70	.30	700	N	N	N	N	700	2.0
JA0287	58 22 3	134 11 29	7.0	2.00	1.00	.50	700	N	N	N	<10	700	1.5
JA0288	58 22 9	134 11 31	7.0	2.00	3.00	.70	1,000	<.5	N	N	10	1,500	1.5
JA0289	58 22 48	134 8 55	10.0	2.00	3.00	1.00	1,000	N	N	N	10	1,500	1.5
JA0290	58 24 23	134 12 7	5.0	2.00	3.00	.50	1,000	N	N	N	10	1,500	1.0
JA0291	58 25 27	134 8 50	5.0	2.00	1.50	.50	1,000	<.5	N	N	<10	1,500	1.0
JA0292	58 25 40	134 12 20	7.0	2.00	2.00	.70	1,000	N	N	N	10	1,000	2.0
JA0293	58 42 21	135 14 10	5.0	3.00	2.00	.70	1,000	N	N	N	10	700	1.0
JA0294	58 44 49	135 14 11	7.0	3.00	1.50	.70	1,500	N	N	N	20	500	<1.0
JA0295	58 47 29	135 25 5	5.0	2.00	1.50	.70	500	N	N	N	50	700	<1.0
JA0296	58 47 31	135 25 0	3.0	2.00	5.00	.30	700	<.5	N	N	10	700	N
JA0297	58 47 27	135 24 47	5.0	3.00	5.00	.30	300	N	N	N	50	1,000	1.0
JA0298	58 48 14	135 31 10	7.0	2.00	1.50	.70	700	<.5	N	N	70	1,500	1.5
JA0299	58 48 15	135 31 10	7.0	2.00	2.00	.50	700	<.5	N	N	50	700	1.0
JA0300	58 16 23	134 19 9	7.0	2.00	.70	1.00	1,000	5.0	N	N	20	2,000	<1.0
JA0301	58 6 29	134 12 0	3.0	2.00	.70	.50	1,000	N	N	N	10	700	1.0
JA0302	58 6 36	134 12 11	5.0	1.50	.70	.50	2,000	N	N	N	<10	700	1.0
JA0303	58 1 47	134 7 15	2.0	1.50	.70	.50	700	N	N	N	20	1,000	<1.0
JA0304	58 1 7	134 6 5	3.0	2.00	.70	.50	700	N	N	N	20	700	<1.0
JA0305	58 0 47	134 5 56	7.0	3.00	.70	.70	1,500	N	N	N	30	1,000	N
JA0306	58 2 32	134 13 31	3.0	3.00	1.00	.50	2,000	N	N	N	20	700	<1.0
JA0307	58 3 47	134 14 58	5.0	2.00	.50	.50	>5,000	N	N	N	30	1,000	1.0
JA0308	58 6 10	134 20 28	2.0	1.50	.20	.50	1,000	N	N	N	50	700	1.0
JA0309	58 5 58	134 19 8	2.0	2.00	.20	.50	700	N	N	N	50	500	<1.0
JA0310	58 2 24	134 17 3	3.0	1.50	.70	.70	1,000	N	N	N	30	1,000	<1.0
JA0311	58 2 19	134 17 5	3.0	1.50	.70	.50	1,000	N	N	N	20	1,000	1.0

TABLE 3.--Spectrographic and chemical analyses of stream sediments from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s
JA0267	N	N	20	70	70	50	N	<20	30	10	N	15	N	200
JA0268	N	N	20	100	50	70	N	<20	30	<10	N	15	N	300
JA0269	N	N	20	50	20	50	N	N	20	<10	N	15	N	300
JA0270	N	N	7	10	5	30	N	N	10	N	N	7	N	700
JA0271	N	N	10	20	<5	70	N	<20	7	N	N	5	N	700
JA0272	N	N	15	15	10	30	N	N	15	<10	N	10	N	700
JA0273	N	N	10	20	10	50	N	N	10	<10	N	7	N	1,000
JA0274	N	N	20	30	20	20	N	N	50	10	N	15	N	500
JA0275	N	N	15	30	70	20	N	N	20	<10	N	15	N	1,000
JA0276	N	N	20	100	20	50	N	N	50	20	N	15	N	500
JA0277	N	N	20	100	50	50	<5	N	100	20	N	15	N	<100
JA0278	N	N	70	50	300	N	5	<20	50	10	N	30	N	500
JA0279	N	N	20	30	150	30	7	N	15	<10	N	20	N	500
JA0280	N	N	20	20	<5	50	N	N	5	10	N	30	N	300
JA0281	N	N	30	50	200	30	N	N	20	15	N	20	N	500
JA0282	N	N	15	30	70	70	N	<20	15	10	N	20	N	300
JA0283	N	N	30	100	5	70	N	N	70	10	N	15	N	500
JA0284	N	N	30	70	20	150	<5	<20	30	20	N	20	N	300
JA0285	N	N	30	200	10	50	<5	N	50	10	N	20	N	500
JA0286	N	N	15	100	7	100	N	<20	15	20	N	20	N	500
JA0287	N	N	30	50	7	150	<5	<20	15	20	N	30	N	500
JA0288	N	N	15	100	5	150	N	<20	10	30	N	30	<10	700
JA0289	N	N	30	70	10	300	5	20	15	20	N	20	N	1,000
JA0290	N	N	15	100	10	30	N	N	15	15	N	20	N	700
JA0291	N	N	20	100	100	100	5	<20	50	20	N	15	N	200
JA0292	N	N	15	70	5	100	N	<20	10	30	N	30	N	500
JA0293	N	N	20	50	7	50	N	N	15	30	N	20	N	1,500
JA0294	N	N	50	100	150	N	N	N	20	20	N	30	N	300
JA0295	N	N	20	70	50	50	<5	N	50	20	N	20	N	200
JA0296	N	N	30	50	50	30	N	N	30	100	N	20	N	300
JA0297	N	N	15	70	70	30	<5	N	50	20	N	20	N	500
JA0298	N	N	30	100	100	50	<5	<20	70	50	N	20	N	200
JA0299	N	N	20	100	70	20	<5	N	50	30	N	15	N	300
JA0300	N	N	20	100	100	30	<5	N	50	10	N	20	N	200
JA0301	N	N	20	150	200	30	N	N	20	10	N	20	N	700
JA0302	N	N	30	700	20	70	<5	<20	20	10	N	30	N	700
JA0303	N	N	20	500	7	N	N	N	30	<10	N	20	N	500
JA0304	N	N	30	1,000	15	20	N	N	30	10	N	30	N	500
JA0305	N	N	15	1,500	7	N	<5	N	50	10	N	15	N	500
JA0306	N	N	30	500	30	N	N	N	15	<10	N	20	N	500
JA0307	N	N	70	150	20	30	N	N	30	20	N	20	N	500
JA0308	N	N	20	70	50	N	N	<20	20	<10	N	15	N	200
JA0309	N	N	15	70	20	50	N	N	20	<10	N	15	N	200
JA0310	N	N	20	500	10	30	N	<20	50	10	N	15	N	500
JA0311	N	N	20	700	15	50	N	N	50	10	N	15	N	500

TABLE 3.--Spectrographic and chemical analyses of stream sediments from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	Hg-ppm inst	Te-ppm aa	As-ppm aa	Zn-ppm aa	Cd-ppm aa	Bi-ppm aa	Sb-ppm aa
JA0267	200	N	20	N	150	N	--	--	--	--	--	--	--	--
JA0268	150	N	30	N	200	N	--	--	--	--	--	--	--	--
JA0269	150	N	30	N	200	N	--	--	--	--	--	--	--	--
JA0270	100	N	20	N	150	N	--	--	--	--	--	--	--	--
JA0271	200	N	30	N	500	N	--	--	--	--	--	--	--	--
JA0272	150	N	20	N	200	N	--	--	--	--	--	--	--	--
JA0273	150	N	20	N	200	N	--	--	--	--	--	--	--	--
JA0274	200	N	20	N	150	N	--	--	--	--	--	--	--	--
JA0275	150	N	20	N	100	N	--	--	--	--	--	--	--	--
JA0276	200	N	30	N	200	N	--	--	--	--	--	--	--	--
JA0277	200	N	30	N	200	N	--	--	--	--	--	--	--	--
JA0278	300	N	30	N	300	N	--	--	--	--	--	--	--	--
JA0279	300	N	30	N	300	N	--	--	--	--	--	--	--	--
JA0280	300	N	50	N	>1,000	N	--	--	--	--	--	--	--	--
JA0281	300	N	50	N	150	N	--	--	--	--	--	--	--	--
JA0282	200	N	50	N	150	N	--	--	--	--	--	--	--	--
JA0283	200	N	30	N	200	N	--	--	--	--	--	--	--	--
JA0284	300	N	70	N	200	N	--	--	--	--	--	--	--	--
JA0285	150	N	50	N	100	N	--	--	--	--	--	--	--	--
JA0286	150	N	50	N	300	N	--	--	--	--	--	--	--	--
JA0287	150	N	70	N	200	N	--	--	--	--	--	--	--	--
JA0288	200	N	70	N	300	N	--	--	--	--	--	--	--	--
JA0289	300	N	70	N	500	N	--	--	--	--	--	--	--	--
JA0290	150	N	50	N	200	N	--	--	--	--	--	--	--	--
JA0291	100	N	50	N	150	N	--	--	--	--	--	--	--	--
JA0292	200	N	70	N	1,000	N	--	--	--	--	--	--	--	--
JA0293	200	N	50	300	150	N	--	--	--	--	--	--	--	--
JA0294	300	N	50	N	100	N	--	--	--	--	--	--	--	--
JA0295	200	N	30	N	150	N	--	--	--	--	--	--	--	--
JA0296	150	N	30	N	100	N	--	--	--	--	--	--	--	--
JA0297	150	N	50	N	100	N	--	--	--	--	--	--	--	--
JA0298	200	N	50	<200	200	N	--	--	--	--	--	--	--	--
JA0299	150	N	20	N	150	N	--	--	--	--	--	--	--	--
JA0300	200	N	30	N	150	N	--	--	--	--	--	--	--	--
JA0301	200	N	20	N	100	N	--	--	--	--	--	--	--	--
JA0302	200	N	50	N	100	N	--	--	--	--	--	--	--	--
JA0303	150	N	20	N	100	N	--	--	--	--	--	--	--	--
JA0304	200	N	20	N	150	N	--	--	--	--	--	--	--	--
JA0305	500	N	10	N	50	N	--	--	--	--	--	--	--	--
JA0306	200	N	20	N	50	N	--	--	--	--	--	--	--	--
JA0307	200	N	20	N	150	N	--	--	--	--	--	--	--	--
JA0308	150	N	20	N	100	N	--	--	--	--	--	--	--	--
JA0309	200	N	20	N	100	N	--	--	--	--	--	--	--	--
JA0310	200	N	30	N	300	N	--	--	--	--	--	--	--	--
JA0311	150	N	20	N	200	N	--	--	--	--	--	--	--	--

TABLE 3.--Spectrographic and chemical analyses of stream sediments from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
JA0312	58 2 46	134 19 55	3.0	2.00	.50	.70	2,000	N	N	N	50	700	<1.0
JA0313	58 14 47	134 20 12	5.0	2.00	.50	.70	1,000	N	N	N	50	1,000	1.5
JA0314	58 13 48	134 18 25	5.0	1.50	.20	.70	3,000	<.5	N	N	30	300	1.0
JA0315	58 12 45	134 22 50	5.0	3.00	2.00	.50	1,500	N	N	N	<10	300	<1.0
JA0316	58 13 45	134 27 7	5.0	3.00	2.00	.50	1,000	N	N	N	<10	70	<1.0
JA0317	58 13 38	134 29 57	3.0	5.00	3.00	.50	1,500	N	N	N	<10	100	<1.0
JA0318	58 13 41	134 29 41	3.0	3.00	2.00	.30	700	N	N	N	10	70	<1.0
JA0319	58 15 2	134 37 44	3.0	3.00	2.00	.30	1,000	N	N	N	10	200	<1.0
JA0320	58 14 44	134 37 11	5.0	1.50	.70	.30	1,500	N	N	N	15	500	1.0
JA0321	58 23 11	134 39 29	3.0	1.00	.20	.50	2,000	N	N	N	30	500	1.5
JA0322	58 23 38	134 44 49	3.0	2.00	1.00	.30	2,000	N	N	N	15	700	1.5
JA0323	58 28 5	134 46 37	3.0	1.50	.70	.30	>5,000	N	N	N	70	500	1.0
JA0324	58 29 10	134 46 36	2.0	1.50	.50	.30	1,500	N	N	N	20	700	1.0
JA0325	58 12 36	134 10 38	5.0	1.50	.50	.50	1,000	.5	N	N	20	1,500	1.0
JA0326	58 13 44	134 8 31	3.0	1.50	.50	.50	700	.5	N	N	10	2,000	2.0
JA0327	58 13 48	134 8 27	3.0	1.50	.30	.50	700	.5	N	N	30	2,000	2.0
JA0328	58 17 8	134 9 10	5.0	2.00	1.00	>1.00	1,000	N	N	N	<10	1,000	<1.0
JA0329	58 16 55	134 9 7	3.0	2.00	1.00	1.00	1,000	N	N	N	<10	1,000	1.0
JA0330	58 0 18	134 27 49	7.0	3.00	1.00	>1.00	1,500	N	N	N	10	300	<1.0
JA0331	58 0 15	134 27 51	5.0	2.00	.70	1.00	700	N	N	N	10	500	1.5
JA0332	58 3 8	134 28 58	7.0	2.00	1.00	>1.00	1,000	N	N	N	10	300	<1.0
JA0333	58 3 3	134 29 0	7.0	3.00	.70	1.00	1,500	N	N	N	10	150	<1.0
JA0334	58 3 3	134 28 56	5.0	3.00	1.00	1.00	1,500	N	N	N	10	300	<1.0
JA0335	58 3 6	134 26 40	3.0	3.00	2.00	.30	700	N	N	N	<10	150	N
JA0336	58 3 52	134 22 52	5.0	3.00	2.00	.50	1,000	N	N	N	<10	300	N
JA0337	58 3 55	134 22 48	3.0	1.00	.20	.50	2,000	<.5	N	N	50	300	1.0
JA0338	58 4 46	134 23 54	5.0	2.00	.30	.70	1,000	N	N	N	50	700	1.0
JA0339	58 3 50	134 25 40	3.0	2.00	.30	.50	1,500	N	N	N	30	700	<1.0
JA0340	58 9 8	134 4 36	3.0	1.50	.50	.30	700	N	N	N	10	700	<1.0
JA0341	58 11 22	134 4 58	3.0	1.50	.70	.50	700	<.5	N	N	10	1,000	<1.0
JA0342	58 13 23	134 3 21	3.0	2.00	.20	.50	700	N	N	N	50	700	<1.0
JA0343	58 24 49	135 6 22	3.0	2.00	.20	.50	1,000	N	N	N	50	700	1.0
JA0344	58 24 47	135 6 18	7.0	2.00	.70	.50	5,000	N	N	N	30	700	<1.0
JA0345	58 24 43	135 5 25	5.0	2.00	1.00	.70	2,000	N	N	N	20	700	<1.0
JA0346	58 22 39	135 6 0	3.0	2.00	.70	.50	700	N	N	N	20	1,000	<1.0
JA0347	58 22 44	135 6 3	5.0	2.00	.70	.50	700	N	N	N	15	1,000	N
JA0348	58 3 53	135 7 59	5.0	1.50	.50	.50	700	N	N	N	20	1,500	N
JA0349	58 3 50	135 7 59	5.0	1.50	.70	.50	2,000	N	N	N	10	1,000	<1.0
JA0350	58 3 10	135 6 0	5.0	2.00	.70	.50	1,000	N	N	N	<10	700	<1.0
JA0351	58 3 13	135 6 20	3.0	1.50	.50	.50	700	N	N	N	20	500	1.0
JA0352	58 1 55	135 16 43	7.0	2.00	.70	1.00	1,000	N	N	N	15	700	2.0
JA0353	58 1 47	135 16 39	7.0	1.50	.30	.70	1,000	N	N	N	15	1,000	2.0
JA0354	58 1 48	135 16 32	7.0	3.00	1.00	1.00	1,000	N	N	N	20	500	1.5
JA0355	58 2 42	135 17 16	3.0	1.00	.20	.50	1,000	N	N	N	50	700	1.5
JA0356	58 6 43	135 20 42	5.0	1.50	.50	.70	1,500	N	N	N	30	500	<1.0

TABLE 3.--Spectrographic and chemical analyses of stream sediments from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s
JA0312	N	N	20	700	15	N	<5	<20	30	10	N	15	N	300
JA0313	N	N	30	70	100	50	N	<20	50	20	N	20	N	500
JA0314	N	N	50	30	200	30	N	N	15	100	N	20	N	500
JA0315	N	N	30	150	150	50	N	N	100	<10	N	30	N	700
JA0316	N	N	50	200	100	N	N	N	70	<10	N	30	N	500
JA0317	N	N	50	700	70	N	N	N	100	<10	N	30	N	700
JA0318	N	N	50	150	70	N	N	N	30	<10	N	30	N	500
JA0319	N	N	30	500	50	N	N	N	20	<10	N	30	N	500
JA0320	N	N	30	500	50	N	<5	<20	20	10	N	20	N	300
JA0321	N	N	30	100	70	50	<5	N	10	10	N	20	N	200
JA0322	N	N	30	500	100	N	N	N	20	10	N	30	N	700
JA0323	N	N	100	150	30	N	N	N	10	15	N	20	N	500
JA0324	N	N	20	70	15	N	N	N	7	10	N	15	N	300
JA0325	N	N	20	100	100	70	<5	<20	20	<10	N	20	N	150
JA0326	N	N	10	50	30	100	<5	<20	15	10	N	20	N	300
JA0327	N	N	20	100	70	70	<5	<20	20	20	N	15	N	200
JA0328	N	N	20	70	70	30	N	20	7	<10	N	20	N	300
JA0329	N	N	20	100	7	50	N	<20	7	10	N	30	N	300
JA0330	N	N	50	300	100	N	N	N	50	10	N	30	N	300
JA0331	N	N	30	150	70	30	N	20	30	<10	N	20	N	200
JA0332	N	N	50	300	100	70	N	<20	30	<10	N	30	N	300
JA0333	N	N	30	200	70	50	N	N	20	<10	N	30	N	200
JA0334	N	N	30	150	70	30	N	<20	30	10	N	20	N	300
JA0335	N	N	50	500	100	N	N	N	70	<10	N	30	N	700
JA0336	N	N	50	500	100	50	N	N	100	10	N	20	N	700
JA0337	N	N	30	50	150	N	N	N	15	100	N	15	N	300
JA0338	N	N	30	700	100	70	N	<20	50	30	N	20	N	300
JA0339	N	N	30	700	20	30	N	<20	50	20	N	20	N	200
JA0340	N	N	20	500	15	N	N	N	50	20	N	15	N	300
JA0341	N	N	20	700	10	50	N	<20	50	20	N	15	N	500
JA0342	N	N	20	100	50	20	N	N	50	10	N	20	N	200
JA0343	N	N	15	70	50	50	N	N	30	10	N	15	N	150
JA0344	N	N	70	700	20	70	N	N	70	20	N	20	N	500
JA0345	N	N	50	200	30	30	N	N	20	15	N	30	N	500
JA0346	N	N	20	500	5	N	N	N	50	15	N	20	N	500
JA0347	N	N	30	700	15	N	N	N	70	10	N	30	N	500
JA0348	N	N	20	1,000	20	N	N	N	70	15	N	15	N	500
JA0349	N	N	30	1,000	20	N	N	N	50	20	N	20	N	500
JA0350	N	N	20	500	20	N	N	N	30	10	N	15	N	300
JA0351	N	N	15	70	20	50	N	<20	20	70	N	15	N	300
JA0352	N	N	30	100	50	100	N	20	20	50	N	20	N	500
JA0353	N	N	20	50	50	100	<5	30	10	50	N	15	N	300
JA0354	N	N	30	150	70	50	<5	20	70	20	N	20	N	300
JA0355	N	N	15	70	50	50	N	<20	15	30	N	10	N	200
JA0356	N	N	20	70	10	30	N	<20	20	30	N	15	N	200

TABLE 3.--Spectrographic and chemical analyses of stream sediments from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	Hg-ppm inst	Te-ppm aa	As-ppm aa	Zn-ppm aa	Cd-ppm aa	Bi-ppm aa	Sb-ppm aa
JA0312	200	N	20	N	100	N	--	--	--	--	--	--	--	--
JA0313	200	N	30	N	150	N	--	--	--	--	--	--	--	--
JA0314	300	N	30	200	100	N	--	--	--	--	--	--	--	--
JA0315	300	N	20	N	100	N	--	--	--	--	--	--	--	--
JA0316	300	N	20	N	50	N	--	--	--	--	--	--	--	--
JA0317	200	N	20	N	50	N	--	--	--	--	--	--	--	--
JA0318	200	N	30	N	30	N	--	--	--	--	--	--	--	--
JA0319	150	N	20	N	30	N	--	--	--	--	--	--	--	--
JA0320	150	N	20	N	100	N	--	--	--	--	--	--	--	--
JA0321	150	N	30	N	100	N	--	--	--	--	--	--	--	--
JA0322	200	N	30	N	100	N	--	--	--	--	--	--	--	--
JA0323	150	N	20	N	150	N	--	--	--	--	--	--	--	--
JA0324	100	N	20	N	150	N	--	--	--	--	--	--	--	--
JA0325	150	N	30	500	150	N	--	--	--	--	--	--	--	--
JA0326	150	N	70	300	150	N	--	--	--	--	--	--	--	--
JA0327	200	N	30	N	100	N	--	--	--	--	--	--	--	--
JA0328	150	N	50	N	100	N	--	--	--	--	--	--	--	--
JA0329	200	N	50	N	100	N	--	--	--	--	--	--	--	--
JA0330	300	N	70	N	150	N	--	--	--	--	--	--	--	--
JA0331	200	N	30	N	100	N	--	--	--	--	--	--	--	--
JA0332	200	N	50	N	100	N	--	--	--	--	--	--	--	--
JA0333	150	N	50	N	100	N	--	--	--	--	--	--	--	--
JA0334	150	N	50	N	100	N	--	--	--	--	--	--	--	--
JA0335	200	N	20	N	30	N	--	--	--	--	--	--	--	--
JA0336	200	N	20	N	100	N	--	--	--	--	--	--	--	--
JA0337	200	N	30	300	100	N	--	--	--	--	--	--	--	--
JA0338	200	N	30	N	150	N	--	--	--	--	--	--	--	--
JA0339	150	N	20	N	150	N	--	--	--	--	--	--	--	--
JA0340	100	N	20	N	150	N	--	--	--	--	--	--	--	--
JA0341	150	N	20	N	150	N	--	--	--	--	--	--	--	--
JA0342	150	N	30	N	100	N	--	--	--	--	--	--	--	--
JA0343	150	N	20	N	100	N	--	--	--	--	--	--	--	--
JA0344	200	N	30	N	150	N	--	--	--	--	--	--	--	--
JA0345	200	N	30	N	150	N	--	--	--	--	--	--	--	--
JA0346	150	N	20	N	100	N	--	--	--	--	--	--	--	--
JA0347	200	N	20	N	150	N	--	--	--	--	--	--	--	--
JA0348	150	N	20	N	100	N	--	--	--	--	--	--	--	--
JA0349	150	N	50	N	100	N	--	--	--	--	--	--	--	--
JA0350	150	N	20	N	100	N	--	--	--	--	--	--	--	--
JA0351	100	N	20	N	150	N	--	--	--	--	--	--	--	--
JA0352	200	N	50	N	150	N	--	--	--	--	--	--	--	--
JA0353	200	N	70	N	150	N	--	--	--	--	--	--	--	--
JA0354	200	N	30	N	100	N	--	--	--	--	--	--	--	--
JA0355	150	N	30	N	150	N	--	--	--	--	--	--	--	--
JA0356	200	N	20	N	150	N	--	--	--	--	--	--	--	--

TABLE 3.--Spectrographic and chemical analyses of stream sediments from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
JA0357	58 6 58	135 20 25	5.0	1.50	.70	.70	1,000	N	N	N	50	700	1.0
JA0358	58 8 8	135 25 48	5.0	2.00	1.00	.50	700	N	N	N	50	300	1.0
JA0359	58 4 7	135 22 50	7.0	2.00	1.00	.70	1,500	N	N	N	15	700	2.0
JA0360	58 4 6	135 23 0	3.0	.70	.20	.50	3,000	N	N	N	10	700	2.0
JA0361	58 3 35	135 29 5	3.0	1.50	.50	1.00	1,500	<.5	N	N	<10	700	2.0
JA0362	58 0 18	135 29 12	5.0	2.00	.30	.70	700	N	N	N	30	500	1.0
JA0363	58 0 14	135 29 9	3.0	2.00	.70	1.00	1,000	N	N	N	10	700	<1.0
JA0364	58 4 17	135 44 6	5.0	2.00	.30	.70	1,000	N	N	N	20	700	<1.0
JA0365	58 3 3	135 46 58	10.0	3.00	2.00	1.00	2,000	N	N	N	N	500	<1.0
JA0366	58 3 5	135 47 0	10.0	3.00	2.00	1.00	1,500	N	N	N	10	700	<1.0
JA0367	58 1 36	135 45 8	7.0	2.00	2.00	1.00	2,000	N	N	N	20	700	1.0
JA0369	58 7 12	135 40 31	5.0	1.50	.30	1.00	1,500	N	N	N	20	500	1.0
JA0370	58 7 15	135 40 35	5.0	1.00	.30	1.00	1,000	N	N	N	20	500	1.0
JA0371	58 9 12	135 33 38	7.0	1.00	.50	1.00	>5,000	N	N	N	20	700	1.5
JA0372	58 9 14	135 33 43	7.0	1.50	.70	1.00	1,500	N	N	N	10	1,000	1.5
JA0373	58 9 10	135 32 5	7.0	1.50	.50	.70	1,000	N	N	N	50	700	1.0
JA0374	58 13 25	135 39 48	5.0	1.50	.30	1.00	1,500	N	N	N	30	300	1.0
JA0375	58 13 22	135 39 58	7.0	1.50	.50	>1.00	1,000	N	N	N	30	500	1.5
JA0376	58 12 11	135 45 2	3.0	1.50	1.00	.70	1,500	N	N	N	20	700	1.5
JA0380	58 44 13	135 18 22	5.0	3.00	5.00	.50	700	N	N	N	15	700	1.0
JA0381	58 33 0	135 10 41	3.0	2.00	7.00	.30	500	N	N	N	20	500	1.0
JA0382	58 32 39	135 10 40	5.0	2.00	2.00	.50	1,000	N	N	N	50	700	1.5
JA0383	58 38 8	135 13 28	5.0	2.00	.30	.30	500	N	N	N	70	700	1.0
JA0384	58 38 22	135 13 0	5.0	3.00	.50	.50	300	N	N	N	50	700	1.0
JA0385	58 38 11	135 11 9	5.0	3.00	.50	.70	2,000	N	N	N	50	1,500	1.5
JA0386	58 40 12	135 11 19	5.0	2.00	1.00	.70	1,500	N	N	N	20	1,000	1.0
JA0387	58 39 57	134 51 31	7.0	2.00	2.00	1.00	1,500	N	N	N	<10	1,000	1.0
JA0388	58 40 9	134 51 11	10.0	3.00	2.00	1.00	1,500	N	N	N	<10	1,500	<1.0
JA0389	58 38 17	134 54 30	15.0	1.50	1.00	1.00	1,500	N	N	N	<10	500	N
JA0390	58 38 19	134 54 25	7.0	2.00	2.00	.70	1,000	N	N	N	10	1,500	<1.0
JA0391	58 19 2	134 10 25	10.0	3.00	2.00	>1.00	3,000	N	N	N	20	1,500	1.0
JA0392	58 19 4	134 10 24	7.0	3.00	2.00	.70	1,500	N	N	N	15	1,000	1.0
JA0393	58 19 3	134 10 12	7.0	2.00	2.00	1.00	1,500	N	N	N	10	1,500	1.0
JA0394	58 19 11	134 12 55	5.0	1.50	1.50	>1.00	1,500	<.5	N	N	<10	2,000	1.0
JA0395	58 19 14	134 12 56	7.0	2.00	1.50	1.00	3,000	N	N	N	<10	1,500	<1.0
JA0396	58 20 20	134 14 19	5.0	2.00	1.50	1.00	1,500	<.5	N	N	15	2,000	<1.0
JA0397	58 20 22	134 14 15	5.0	3.00	2.00	.70	3,000	N	N	N	<10	1,500	<1.0
JA0398	58 21 29	134 16 52	7.0	2.00	2.00	1.00	2,000	N	N	N	10	2,000	1.0
JA0399	58 18 3	134 13 40	3.0	5.00	3.00	.70	1,000	N	N	N	<10	2,000	<1.0
JA0400	58 43 30	135 14 21	7.0	1.00	.50	1.00	1,000	<.5	N	N	70	>5,000	1.0
JA0401	58 49 42	135 1 52	7.0	2.00	.70	1.00	1,500	<.5	N	N	20	500	<1.0
JA0402	58 47 30	135 2 0	5.0	1.50	.50	.70	1,000	N	N	N	10	1,000	1.5
JA0403	58 25 15	134 28 56	7.0	3.00	.70	>1.00	1,000	N	N	N	10	1,500	1.5
JA0404	58 25 0	134 29 27	5.0	3.00	.70	1.00	700	<.5	N	N	10	1,500	1.5
JA0405	58 25 8	134 30 55	5.0	2.00	1.00	1.00	1,500	<.5	N	N	<10	2,000	1.5

TABLE 3.--Spectrographic and chemical analyses of stream sediments from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s
JA0357	N	N	15	200	20	50	N	N	20	30	N	15	N	300
JA0358	N	N	20	70	70	30	N	N	20	30	N	20	N	200
JA0359	N	N	20	150	20	100	5	30	50	30	N	15	N	500
JA0360	N	N	10	30	<5	150	N	50	5	30	N	5	N	200
JA0361	N	N	15	100	15	100	<5	50	15	20	N	10	N	300
JA0362	N	N	30	150	50	20	N	N	50	30	N	20	N	200
JA0363	N	N	15	70	20	N	N	N	15	20	N	20	N	500
JA0364	N	N	20	70	70	N	N	N	20	30	N	20	N	200
JA0365	N	N	30	100	50	30	N	<20	15	10	N	30	N	300
JA0366	N	N	30	100	20	30	N	<20	15	10	N	30	N	300
JA0367	N	N	5	50	<5	70	<5	20	5	10	N	15	N	500
JA0369	N	N	20	100	70	50	N	<20	20	20	N	15	N	200
JA0370	N	N	20	100	50	50	N	<20	20	20	N	15	N	200
JA0371	N	N	30	150	10	50	N	20	20	20	N	15	N	300
JA0372	N	N	20	500	20	50	N	20	20	20	N	15	N	300
JA0373	N	N	20	150	50	50	N	<20	50	30	N	20	N	300
JA0374	N	N	20	100	50	30	<5	<20	15	20	N	15	N	300
JA0375	N	N	30	100	100	50	N	20	50	20	N	15	N	300
JA0376	N	N	15	70	15	20	N	N	15	20	N	15	N	500
JA0380	N	N	20	100	50	50	<5	N	20	30	N	20	N	1,000
JA0381	N	N	10	50	20	30	N	N	15	20	N	15	N	1,000
JA0382	N	N	20	100	20	30	N	N	20	30	N	20	N	500
JA0383	N	N	15	100	70	30	N	N	30	30	N	15	N	100
JA0384	N	N	10	100	20	30	N	N	20	20	N	15	N	200
JA0385	N	N	30	200	100	50	<5	N	100	50	N	15	N	200
JA0386	N	N	20	200	20	50	N	N	20	20	N	15	N	500
JA0387	N	N	20	50	50	70	N	N	5	15	N	30	N	700
JA0388	N	N	20	50	15	150	N	<20	5	20	N	50	N	700
JA0389	N	N	20	150	70	100	N	N	10	15	N	30	N	300
JA0390	N	N	15	50	<5	30	<5	<20	7	20	N	20	N	700
JA0391	N	N	30	100	50	70	N	<20	15	30	N	30	N	500
JA0392	N	N	30	100	50	50	N	N	20	30	N	30	N	500
JA0393	N	N	20	70	30	100	<5	N	10	30	N	20	N	500
JA0394	N	N	20	70	100	100	N	20	15	70	N	20	N	500
JA0395	N	N	20	100	10	200	N	<20	15	20	N	50	N	500
JA0396	N	N	20	100	50	100	N	<20	15	20	N	20	N	500
JA0397	N	N	20	100	10	100	N	N	10	20	N	30	N	300
JA0398	N	N	20	100	20	150	<5	<20	10	20	N	30	N	500
JA0399	N	N	20	200	50	50	<5	20	20	10	N	30	N	500
JA0400	N	N	30	150	100	30	<5	N	20	15	N	20	N	700
JA0401	N	N	30	70	100	N	<5	N	20	70	N	20	N	500
JA0402	N	N	20	100	100	70	<5	<20	20	30	N	20	N	300
JA0403	N	N	30	100	10	50	N	20	30	10	N	15	N	700
JA0404	N	N	30	100	50	100	N	20	30	10	N	20	N	300
JA0405	N	N	20	150	20	70	N	<20	30	20	N	20	N	300

TABLE 3.--Spectrographic and chemical analyses of stream sediments from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	Hg-ppm inst	Te-ppm aa	As-ppm aa	Zn-ppm aa	Cd-ppm aa	Bi-ppm aa	Sb-ppm aa
JA0357	200	N	20	N	200	N	--	--	--	--	--	--	--	--
JA0358	200	N	30	N	100	N	--	--	--	--	--	--	--	--
JA0359	200	N	50	N	200	N	--	--	--	--	--	--	--	--
JA0360	70	N	50	N	200	N	--	--	--	--	--	--	--	--
JA0361	150	N	50	N	200	N	--	--	--	--	--	--	--	--
JA0362	200	N	30	N	150	N	--	--	--	--	--	--	--	--
JA0363	200	N	30	N	150	N	--	--	--	--	--	--	--	--
JA0364	200	N	30	N	200	N	--	--	--	--	--	--	--	--
JA0365	300	N	70	N	300	N	--	--	--	--	--	--	--	--
JA0366	300	N	70	N	500	N	--	--	--	--	--	--	--	--
JA0367	100	N	50	N	300	N	--	--	--	--	--	--	--	--
JA0369	200	N	20	N	150	N	--	--	--	--	--	--	--	--
JA0370	200	N	20	N	200	N	--	--	--	--	--	--	--	--
JA0371	200	N	30	N	200	N	--	--	--	--	--	--	--	--
JA0372	200	N	30	N	200	N	--	--	--	--	--	--	--	--
JA0373	200	N	30	N	150	N	--	--	--	--	--	--	--	--
JA0374	150	N	20	N	150	N	--	--	--	--	--	--	--	--
JA0375	150	N	50	N	200	N	--	--	--	--	--	--	--	--
JA0376	150	N	50	N	200	N	--	--	--	--	--	--	--	--
JA0380	200	N	30	N	150	N	--	--	--	--	--	--	--	--
JA0381	150	N	30	N	150	N	--	--	--	--	--	--	--	--
JA0382	300	N	30	N	150	N	--	--	--	--	--	--	--	--
JA0383	200	N	30	N	100	N	--	--	--	--	--	--	--	--
JA0384	200	N	20	N	150	N	--	--	--	--	--	--	--	--
JA0385	300	N	30	N	150	N	--	--	--	--	--	--	--	--
JA0386	300	N	50	N	150	N	--	--	--	--	--	--	--	--
JA0387	200	N	30	N	500	N	--	--	--	--	--	--	--	--
JA0388	200	N	70	N	>1,000	N	--	--	--	--	--	--	--	--
JA0389	500	N	20	<200	1,000	N	--	--	--	--	--	--	--	--
JA0390	150	N	50	N	70	N	--	--	--	--	--	--	--	--
JA0391	200	N	70	<200	1,000	N	--	--	--	--	--	--	--	--
JA0392	300	N	70	N	200	N	--	--	--	--	--	--	--	--
JA0393	300	N	50	N	300	N	--	--	--	--	--	--	--	--
JA0394	200	N	50	N	150	N	--	--	--	--	--	--	--	--
JA0395	200	N	70	<200	>1,000	N	--	--	--	--	--	--	--	--
JA0396	200	N	70	N	150	N	--	--	--	--	--	--	--	--
JA0397	200	N	70	<200	>1,000	N	--	--	--	--	--	--	--	--
JA0398	150	N	70	N	700	N	--	--	--	--	--	--	--	--
JA0399	200	N	30	N	100	N	--	--	--	--	--	--	--	--
JA0400	200	N	50	N	150	N	--	--	--	--	--	--	--	--
JA0401	300	N	50	N	200	N	--	--	--	--	--	--	--	--
JA0402	200	N	50	N	200	N	--	--	--	--	--	--	--	--
JA0403	100	N	30	N	150	N	--	--	--	--	--	--	--	--
JA0404	150	N	50	N	150	N	--	--	--	--	--	--	--	--
JA0405	200	N	50	N	150	N	--	--	--	--	--	--	--	--

TABLE 3.--Spectrographic and chemical analyses of stream sediments from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
JA0407	58 22 37	133 53 40	5.0	1.50	1.00	.70	700	N	N	N	<10	1,500	1.0
JA0408	58 22 30	133 53 45	10.0	2.00	1.00	1.00	1,500	N	N	N	N	700	1.0
JA0409	58 19 32	133 45 11	10.0	1.50	1.00	>1.00	2,000	N	N	N	<10	500	N
JA0410	58 19 26	133 45 9	5.0	1.00	1.00	.70	1,000	N	N	N	10	1,500	1.0
JA0411	58 25 10	133 57 7	3.0	1.50	.70	.50	1,000	N	N	N	10	1,500	1.0
JA0412	58 30 24	133 53 5	10.0	2.00	.70	1.00	1,000	N	N	N	10	1,000	<1.0
JA0413	58 2 23	133 56 6	3.0	2.00	1.00	.70	1,000	N	N	N	15	2,000	1.0
JA0501	58 43 47	134 51 35	3.0	2.00	2.00	.50	700	N	N	N	10	1,500	<1.0
JA0502	58 43 3	134 54 31	5.0	3.00	1.50	.50	1,000	<.5	N	N	15	1,500	N
JA0503	58 43 0	134 54 36	5.0	3.00	1.50	.70	1,500	N	N	N	10	1,500	N
JA0504	58 44 17	134 55 50	5.0	2.00	1.00	.30	1,000	N	N	N	15	700	N
JA0505	58 44 52	134 55 56	2.0	2.00	1.00	.20	700	N	N	N	<10	1,000	N
JA0506	58 45 11	134 55 42	3.0	1.50	1.00	.30	700	N	N	N	20	1,000	<1.0
JA0507	58 46 22	134 55 50	3.0	2.00	1.50	.50	700	N	N	N	10	700	<1.0
JA0508	58 48 58	134 53 18	3.0	1.50	1.50	.50	700	N	N	N	<10	700	N
JA0509	58 48 13	134 50 35	3.0	1.50	1.50	.50	1,000	N	N	N	<10	700	<1.0
JA0510	58 48 18	134 49 9	2.0	1.50	.50	.20	500	N	N	N	<10	1,000	N
JA0511	58 47 40	134 49 10	3.0	1.50	1.00	.30	500	N	N	N	<10	1,000	N
JA0512	58 47 58	134 47 44	3.0	1.50	1.00	.20	500	N	N	N	<10	1,000	<1.0
JA0513	58 46 7	134 46 15	3.0	1.50	1.00	.30	500	N	N	N	<10	700	N
JA0514	58 47 14	134 46 1	2.0	1.00	.70	.20	300	N	N	N	10	700	<1.0
JA0515	58 45 45	134 43 0	3.0	1.50	1.00	.30	700	N	N	N	10	1,000	<1.0
JA0516	58 45 37	134 45 14	3.0	1.50	1.00	.50	700	N	N	N	10	1,000	<1.0
JA0517	58 46 43	134 38 49	5.0	1.50	1.00	.50	700	N	N	N	<10	500	N
JA0518	58 50 12	134 49 52	3.0	1.50	1.50	.30	700	N	N	N	<10	700	N
JA0519	58 50 37	134 49 11	2.0	1.00	1.00	.20	500	N	N	N	<10	1,000	N
JA0520	58 51 18	134 47 35	3.0	1.00	1.50	.30	700	N	N	N	<10	700	<1.0
JA0521	58 51 33	134 46 1	2.0	1.00	1.00	.30	700	N	N	N	<10	700	1.0
JA0522	58 51 41	134 45 13	2.0	1.00	1.00	.50	300	N	N	N	<10	1,000	<1.0
JA0523	58 51 41	134 43 30	3.0	1.00	1.00	1.00	500	N	N	N	<10	500	N
JA0524	58 51 7	134 40 29	2.0	1.50	1.00	.20	300	N	N	N	<10	500	N
JA0525	58 50 33	134 41 56	2.0	1.50	1.50	.30	500	N	N	N	<10	500	N
JA0526	58 51 9	134 45 0	5.0	1.50	1.00	.70	1,000	N	N	N	<10	700	N
JA0527	58 51 9	134 44 25	3.0	1.50	1.00	.20	700	N	N	N	<10	700	N
JA0528	58 50 38	134 47 18	5.0	1.50	1.00	.30	500	N	N	N	<10	700	N
JA0530	58 50 45	134 54 23	2.0	1.50	1.00	.20	500	N	N	N	<10	1,000	N
JA0531	58 52 20	134 54 32	5.0	1.00	1.00	.30	1,000	N	N	N	15	1,500	N
JA0532	58 54 38	134 54 10	2.0	.70	1.00	.15	500	N	N	N	<10	1,000	N
JA0533	58 55 36	134 51 0	2.0	1.00	1.00	.15	500	N	N	N	10	500	N
JA0534	58 55 30	134 50 19	2.0	1.00	1.00	.20	700	N	N	N	15	1,000	N
JA0535	58 55 36	134 48 22	3.0	.70	1.50	.30	700	N	N	N	15	1,500	1.0
JA0536	58 55 34	134 47 10	2.0	.70	1.50	.20	500	N	N	N	10	1,000	1.0
JA0537	58 55 58	134 45 5	3.0	1.50	2.00	.70	500	N	N	N	<10	500	1.0
JA0538	58 56 23	134 48 14	3.0	1.50	2.00	.20	700	N	N	N	10	1,000	1.0
JA0539	58 56 28	134 51 28	2.0	.50	1.00	.30	1,000	N	N	N	10	1,000	1.0

TABLE 3.--Spectrographic and chemical analyses of stream sediments from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s
JA0407	N	N	10	20	<5	100	N	<20	<5	30	N	20	N	700
JA0408	N	N	15	70	7	150	<5	<20	10	30	N	20	N	500
JA0409	N	N	10	50	<5	30	N	<20	<5	10	N	30	N	500
JA0410	N	N	<5	20	7	100	<5	<20	<5	30	N	15	N	500
JA0411	N	N	20	100	20	50	5	<20	30	50	N	15	N	300
JA0412	N	N	15	1,000	20	150	N	<20	50	30	N	20	N	300
JA0413	N	N	15	300	50	N	N	<20	30	10	N	30	N	300
JA0501	N	N	10	50	50	50	N	N	70	<10	N	20	N	200
JA0502	N	N	20	100	70	70	N	N	100	10	N	20	N	200
JA0503	N	N	20	100	70	50	N	N	100	10	N	15	N	300
JA0504	N	N	30	70	150	30	N	N	50	<10	N	15	N	200
JA0505	N	N	20	50	50	70	N	N	30	10	N	10	N	200
JA0506	N	N	20	50	50	30	N	N	70	15	N	10	N	150
JA0507	N	N	15	150	5	50	N	N	50	<10	N	15	N	200
JA0508	N	N	10	15	N	N	N	N	N	<10	N	15	N	500
JA0509	N	N	10	20	<5	50	N	N	N	<10	N	10	N	500
JA0510	N	N	15	70	10	20	N	N	15	<10	N	7	N	150
JA0511	N	N	15	50	<5	50	N	N	N	<10	N	15	N	500
JA0512	N	N	15	30	10	30	N	N	10	10	N	10	N	300
JA0513	N	N	15	30	15	70	N	N	20	10	N	10	N	200
JA0514	N	N	7	20	7	N	N	N	<5	<10	N	7	N	100
JA0515	N	N	15	70	30	50	N	N	30	10	N	10	N	200
JA0516	N	N	15	100	20	30	N	N	50	<10	N	15	N	200
JA0517	N	N	15	150	5	70	N	N	70	<10	N	15	N	200
JA0518	N	N	10	15	<5	50	N	N	N	<10	N	20	N	500
JA0519	N	N	7	10	N	100	N	N	N	10	N	10	N	300
JA0520	N	N	7	10	<5	500	N	N	N	10	N	15	N	300
JA0521	N	N	7	10	<5	100	N	N	N	15	N	10	N	300
JA0522	N	N	7	30	<5	100	N	N	N	50	N	10	N	500
JA0523	N	N	10	20	N	70	N	N	N	10	N	10	N	300
JA0524	N	N	10	30	5	N	N	N	N	<10	N	10	N	300
JA0525	N	N	10	15	N	50	N	N	N	<10	N	10	N	300
JA0526	N	N	15	50	<5	100	N	N	N	<10	N	15	N	500
JA0527	N	N	7	20	<5	150	N	N	N	20	N	15	N	300
JA0528	N	N	10	15	<5	50	N	N	N	<10	N	10	N	700
JA0530	N	N	7	10	5	50	<5	N	N	30	N	10	N	500
JA0531	N	N	10	100	5	50	N	N	50	<10	N	10	N	300
JA0532	N	N	7	10	N	50	N	N	N	10	N	7	N	200
JA0533	N	N	7	10	<5	50	N	N	N	15	N	5	N	200
JA0534	N	N	10	50	7	70	N	N	30	10	N	10	N	500
JA0535	N	N	10	70	7	100	N	<20	10	15	N	15	N	500
JA0536	N	N	10	30	5	100	<5	<20	7	50	N	10	N	700
JA0537	N	N	15	50	5	N	N	N	7	10	N	15	N	500
JA0538	N	N	10	20	5	200	N	N	N	50	N	20	N	700
JA0539	N	N	10	30	20	200	N	N	15	10	N	10	N	300

TABLE 3.--Spectrographic and chemical analyses of stream sediments from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	Hg-ppm inst	Te-ppm aa	As-ppm aa	Zn-ppm aa	Cd-ppm aa	Bi-ppm aa	Sb-ppm aa
JA0407	200	N	50	N	150	N	--	--	--	--	--	--	--	--
JA0408	300	N	70	N	500	N	--	--	--	--	--	--	--	--
JA0409	300	N	50	<200	200	N	--	--	--	--	--	--	--	--
JA0410	200	N	50	N	300	N	--	--	--	--	--	--	--	--
JA0411	100	N	30	N	150	N	--	--	--	--	--	--	--	--
JA0412	200	N	70	N	500	N	--	--	--	--	--	--	--	--
JA0413	200	N	50	N	100	N	--	--	--	--	--	--	--	--
JA0501	200	N	20	N	300	N	--	--	--	--	--	--	--	--
JA0502	200	N	30	N	700	N	--	--	--	--	--	--	--	--
JA0503	200	N	20	N	1,000	N	--	--	--	--	--	--	--	--
JA0504	200	N	10	N	70	N	--	--	--	--	--	--	--	--
JA0505	150	N	10	<200	70	N	--	--	--	--	--	--	--	--
JA0506	150	N	10	N	100	N	--	--	--	--	--	--	--	--
JA0507	150	N	20	<200	200	N	--	--	--	--	--	--	--	--
JA0508	100	N	20	N	>1,000	N	--	--	--	--	--	--	--	--
JA0509	100	N	15	N	1,000	N	--	--	--	--	--	--	--	--
JA0510	70	N	15	N	150	N	--	--	--	--	--	--	--	--
JA0511	100	N	15	N	700	N	--	--	--	--	--	--	--	--
JA0512	100	N	10	N	200	N	--	--	--	--	--	--	--	--
JA0513	100	N	20	N	500	N	--	--	--	--	--	--	--	--
JA0514	100	N	<10	N	200	N	--	--	--	--	--	--	--	--
JA0515	150	N	20	N	300	N	--	--	--	--	--	--	--	--
JA0516	200	N	30	N	500	N	--	--	--	--	--	--	--	--
JA0517	200	N	30	N	150	N	--	--	--	--	--	--	--	--
JA0518	150	N	20	N	500	N	--	--	--	--	--	--	--	--
JA0519	70	N	20	N	1,000	N	--	--	--	--	--	--	--	--
JA0520	100	N	50	N	1,000	N	--	--	--	--	--	--	--	--
JA0521	70	N	15	N	300	N	--	--	--	--	--	--	--	--
JA0522	50	N	30	N	500	N	--	--	--	--	--	--	--	--
JA0523	150	N	15	N	500	N	--	--	--	--	--	--	--	--
JA0524	100	N	10	N	700	N	--	--	--	--	--	--	--	--
JA0525	100	N	15	N	>1,000	N	--	--	--	--	--	--	--	--
JA0526	150	N	20	N	1,000	N	--	--	--	--	--	--	--	--
JA0527	150	N	30	N	1,000	N	--	--	--	--	--	--	--	--
JA0528	100	N	15	N	500	N	--	--	--	--	--	--	--	--
JA0530	100	N	10	N	500	N	--	--	--	--	--	--	--	--
JA0531	200	N	20	N	1,000	N	--	--	--	--	--	--	--	--
JA0532	50	N	10	N	200	N	--	--	--	--	--	--	--	--
JA0533	50	N	10	N	300	N	--	--	--	--	--	--	--	--
JA0534	70	N	15	N	200	N	--	--	--	--	--	--	--	--
JA0535	150	N	50	N	500	N	--	--	--	--	--	--	--	--
JA0536	50	N	70	N	150	N	--	--	--	--	--	--	--	--
JA0537	150	N	30	N	200	N	--	--	--	--	--	--	--	--
JA0538	70	N	70	200	500	N	--	--	--	--	--	--	--	--
JA0539	70	N	50	N	500	N	--	--	--	--	--	--	--	--

TABLE 3.--Spectrographic and chemical analyses of stream sediments from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
JA0540	58 56 29	134 52 59	2.0	.70	1.00	.30	500	N	N	N	10	1,000	1.0
JA0541	58 57 12	134 57 0	3.0	1.50	1.50	.50	700	N	N	N	10	1,000	1.0
JA0542	58 57 30	134 55 27	3.0	1.00	1.00	.20	300	N	N	N	<10	1,000	<1.0
JA0543	58 57 14	134 57 11	3.0	1.50	1.50	.50	700	N	N	N	<10	1,000	<1.0
JA0544	58 57 37	134 55 38	5.0	2.00	2.00	.70	700	N	N	N	<10	1,000	1.0
JA0545	58 58 0	134 57 46	3.0	1.50	2.00	.50	500	N	N	N	<10	1,000	1.0
JA0546	58 58 30	134 56 51	3.0	1.50	2.00	.50	700	N	N	N	10	1,000	1.0
JA0547	58 58 55	134 58 4	5.0	2.00	2.00	.50	700	.5	N	N	10	1,000	<1.0
JA0548	58 59 3	134 56 55	5.0	1.50	2.00	.50	700	N	N	N	<10	700	<1.0
JA0549	58 55 36	134 56 23	2.0	1.00	1.50	.50	500	N	N	N	10	1,000	<1.0
JA0550	58 59 29	134 58 9	5.0	2.00	1.50	.70	500	N	N	N	10	1,000	<1.0
JA0551	59 0 25	134 52 56	5.0	1.50	2.00	.30	500	N	N	N	10	700	<1.0
JA0552	58 55 25	134 56 26	5.0	1.00	1.00	.50	300	N	N	N	<10	700	<1.0
JA0553	59 0 14	134 52 55	2.0	1.00	1.00	.20	300	<.5	N	N	10	700	1.5
JA0554	58 54 0	134 56 11	5.0	1.50	1.50	.30	500	N	N	N	<10	700	<1.0
JA0555	59 1 42	134 56 3	3.0	2.00	2.00	.30	700	.7	N	N	15	1,000	1.0
JA0556	58 10 50	135 59 16	5.0	1.50	1.00	.30	700	N	N	N	10	500	<1.0
JA0557	58 10 6	135 58 9	3.0	1.00	1.00	.30	700	N	N	N	10	300	1.0
JA0558	58 8 55	135 55 3	5.0	2.00	1.50	.30	1,000	N	N	N	10	300	<1.0
JA0559	58 8 50	135 54 50	5.0	1.50	1.00	.30	700	N	N	N	<10	300	<1.0
JA0560	58 7 23	135 51 51	5.0	2.00	1.00	.50	700	N	N	N	50	300	<1.0
JA0561	58 8 38	135 53 11	5.0	2.00	1.00	.50	700	N	N	N	50	300	1.0
JA0562	58 6 27	135 56 20	5.0	2.00	1.00	.30	1,000	N	N	N	<10	300	<1.0
JA0563	58 5 20	135 51 47	7.0	2.00	1.50	.30	1,000	N	N	N	<10	300	<1.0
JA0564	58 11 22	135 58 12	3.0	1.50	.50	.20	700	<.5	N	N	50	300	<1.0
JA0565	58 5 8	135 59 4	5.0	2.00	2.00	.50	700	<.5	N	N	10	1,000	<1.0
JA0566	58 12 31	135 58 1	3.0	1.00	.50	.15	1,500	N	N	N	30	300	<1.0
JA0567	58 11 8	135 58 19	5.0	2.00	1.00	.50	1,000	N	N	N	30	300	<1.0
JA0568	58 16 8	135 49 54	5.0	2.00	1.00	.20	500	<.5	N	N	50	300	<1.0
JA0569	58 14 17	135 52 50	5.0	1.50	.10	.20	500	N	N	N	30	200	N
JA0570	58 15 59	135 46 20	5.0	1.50	1.00	.30	1,000	N	N	N	50	500	1.0
JA0571	58 16 18	135 46 39	5.0	1.50	1.00	.30	700	N	N	N	70	300	1.0
JA0572	58 9 12	135 41 59	7.0	1.50	.50	.70	1,000	N	N	N	50	300	1.5
JA0573	58 12 29	135 47 6	3.0	1.00	.70	.30	2,000	N	N	N	50	500	1.0
JA0574	58 9 40	135 41 51	5.0	1.00	.20	.70	1,500	N	N	N	50	300	1.5
JA0575	58 12 29	135 47 12	5.0	1.50	.70	.30	1,000	N	N	N	30	500	1.0
JA0576	58 0 20	135 55 40	7.0	2.00	1.00	.70	1,000	N	N	N	10	100	<1.0
JA0577	58 0 7	135 47 11	7.0	1.50	1.00	.30	1,500	N	N	N	10	300	1.0
JA0578	58 1 12	135 59 15	5.0	1.50	1.00	.30	700	N	N	N	50	300	N
JA0579	58 4 16	135 53 58	2.0	2.00	1.50	.15	500	N	N	N	15	200	<1.0
JA0580	58 14 0	135 16 24	5.0	2.00	1.00	.30	700	N	N	N	30	300	<1.0
JA0581	58 4 18	135 54 1	5.0	2.00	1.50	.30	500	N	N	N	20	500	<1.0
JA0582	58 16 24	135 20 19	5.0	1.50	.50	.30	700	<.5	N	N	50	300	1.0
JA0583	58 14 12	135 14 9	3.0	1.50	.30	.30	500	<.5	N	N	30	200	<1.0
JA0584	58 21 17	135 24 26	5.0	2.00	.70	.30	300	<.5	N	N	50	500	<1.0

TABLE 3.--Spectrographic and chemical analyses of stream sediments from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s
JA0540	N	N	10	50	5	100	N	N	7	15	N	15	N	500
JA0541	N	N	10	20	<5	150	N	N	N	10	N	15	N	500
JA0542	N	N	7	50	<5	N	N	N	10	50	N	10	N	500
JA0543	N	N	15	20	<5	200	N	N	N	20	N	20	N	500
JA0544	N	N	20	100	30	50	N	N	20	15	N	20	N	500
JA0545	N	N	15	50	<5	150	N	N	15	15	N	20	N	500
JA0546	N	N	15	100	15	150	N	N	30	15	N	20	N	500
JA0547	N	N	15	20	10	150	N	N	<5	20	N	20	N	500
JA0548	N	N	20	500	7	200	N	<20	200	10	N	20	N	500
JA0549	N	N	10	20	7	150	10	<20	N	15	N	20	N	500
JA0550	N	N	20	70	5	100	N	<20	20	20	N	30	N	700
JA0551	N	N	15	50	15	150	N	<20	15	20	N	10	N	300
JA0552	N	N	10	20	5	150	N	20	N	30	N	15	N	500
JA0553	N	N	10	50	10	50	<5	N	20	30	N	10	N	200
JA0554	N	N	15	100	7	100	5	<20	30	20	N	20	N	300
JA0555	N	N	10	150	20	70	7	<20	50	30	N	15	N	200
JA0556	N	N	10	30	7	30	N	<20	10	20	N	15	N	200
JA0557	N	N	10	20	5	30	N	<20	<5	20	N	10	N	300
JA0558	N	N	20	70	5	100	N	<20	15	10	N	20	N	300
JA0559	N	N	15	50	10	N	N	<20	15	<10	N	20	N	300
JA0560	N	N	30	150	30	N	N	<20	30	20	N	20	N	200
JA0561	N	N	30	150	30	30	N	20	30	20	N	20	N	200
JA0562	N	N	20	100	15	70	N	<20	20	10	N	30	N	200
JA0563	N	N	30	100	10	70	N	<20	20	10	N	30	N	300
JA0564	N	N	20	50	30	N	N	N	20	30	N	20	N	100
JA0565	N	N	30	100	30	N	7	N	50	10	N	20	N	200
JA0566	N	N	20	50	30	N	N	N	20	20	N	15	N	200
JA0567	N	N	30	100	30	50	N	<20	15	20	N	20	N	200
JA0568	N	N	20	100	50	N	N	N	20	30	N	15	N	150
JA0569	N	N	15	100	30	N	N	N	20	15	N	15	N	<100
JA0570	N	N	20	100	50	<20	N	N	50	20	N	20	N	300
JA0571	N	N	20	100	50	30	N	N	50	30	N	20	N	500
JA0572	N	N	50	150	50	50	N	20	70	10	N	20	N	200
JA0573	N	N	20	70	20	N	N	N	30	20	N	15	N	300
JA0574	N	N	20	30	20	N	N	20	20	<10	N	20	N	<100
JA0575	N	N	30	100	20	N	N	N	30	20	N	15	N	200
JA0576	N	N	50	150	50	N	N	N	50	15	N	30	N	200
JA0577	N	N	30	100	20	100	N	<20	20	20	N	20	N	200
JA0578	N	N	20	50	10	N	N	N	15	10	N	20	N	200
JA0579	N	N	15	30	50	N	N	N	15	70	N	15	N	300
JA0580	N	N	20	100	100	50	N	N	50	30	N	20	N	300
JA0581	N	N	20	100	30	N	<5	N	30	15	N	20	N	300
JA0582	N	N	20	100	50	N	N	N	50	20	N	20	N	200
JA0583	N	N	20	100	50	N	N	N	50	30	N	15	N	100
JA0584	N	N	20	150	30	70	<5	N	70	20	N	20	N	<100

TABLE 3.--Spectrographic and chemical analyses of stream sediments from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	Hg-ppm inst	Te-ppm aa	As-ppm aa	Zn-ppm aa	Cd-ppm aa	Bi-ppm aa	Sb-ppm aa
JA0540	70	N	50	N	500	N	--	--	--	--	--	--	--	--
JA0541	100	N	30	N	300	N	--	--	--	--	--	--	--	--
JA0542	70	N	20	N	150	N	--	--	--	--	--	--	--	--
JA0543	100	N	50	N	1,000	N	--	--	--	--	--	--	--	--
JA0544	100	N	20	N	150	N	--	--	--	--	--	--	--	--
JA0545	100	N	30	N	150	N	--	--	--	--	--	--	--	--
JA0546	100	N	50	N	200	N	--	--	--	--	--	--	--	--
JA0547	100	N	50	<200	150	N	--	--	--	--	--	--	--	--
JA0548	150	N	50	N	300	N	--	--	--	--	--	--	--	--
JA0549	70	N	50	N	500	N	--	--	--	--	--	--	--	--
JA0550	100	N	50	<200	150	N	--	--	--	--	--	--	--	--
JA0551	100	N	50	N	1,000	N	--	--	--	--	--	--	--	--
JA0552	70	N	50	N	200	N	--	--	--	--	--	--	--	--
JA0553	100	N	20	N	150	N	--	--	--	--	--	--	--	--
JA0554	100	N	50	N	150	N	--	--	--	--	--	--	--	--
JA0555	200	N	50	N	150	N	--	--	--	--	--	--	--	--
JA0556	100	N	20	N	150	N	--	--	--	--	--	--	--	--
JA0557	100	N	30	N	500	N	--	--	--	--	--	--	--	--
JA0558	150	N	50	N	200	N	--	--	--	--	--	--	--	--
JA0559	100	N	20	N	100	N	--	--	--	--	--	--	--	--
JA0560	100	N	30	N	150	N	--	--	--	--	--	--	--	--
JA0561	150	N	50	N	100	N	--	--	--	--	--	--	--	--
JA0562	150	N	70	N	300	N	--	--	--	--	--	--	--	--
JA0563	100	N	50	N	300	N	--	--	--	--	--	--	--	--
JA0564	100	N	30	N	70	N	--	--	--	--	--	--	--	--
JA0565	150	N	30	<200	70	N	--	--	--	--	--	--	--	--
JA0566	100	N	20	N	70	N	--	--	--	--	--	--	--	--
JA0567	100	N	30	N	100	N	--	--	--	--	--	--	--	--
JA0568	100	N	20	N	70	N	--	--	--	--	--	--	--	--
JA0569	100	N	20	N	70	N	--	--	--	--	--	--	--	--
JA0570	150	N	20	N	100	N	--	--	--	--	--	--	--	--
JA0571	150	N	30	N	150	N	--	--	--	--	--	--	--	--
JA0572	150	N	30	N	100	N	--	--	--	--	--	--	--	--
JA0573	100	N	20	N	100	N	--	--	--	--	--	--	--	--
JA0574	100	N	30	N	150	N	--	--	--	--	--	--	--	--
JA0575	100	N	20	N	100	N	--	--	--	--	--	--	--	--
JA0576	200	N	50	N	100	N	--	--	--	--	--	--	--	--
JA0577	150	N	70	N	100	N	--	--	--	--	--	--	--	--
JA0578	150	N	30	N	100	N	--	--	--	--	--	--	--	--
JA0579	100	N	20	N	50	N	--	--	--	--	--	--	--	--
JA0580	100	N	20	N	100	N	--	--	--	--	--	--	--	--
JA0581	150	N	30	N	100	N	--	--	--	--	--	--	--	--
JA0582	150	N	20	N	150	N	--	--	--	--	--	--	--	--
JA0583	100	N	15	N	100	N	--	--	--	--	--	--	--	--
JA0584	150	N	20	N	100	N	--	--	--	--	--	--	--	--

TABLE 3.--Spectrographic and chemical analyses of stream sediments from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
JA0585	58 18 40	135 21 43	5.0	2.00	.10	.30	200	<.5	N	N	50	300	1.0
JA0586	58 22 50	135 25 21	5.0	1.50	.15	.30	200	<.5	N	N	50	300	<1.0
JA0587	58 18 30	135 21 50	5.0	1.50	.30	.50	500	<.5	N	N	70	300	1.0
JA0588	58 12 53	133 25 25	3.0	.50	.70	.20	500	N	N	N	10	500	2.0
JA0589	58 12 0	133 25 20	5.0	2.00	3.00	.50	500	.5	N	N	10	2,000	1.0
JA0590	58 12 0	133 28 50	2.0	1.00	1.50	.20	500	N	N	N	<10	1,500	1.0
JA0591	58 12 33	133 29 54	2.0	1.00	.70	.20	300	N	N	N	15	1,000	1.5
JA0592	58 11 44	133 31 31	5.0	2.00	1.50	.30	500	N	N	N	<10	2,000	N
JA0593	58 12 42	133 32 29	7.0	5.00	2.00	.50	1,000	<.5	N	N	<10	2,000	<1.0
JA0594	58 10 28	133 35 31	10.0	3.00	1.00	.70	1,000	N	N	N	<10	500	<1.0
JA0595	58 18 0	133 28 40	7.0	.50	1.00	.30	300	N	N	N	10	700	1.0
JA0596	58 18 6	133 31 40	5.0	.50	1.00	.30	700	N	N	N	10	500	1.0
JA0597	58 17 2	133 31 16	5.0	1.50	1.50	.50	700	N	N	N	<10	500	1.0
JA0598	58 17 8	133 32 46	10.0	1.00	1.00	.50	1,000	N	N	N	<10	700	<1.0
JA0599	58 19 19	133 36 18	5.0	1.50	1.50	.50	1,000	N	N	N	<10	500	<1.0
JA0600	58 18 7	133 38 40	7.0	.70	1.00	.50	700	N	N	N	<10	1,000	1.0
JA0601	58 16 43	133 38 16	5.0	1.00	1.50	.30	500	N	N	N	10	1,000	1.0
JA0602	58 14 13	133 41 27	15.0	1.50	1.50	.70	1,000	N	N	N	10	1,000	<1.0
JA0603	58 15 33	133 46 26	3.0	1.00	1.00	.30	200	N	N	N	10	700	<1.0
JA0604	58 14 32	133 46 30	10.0	.50	1.00	.50	500	N	N	N	<10	700	1.0
JA0605	58 9 8	133 15 30	7.0	1.00	2.00	.30	500	N	N	N	<10	1,500	1.0
JA0606	58 14 34	133 46 40	20.0	.70	1.00	.50	700	N	N	N	<10	1,000	<1.0
JA0607	58 11 23	133 17 49	5.0	1.50	1.50	.50	700	N	N	N	20	1,000	1.0
JA0608	58 8 49	133 11 59	7.0	2.00	1.50	.50	700	N	N	N	10	2,000	<1.0
JA0609	58 8 37	133 12 4	5.0	1.50	1.50	.50	700	N	N	N	<10	1,500	<1.0
JA0610	58 9 41	133 21 21	5.0	2.00	1.50	.70	1,000	N	N	N	15	700	1.0
JA0611	58 12 42	133 21 35	3.0	1.00	1.00	.30	700	N	N	N	50	1,000	1.5
JA0612	58 8 10	133 23 40	5.0	1.50	2.00	.70	1,000	N	N	N	10	1,500	1.0
JA0613	58 8 15	133 20 59	7.0	2.00	2.00	.70	1,000	N	N	N	<10	1,000	<1.0
JA0614	58 7 21	133 25 52	10.0	1.50	2.00	.30	1,000	N	N	N	<10	1,500	1.0
JA0615	58 7 37	133 22 46	5.0	1.50	2.00	.50	1,000	N	N	N	<10	1,000	1.0
JA0616	58 5 40	133 27 38	5.0	1.50	1.50	.50	700	N	N	N	10	1,000	<1.0
JA0617	58 5 55	133 25 44	5.0	2.00	2.00	.50	500	N	N	N	<10	700	<1.0
JA0618	58 1 48	133 29 51	10.0	1.50	1.00	.50	700	N	N	N	<10	700	<1.0
JA0619	58 3 44	133 31 51	7.0	1.50	1.50	.50	700	N	N	N	<10	1,000	1.0
JA0620	58 1 46	133 29 59	3.0	1.00	1.00	.50	1,000	N	N	N	15	1,000	1.5
JA0621	58 2 59	133 34 1	5.0	1.00	1.50	.50	1,000	N	N	N	<10	1,000	1.0
JA0622	58 1 30	133 34 20	5.0	2.00	1.50	.30	700	<.5	N	N	10	1,000	1.0
JA0623	58 0 59	133 35 13	5.0	1.50	1.50	.50	700	N	N	N	<10	1,000	1.0
JA0624	58 1 44	133 37 38	7.0	1.50	1.00	.50	500	N	N	N	<10	1,500	<1.0
JA0625	58 0 42	133 36 20	5.0	2.00	1.50	.50	700	N	N	N	<10	1,000	<1.0
JA0626	58 0 28	133 39 40	5.0	1.50	1.50	.50	700	N	N	N	10	1,000	1.0
JA0627	58 1 22	133 44 28	7.0	2.00	1.50	.50	1,000	N	N	N	<10	500	N
JA0628	58 0 50	133 43 42	5.0	2.00	1.00	.50	1,000	N	N	N	10	500	<1.0
JA0630	58 1 0	133 43 59	5.0	2.00	1.00	.50	1,000	N	N	N	10	700	N

TABLE 3.--Spectrographic and chemical analyses of stream sediments from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s
JA0585	N	N	20	100	30	70	N	N	50	30	N	20	N	<100
JA0586	N	N	20	100	30	N	N	N	50	20	N	20	N	<100
JA0587	N	N	20	100	30	100	N	N	50	20	N	20	N	150
JA0588	N	N	<5	20	5	200	N	N	N	30	N	10	<10	300
JA0589	N	N	20	70	100	150	N	<20	50	10	N	10	N	300
JA0590	N	N	10	50	10	50	N	N	20	15	N	15	N	300
JA0591	N	N	10	50	7	100	<5	N	15	15	N	10	N	200
JA0592	N	N	15	100	20	70	5	N	20	50	N	10	N	300
JA0593	N	N	70	500	150	20	N	N	100	<10	N	20	N	300
JA0594	N	N	30	200	30	30	N	N	30	20	N	20	N	200
JA0595	N	N	7	70	<5	200	N	20	N	30	N	10	<10	300
JA0596	N	N	10	30	5	100	N	20	N	15	N	10	N	300
JA0597	N	N	20	150	10	100	N	<20	30	15	N	20	N	500
JA0598	N	N	20	50	7	300	N	20	N	20	N	20	N	500
JA0599	N	N	15	50	10	200	N	N	N	20	N	20	N	500
JA0600	N	N	10	20	7	150	<5	<20	N	50	N	10	N	500
JA0601	N	N	15	30	10	70	N	20	N	50	N	15	N	700
JA0602	N	N	30	50	7	50	N	20	10	20	N	20	N	700
JA0603	N	N	10	20	<5	N	15	<20	N	50	N	10	N	500
JA0604	N	N	20	50	15	200	N	20	5	10	N	10	N	700
JA0605	N	N	20	30	15	150	N	N	7	15	N	10	N	1,000
JA0606	N	N	20	50	10	200	N	<20	<5	10	N	10	N	700
JA0607	N	N	20	70	20	200	N	<20	30	20	N	15	N	500
JA0608	N	N	50	150	30	100	N	N	30	10	N	15	N	700
JA0609	N	N	30	70	10	150	N	N	20	15	N	15	N	700
JA0610	N	N	30	150	30	100	N	20	70	20	N	20	N	500
JA0611	N	N	15	100	20	100	N	<20	50	10	N	15	N	200
JA0612	N	N	20	70	20	50	N	<20	20	10	N	20	N	300
JA0613	N	N	20	50	10	70	N	<20	5	20	N	20	N	700
JA0614	N	N	20	100	10	300	N	<20	20	50	N	20	N	700
JA0615	N	N	20	30	7	100	N	N	10	20	N	20	N	1,000
JA0616	N	N	15	50	20	100	N	<20	5	30	N	20	N	700
JA0617	N	N	15	20	20	50	N	N	N	20	N	20	N	500
JA0618	N	N	20	30	10	100	150	<20	5	20	N	15	N	200
JA0619	N	N	15	50	30	100	N	<20	5	20	N	20	N	500
JA0620	N	N	20	30	10	200	70	<20	15	30	N	15	N	500
JA0621	N	N	10	10	5	200	N	<20	N	20	N	10	N	700
JA0622	N	N	20	50	15	150	<5	<20	10	50	N	15	N	700
JA0623	N	N	20	30	<5	200	N	<20	10	20	N	20	N	500
JA0624	N	N	20	30	5	200	7	<20	<5	50	N	20	N	500
JA0625	N	N	20	70	10	<20	<5	<20	15	30	N	15	N	500
JA0626	N	N	20	100	7	70	N	<20	15	20	N	15	N	700
JA0627	N	N	70	150	50	100	N	N	30	15	N	20	N	300
JA0628	N	N	50	100	30	N	N	N	50	10	N	20	N	200
JA0630	N	N	30	150	20	100	N	<20	50	10	N	15	N	500

TABLE 3.--Spectrographic and chemical analyses of stream sediments from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	Hg-ppm inst	Te-ppm aa	As-ppm aa	Zn-ppm aa	Cd-ppm aa	Bi-ppm aa	Sb-ppm aa
JA0585	100	N	20	N	100	N	--	--	--	--	--	--	--	--
JA0586	150	N	20	N	100	N	--	--	--	--	--	--	--	--
JA0587	150	N	20	N	100	N	--	--	--	--	--	--	--	--
JA0588	100	N	30	N	700	N	--	--	--	--	--	--	--	--
JA0589	150	N	50	N	500	N	--	--	--	--	--	--	--	--
JA0590	100	N	20	N	150	N	--	--	--	--	--	--	--	--
JA0591	100	70	15	N	100	N	--	--	--	--	--	--	--	--
JA0592	150	50	30	N	1,000	N	--	--	--	--	--	--	--	--
JA0593	150	N	30	<200	100	N	--	--	--	--	--	--	--	--
JA0594	200	N	30	N	300	N	--	--	--	--	--	--	--	--
JA0595	150	N	100	N	>1,000	N	--	--	--	--	--	--	--	--
JA0596	200	N	70	N	>1,000	N	--	--	--	--	--	--	--	--
JA0597	100	N	30	N	500	N	--	--	--	--	--	--	--	--
JA0598	200	N	100	N	1,000	150	--	--	--	--	--	--	--	--
JA0599	150	N	70	N	>1,000	N	--	--	--	--	--	--	--	--
JA0600	100	N	50	N	1,000	N	--	--	--	--	--	--	--	--
JA0601	200	N	50	N	300	N	--	--	--	--	--	--	--	--
JA0602	200	N	50	<200	200	N	--	--	--	--	--	--	--	--
JA0603	100	N	30	N	200	N	--	--	--	--	--	--	--	--
JA0604	300	N	50	N	>1,000	N	--	--	--	--	--	--	--	--
JA0605	150	N	50	N	500	N	--	--	--	--	--	--	--	--
JA0606	200	N	50	<200	500	N	--	--	--	--	--	--	--	--
JA0607	150	N	70	N	100	N	--	--	--	--	--	--	--	--
JA0608	100	N	30	N	>1,000	N	--	--	--	--	--	--	--	--
JA0609	100	N	50	N	>1,000	N	--	--	--	--	--	--	--	--
JA0610	100	N	50	N	500	N	--	--	--	--	--	--	--	--
JA0611	100	<50	30	N	500	N	--	--	--	--	--	--	--	--
JA0612	200	N	30	<200	200	N	--	--	--	--	--	--	--	--
JA0613	150	N	50	N	200	N	--	--	--	--	--	--	--	--
JA0614	150	N	70	N	1,000	N	--	--	--	--	--	--	--	--
JA0615	150	N	50	N	150	N	--	--	--	--	--	--	--	--
JA0616	100	N	50	N	700	N	--	--	--	--	--	--	--	--
JA0617	150	N	20	N	200	N	--	--	--	--	--	--	--	--
JA0618	100	N	50	N	500	N	--	--	--	--	--	--	--	--
JA0619	150	N	50	N	500	N	--	--	--	--	--	--	--	--
JA0620	100	N	30	N	200	N	--	--	--	--	--	--	--	--
JA0621	100	N	50	N	1,000	N	--	--	--	--	--	--	--	--
JA0622	100	N	50	N	300	N	--	--	--	--	--	--	--	--
JA0623	150	N	50	N	200	N	--	--	--	--	--	--	--	--
JA0624	100	N	50	N	500	N	--	--	--	--	--	--	--	--
JA0625	100	N	30	N	500	N	--	--	--	--	--	--	--	--
JA0626	100	N	50	N	700	N	--	--	--	--	--	--	--	--
JA0627	200	N	50	<200	500	N	--	--	--	--	--	--	--	--
JA0628	200	N	30	N	100	N	--	--	--	--	--	--	--	--
JA0630	200	N	50	<200	150	N	--	--	--	--	--	--	--	--

TABLE 3.--Spectrographic and chemical analyses of stream sediments from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
JA0631	58 4 22	133 47 18	10.0	2.00	1.50	1.00	1,000	N	N	N	10	700	<1.0
JA0632	58 4 17	133 45 10	7.0	1.50	1.00	.50	1,000	N	N	N	10	1,000	<1.0
JA0633	58 59 5	135 2 15	7.0	1.50	2.00	.70	700	N	N	N	<10	1,500	<1.0
JA0634	58 59 20	135 2 50	2.0	1.00	1.50	.20	700	N	N	N	10	500	1.0
JA0635	58 56 59	135 2 25	3.0	1.50	3.00	.50	1,500	N	N	N	10	700	1.0
JA0636	58 58 22	135 2 6	3.0	1.00	2.00	.70	500	N	N	N	<10	1,500	1.0
JA0637	58 55 27	135 0 30	5.0	2.00	2.00	.50	1,500	N	N	N	<10	700	<1.0
JA0638	58 55 30	135 1 50	3.0	1.00	2.00	.50	1,000	N	N	N	<10	700	1.0
JA0639	58 53 28	135 0 16	7.0	2.00	2.00	.70	1,000	N	N	N	<10	500	N
JA0640	58 54 28	135 0 50	7.0	3.00	3.00	.70	1,000	N	N	N	<10	1,000	N
JA0641	58 51 32	135 8 39	5.0	2.00	.70	.50	700	N	N	N	30	700	<1.0
JA0642	58 51 13	135 0 4	7.0	2.00	1.00	.50	700	<.5	N	N	<10	100	<1.0
JA0643	59 1 51	134 56 20	5.0	1.50	1.50	.50	500	N	N	N	<10	1,000	<1.0
JA0644	58 52 9	135 8 20	5.0	1.50	1.00	.50	1,000	<.5	N	N	30	700	1.0
JA0645	59 6 3	134 55 25	5.0	2.00	1.50	.30	700	N	N	N	<10	700	1.0
JA0646	59 3 27	134 56 19	5.0	1.50	1.50	.30	700	N	N	N	<10	700	1.0
JA0647	59 6 17	134 56 10	3.0	1.50	1.50	.30	500	N	N	N	<10	700	1.0
JA0649	58 2 28	133 22 50	3.0	1.50	1.00	.30	500	N	N	N	10	700	1.5
JA0650	59 0 50	135 2 51	1.5	.70	1.00	.15	500	N	N	N	<10	700	1.0
JA0651	58 0 32	133 23 35	2.0	1.50	1.00	.20	500	<.5	N	N	50	700	<1.0
JA0652	58 3 49	133 18 23	3.0	2.00	5.00	.30	500	N	N	N	10	1,000	1.0
JA0653	58 2 34	133 26 29	3.0	1.50	7.00	.30	300	<.5	<200	N	10	700	1.0
JA0654	58 4 22	133 19 16	2.0	1.00	1.00	.20	500	<.5	N	N	<10	1,000	1.0
JA0655	58 2 35	133 26 19	5.0	2.00	5.00	.50	500	N	N	N	20	500	1.0
JA0656	58 6 3	133 11 18	3.0	1.50	2.00	.50	500	N	N	N	<10	700	1.0
JA0657	58 5 57	133 11 9	7.0	2.00	2.00	.70	1,000	N	N	N	<10	500	1.0
JA0658	58 5 46	133 9 45	2.0	1.00	1.50	.30	500	N	N	N	<10	700	1.0
JA0659	58 5 42	133 9 58	3.0	1.50	2.00	.50	700	N	N	N	10	700	1.0
JA0660	58 7 38	133 45 1	5.0	1.00	2.00	.50	500	N	N	N	10	500	1.0
JA0661	58 36 15	134 43 22	5.0	1.00	2.00	.50	700	N	N	N	<10	500	1.0
JA0662	58 42 14	134 39 42	3.0	1.50	2.00	.50	700	N	N	N	10	500	1.0
JA0663	58 43 37	134 38 50	5.0	1.50	3.00	.50	700	N	N	N	10	500	1.0
JA0664	58 42 29	134 35 37	3.0	1.50	1.50	.50	700	N	N	N	<10	500	1.0
JA0665	58 47 10	134 28 35	5.0	1.50	1.50	.30	700	N	N	N	<10	700	<1.0
JA0666	58 47 22	134 28 3	5.0	1.00	1.50	.30	300	N	N	N	10	700	<1.0
JA0667	58 47 20	134 27 51	5.0	1.50	1.50	.50	1,000	N	N	N	10	1,000	1.5
JA0668	58 47 14	134 27 22	5.0	1.50	1.50	.50	1,000	N	N	N	10	1,000	1.0
JA0669	59 14 33	135 57 0	7.0	2.00	2.00	.50	1,000	N	N	N	10	300	<1.0
JA0670	59 14 54	135 58 25	5.0	1.50	2.00	.30	700	N	N	N	10	300	<1.0
JA0671	59 14 2	135 52 28	5.0	2.00	3.00	.30	1,000	N	N	N	10	500	<1.0
JA0672	59 14 18	135 55 23	7.0	2.00	2.00	.30	700	N	N	N	10	200	N
JA0673	59 14 35	135 44 26	5.0	1.00	1.00	.30	700	N	N	N	10	300	1.0
JA0674	59 14 28	135 47 52	5.0	1.50	2.00	.50	1,000	N	N	N	10	700	<1.0
JA0675	59 14 37	135 40 0	5.0	1.50	1.50	.50	700	N	N	N	15	300	<1.0
JA0676	59 14 40	135 42 54	5.0	1.50	1.50	.70	700	N	N	N	10	500	1.0

TABLE 3.--Spectrographic and chemical analyses of stream sediments from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s
JA0631	N	N	50	150	15	100	N	<20	50	10	N	20	N	500
JA0632	N	N	20	70	10	100	<5	<20	20	10	N	15	N	500
JA0633	N	N	15	15	<5	200	N	20	N	30	N	20	N	700
JA0634	N	N	15	50	15	100	N	N	30	<10	N	15	N	200
JA0635	N	N	15	50	20	200	N	<20	20	10	N	20	N	300
JA0636	N	N	10	15	<5	500	<5	20	N	10	N	20	N	700
JA0637	N	N	20	150	20	300	N	<20	20	15	N	20	N	200
JA0638	N	N	10	30	<5	300	N	20	10	10	N	15	N	500
JA0639	N	N	50	200	100	N	N	N	50	10	N	20	N	300
JA0640	N	N	30	150	100	50	N	<20	30	10	N	30	N	500
JA0641	N	N	20	100	70	N	N	N	50	20	N	20	N	200
JA0642	N	N	50	150	150	N	5	N	50	15	N	30	N	300
JA0643	N	N	15	70	5	200	N	<20	10	30	N	20	N	700
JA0644	N	N	20	100	50	N	<5	N	30	20	N	20	30	300
JA0645	N	N	20	500	20	200	N	<20	150	15	N	20	N	500
JA0646	N	N	20	700	7	150	N	<20	100	15	N	15	N	500
JA0647	N	N	15	500	5	50	N	<20	100	15	N	15	N	500
JA0649	N	N	15	150	20	N	N	<20	50	<10	N	15	N	300
JA0650	N	N	5	15	5	20	<5	N	5	20	N	10	N	500
JA0651	N	N	15	100	30	N	N	N	70	N	N	10	N	100
JA0652	N	N	15	100	15	50	N	<20	50	20	N	15	N	500
JA0653	N	N	15	100	20	70	N	<20	30	50	N	10	N	700
JA0654	N	N	10	50	7	100	N	N	10	30	N	10	N	500
JA0655	N	N	20	150	20	70	N	<20	50	20	N	15	N	1,000
JA0656	N	N	15	50	7	70	N	<20	10	20	N	15	N	500
JA0657	N	N	20	70	10	70	N	<20	7	15	N	15	N	500
JA0658	N	N	15	30	20	150	N	<20	<5	20	N	10	N	500
JA0659	N	N	15	70	10	100	N	<20	15	20	N	15	N	500
JA0660	N	N	15	50	7	150	N	<20	10	10	N	15	N	500
JA0661	N	N	10	30	7	50	N	<20	<5	15	N	15	N	500
JA0662	N	N	15	70	15	100	N	<20	20	20	N	15	N	300
JA0663	N	N	15	20	5	100	N	<20	N	20	N	20	N	1,000
JA0664	N	N	15	100	50	150	<5	<20	30	20	N	15	N	300
JA0665	N	N	10	50	7	150	N	<20	N	30	N	10	N	500
JA0666	N	N	10	70	5	150	N	<20	10	20	N	15	N	300
JA0667	N	N	20	100	10	150	N	<20	15	10	N	20	N	700
JA0668	N	N	10	50	7	100	<5	<20	10	50	N	20	N	700
JA0669	N	N	20	70	10	50	N	N	10	<10	N	20	N	700
JA0670	N	N	20	70	10	50	5	N	15	<10	N	20	N	500
JA0671	N	N	20	70	15	N	N	N	20	<10	N	20	N	500
JA0672	N	N	30	100	20	N	N	N	30	<10	N	20	N	300
JA0673	N	N	10	50	5	200	N	N	5	20	N	10	10	300
JA0674	N	N	20	100	20	50	N	N	20	10	N	20	N	700
JA0675	N	N	20	70	30	N	N	N	30	<10	N	30	N	300
JA0676	N	N	15	50	20	100	N	N	7	10	N	10	N	500

TABLE 3.--Spectrographic and chemical analyses of stream sediments from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	Hg-ppm inst	Te-ppm aa	As-ppm aa	Zn-ppm aa	Cd-ppm aa	Bi-ppm aa	Sb-ppm aa
JA0631	200	N	50	<200	150	N	--	--	--	--	--	--	--	--
JA0632	200	N	50	<200	200	N	--	--	--	--	--	--	--	--
JA0633	100	N	70	N	500	N	--	--	--	--	--	--	--	--
JA0634	70	N	30	N	200	N	--	--	--	--	--	--	--	--
JA0635	100	N	70	N	300	N	--	--	--	--	--	--	--	--
JA0636	70	N	70	N	500	N	--	--	--	--	--	--	--	--
JA0637	100	N	70	N	500	N	--	--	--	--	--	--	--	--
JA0638	100	N	50	N	1,000	N	--	--	--	--	--	--	--	--
JA0639	200	N	50	N	150	N	--	--	--	--	--	--	--	--
JA0640	100	N	50	N	200	N	--	--	--	--	--	--	--	--
JA0641	150	<50	30	N	150	N	--	--	--	--	--	--	--	--
JA0642	200	N	30	N	100	N	--	--	--	--	--	--	--	--
JA0643	100	N	50	N	200	N	--	--	--	--	--	--	--	--
JA0644	150	N	30	<200	100	N	--	--	--	--	--	--	--	--
JA0645	100	N	50	N	300	N	--	--	--	--	--	--	--	--
JA0646	150	N	50	N	200	N	--	--	--	--	--	--	--	--
JA0647	100	N	20	N	200	N	--	--	--	--	--	--	--	--
JA0649	100	N	20	N	70	N	--	--	--	--	--	--	--	--
JA0650	70	N	15	N	50	N	--	--	--	--	--	--	--	--
JA0651	100	N	20	N	100	N	--	--	--	--	--	--	--	--
JA0652	150	N	30	N	100	N	--	--	--	--	--	--	--	--
JA0653	100	N	50	N	100	N	--	--	--	--	--	--	--	--
JA0654	100	N	30	N	200	N	--	--	--	--	--	--	--	--
JA0655	100	N	50	N	100	N	--	--	--	--	--	--	--	--
JA0656	100	N	30	N	500	N	--	--	--	--	--	--	--	--
JA0657	150	N	50	N	300	N	--	--	--	--	--	--	--	--
JA0658	100	N	30	N	500	N	--	--	--	--	--	--	--	--
JA0659	100	N	30	N	300	N	--	--	--	--	--	--	--	--
JA0660	100	N	50	N	200	N	--	--	--	--	--	--	--	--
JA0661	100	N	30	N	300	N	--	--	--	--	--	--	--	--
JA0662	100	N	50	N	200	N	--	--	--	--	--	--	--	--
JA0663	150	N	50	N	500	N	--	--	--	--	--	--	--	--
JA0664	100	N	30	N	500	N	--	--	--	--	--	--	--	--
JA0665	150	N	30	N	500	N	--	--	--	--	--	--	--	--
JA0666	100	N	50	N	500	N	--	--	--	--	--	--	--	--
JA0667	150	N	50	N	200	N	--	--	--	--	--	--	--	--
JA0668	100	N	30	N	200	N	--	--	--	--	--	--	--	--
JA0669	300	N	50	N	300	N	--	--	--	--	--	--	--	--
JA0670	200	N	30	N	300	N	--	--	--	--	--	--	--	--
JA0671	150	N	30	N	200	N	--	--	--	--	--	--	--	--
JA0672	200	N	20	N	100	N	--	--	--	--	--	--	--	--
JA0673	70	N	50	N	200	N	--	--	--	--	--	--	--	--
JA0674	100	N	30	N	150	N	--	--	--	--	--	--	--	--
JA0675	200	N	30	<200	70	N	--	--	--	--	--	--	--	--
JA0676	100	N	50	N	1,000	N	--	--	--	--	--	--	--	--

TABLE 3.--Spectrographic and chemical analyses of stream sediments from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Latitude	Longitude	Fe-pct.	Mg-pct.	Ca-pct.	Ti-pct.	Mn-ppm	Ag-ppm	As-ppm	Au-ppm	B-ppm	Ba-ppm	Be-ppm
			s	s	s	s	s	s	s	s	s	s	s
JA0677	59 10 13	135 42 22	5.0	3.00	2.00	.50	700	N	N	N	10	300	<1.0
JA0678	59 11 56	135 38 31	5.0	.50	1.00	.50	700	N	N	N	10	500	1.0
JA0679	59 12 54	135 32 10	7.0	2.00	2.00	.50	1,000	N	N	N	15	500	1.0
JA0680	59 11 50	135 38 25	5.0	2.00	1.50	.50	1,000	N	N	N	10	300	<1.0
JA0681	59 9 25	135 30 35	5.0	1.00	1.50	.50	1,000	N	N	N	<10	200	<1.0
JA0682	59 12 28	135 37 48	7.0	1.50	1.50	.70	700	N	N	N	10	300	<1.0
JA0683	59 8 56	135 30 53	5.0	1.50	2.00	.70	1,000	N	N	N	<10	100	<1.0
JA0684	59 12 11	135 30 39	5.0	1.50	3.00	.50	700	N	N	N	10	300	<1.0
JA0685	59 8 49	135 30 52	7.0	2.00	2.00	.70	1,000	N	N	N	10	150	<1.0
JA0686	59 8 16	135 27 38	7.0	2.00	2.00	1.00	1,000	N	N	N	50	300	1.0
JA0687	59 4 57	135 25 20	1.5	2.00	3.00	.20	1,000	<.5	N	N	15	300	1.0
JA0688	59 7 43	135 27 8	5.0	2.00	5.00	.50	700	N	N	N	20	200	1.0
JA0690	59 7 1	135 26 48	5.0	2.00	5.00	.50	700	N	N	N	50	300	1.0
JA0691	59 13 53	135 0 26	5.0	3.00	2.00	.50	500	<.5	N	N	20	700	<1.0
JA0692	59 3 18	135 25 1	7.0	1.50	1.00	.70	500	N	N	N	10	200	<1.0
JA0693	59 11 57	134 58 42	3.0	1.50	2.00	.20	500	<.5	N	N	<10	1,000	1.0
JA0694	59 14 28	134 49 1	2.0	.70	1.00	.30	300	N	N	N	<10	700	1.0
JA0696	59 13 32	134 56 40	5.0	2.00	1.50	.50	700	N	N	N	<10	700	1.0
JA0697	59 12 52	134 50 15	3.0	7.00	1.50	.15	700	N	N	N	<10	500	<1.0
JA0698	59 13 40	134 58 20	2.0	2.00	1.50	.20	700	N	N	N	<10	500	1.0
JA0699	59 13 0	134 43 58	3.0	.20	1.00	.20	150	N	N	N	<10	1,000	<1.0
JA0700	59 12 9	135 0 22	2.0	1.00	1.50	.20	500	N	N	N	<10	1,000	1.0
JA0701	59 11 40	135 2 39	5.0	3.00	1.00	.30	700	N	N	N	10	1,000	N
JA0702	59 12 27	135 1 58	5.0	1.50	1.50	.30	700	N	N	N	<10	1,000	N
JA0703	59 14 43	135 4 22	3.0	1.50	1.50	.50	1,000	N	N	N	10	1,500	N
JA0704	59 13 33	135 4 56	3.0	1.50	1.00	.20	500	N	N	N	<10	1,000	N
JA0705	59 14 7	135 12 34	3.0	1.50	1.00	.30	500	N	N	N	10	700	N
JA0706	59 13 46	135 5 12	5.0	2.00	1.50	.50	1,000	N	N	N	10	1,000	N
JA0707	59 14 2	135 16 57	5.0	1.50	1.00	.70	1,000	N	N	N	<10	500	N
JA0708	59 15 4	135 11 32	5.0	1.50	1.00	.20	700	N	N	N	10	500	N
JA0709	59 13 41	135 19 22	3.0	1.50	1.00	.50	500	N	N	N	10	500	N
JA0710	59 12 32	135 16 15	2.0	1.00	1.00	.30	500	N	N	N	20	700	N
JA0711	59 9 4	135 10 12	5.0	1.00	1.00	.20	700	N	N	N	10	700	N
JA0712	59 11 8	135 16 32	3.0	1.00	1.00	.20	500	N	N	N	<10	700	N
JA0713	58 53 53	135 8 47	5.0	1.50	1.00	.50	700	N	N	N	<10	300	N
JA0714	59 8 48	135 14 40	5.0	1.50	1.00	.30	1,500	N	N	N	15	500	N
JA0715	58 55 28	135 9 55	5.0	1.50	1.00	.50	500	N	N	N	10	700	N
JA0716	58 57 43	135 10 18	2.0	1.50	.70	.10	500	N	N	N	20	300	N
JA0717	58 58 59	135 10 21	3.0	1.50	1.00	.30	1,000	N	N	N	10	300	N
JA0718	59 0 18	135 11 0	5.0	1.50	1.00	.50	700	N	N	N	10	300	N
JA0719	59 2 1	135 12 0	5.0	1.00	1.00	.50	500	N	N	N	<10	200	N
JA0720	59 24 15	135 0 15	7.0	1.50	1.00	>1.00	1,500	N	N	N	<10	500	N
JA0721	59 22 17	135 21 18	3.0	2.00	1.00	.30	700	<.5	N	N	10	500	N
JA0722	59 20 46	135 21 22	2.0	1.50	1.00	.50	500	N	N	N	10	700	<1.0
JA0723	59 1 30	135 23 58	5.0	1.00	1.00	.50	500	N	N	N	10	300	<1.0

TABLE 3.--Spectrographic and chemical analyses of stream sediments from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Pi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s
JA0677	N	N	30	150	50	100	N	N	30	10	N	20	N	300
JA0678	N	N	15	20	30	300	N	<20	N	10	N	10	N	200
JA0679	N	N	30	100	30	50	N	N	30	10	N	20	N	500
JA0680	N	N	20	100	30	20	N	N	20	15	N	20	N	300
JA0681	N	N	20	30	10	N	N	<20	<5	<10	N	20	N	500
JA0682	N	N	20	70	15	70	N	<20	20	10	N	20	N	300
JA0683	N	N	30	100	30	20	N	N	50	10	N	20	N	500
JA0684	N	N	20	50	20	N	N	N	20	15	N	15	N	700
JA0685	N	N	70	100	70	N	N	N	30	10	N	20	N	200
JA0686	N	N	50	100	50	30	N	<20	70	<10	N	30	N	300
JA0687	N	<20	10	70	70	N	N	N	15	30	N	10	N	500
JA0688	N	N	50	100	50	30	N	N	50	10	N	20	N	500
JA0690	N	N	30	150	50	50	N	N	70	15	N	20	N	500
JA0691	N	N	30	200	30	50	<5	N	70	20	N	20	N	500
JA0692	N	N	50	150	50	50	N	N	50	10	N	20	N	150
JA0693	N	N	15	50	5	70	N	N	15	20	N	20	N	700
JA0694	N	N	10	20	5	200	N	N	10	20	N	10	N	500
JA0696	N	N	20	150	30	200	N	<20	30	30	N	20	N	500
JA0697	N	N	50	1,000	10	N	N	N	700	<10	N	15	N	300
JA0698	N	N	15	70	7	50	N	N	50	20	N	15	N	500
JA0699	N	N	<5	20	<5	150	N	<20	7	30	N	7	<10	500
JA0700	N	N	10	20	<5	150	N	N	5	20	N	15	N	500
JA0701	N	N	20	70	50	50	N	N	50	10	N	10	N	200
JA0702	N	N	10	10	5	50	N	N	N	<10	N	10	N	300
JA0703	N	N	15	100	50	20	N	N	50	<10	N	7	N	300
JA0704	N	N	10	20	10	50	N	N	<5	20	N	10	N	300
JA0705	N	N	20	100	20	30	N	N	70	15	N	10	N	200
JA0706	N	N	20	70	20	100	N	N	<5	30	N	20	N	500
JA0707	N	N	20	20	5	50	N	N	N	<10	N	20	N	500
JA0708	N	N	7	50	5	50	N	N	10	15	N	5	N	100
JA0709	N	N	20	100	20	70	N	N	30	10	N	5	N	200
JA0710	N	N	10	100	10	50	N	N	30	<10	N	5	N	200
JA0711	N	N	10	50	20	50	N	N	10	20	N	10	N	100
JA0712	N	N	7	20	<5	70	N	N	N	<10	N	7	N	300
JA0713	N	N	30	150	100	N	N	N	50	N	N	10	N	100
JA0714	N	N	15	50	30	30	N	N	10	<10	N	15	N	100
JA0715	N	N	30	100	50	30	N	N	30	<10	N	10	N	200
JA0716	N	N	10	50	30	20	10	N	15	<10	N	10	N	<100
JA0717	N	N	15	70	50	30	N	N	50	<10	N	10	N	<100
JA0718	N	N	20	100	10	50	N	N	30	N	N	10	N	200
JA0719	N	N	15	20	30	20	N	N	N	N	N	15	N	150
JA0720	N	N	20	50	50	50	N	N	N	10	N	20	N	200
JA0721	N	N	30	150	100	30	N	N	100	50	N	15	N	150
JA0722	N	N	15	70	20	30	N	N	30	20	N	10	N	200
JA0723	N	N	15	20	15	50	N	N	15	<10	N	15	N	200

TABLE 3.--Spectrographic and chemical analyses of stream sediments from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	Hg-ppm inst	Te-ppm aa	As-ppm aa	Zn-ppm aa	Cd-ppm aa	Bi-ppm aa	Sb-ppm aa
JA0677	150	N	50	N	200	N	--	--	--	--	--	--	--	--
JA0678	100	N	70	N	500	N	--	--	--	--	--	--	--	--
JA0679	200	N	50	N	200	N	--	--	--	--	--	--	--	--
JA0680	150	N	30	N	150	N	--	--	--	--	--	--	--	--
JA0681	150	N	50	N	300	N	--	--	--	--	--	--	--	--
JA0682	100	N	50	N	200	N	--	--	--	--	--	--	--	--
JA0683	200	N	50	N	150	N	--	--	--	--	--	--	--	--
JA0684	150	N	20	N	100	N	--	--	--	--	--	--	--	--
JA0685	200	N	50	N	100	N	--	--	--	--	--	--	--	--
JA0686	200	N	70	<200	150	N	--	--	--	--	--	--	--	--
JA0687	100	N	15	<200	30	N	--	--	--	--	--	--	--	--
JA0688	150	N	50	N	100	N	--	--	--	--	--	--	--	--
JA0690	100	N	30	N	70	N	--	--	--	--	--	--	--	--
JA0691	150	N	30	N	70	N	--	--	--	--	--	--	--	--
JA0692	150	N	30	N	100	N	--	--	--	--	--	--	--	--
JA0693	100	N	30	N	300	N	--	--	--	--	--	--	--	--
JA0694	70	N	20	N	150	N	--	--	--	--	--	--	--	--
JA0696	100	N	70	N	150	N	--	--	--	--	--	--	--	--
JA0697	50	N	15	N	100	N	--	--	--	--	--	--	--	--
JA0698	100	N	20	N	70	N	--	--	--	--	--	--	--	--
JA0699	70	N	30	N	100	N	--	--	--	--	--	--	--	--
JA0700	70	N	30	N	150	N	--	--	--	--	--	--	--	--
JA0701	200	N	30	N	1,000	N	--	--	--	--	--	--	--	--
JA0702	150	N	15	N	1,000	N	--	--	--	--	--	--	--	--
JA0703	150	N	15	N	1,000	N	--	--	--	--	--	--	--	--
JA0704	150	N	10	N	500	N	--	--	--	--	--	--	--	--
JA0705	100	N	10	N	200	N	--	--	--	--	--	--	--	--
JA0706	100	N	20	N	700	N	--	--	--	--	--	--	--	--
JA0707	100	N	20	N	500	N	--	--	--	--	--	--	--	--
JA0708	100	N	10	N	700	N	--	--	--	--	--	--	--	--
JA0709	100	N	20	N	1,000	N	--	--	--	--	--	--	--	--
JA0710	70	N	20	N	500	N	--	--	--	--	--	--	--	--
JA0711	150	N	15	N	1,000	N	--	--	--	--	--	--	--	--
JA0712	70	N	20	N	>1,000	N	--	--	--	--	--	--	--	--
JA0713	200	N	10	N	1,000	N	--	--	--	--	--	--	--	--
JA0714	200	N	15	N	1,000	N	--	--	--	--	--	--	--	--
JA0715	150	N	20	N	1,000	N	--	--	--	--	--	--	--	--
JA0716	100	N	10	N	100	N	--	--	--	--	--	--	--	--
JA0717	150	N	20	N	700	N	--	--	--	--	--	--	--	--
JA0718	100	N	20	N	500	N	--	--	--	--	--	--	--	--
JA0719	100	N	20	N	1,000	N	--	--	--	--	--	--	--	--
JA0720	70	N	15	200	100	N	--	--	--	--	--	--	--	--
JA0721	200	N	20	N	150	N	--	--	--	--	--	--	--	--
JA0722	100	N	10	N	700	N	--	--	--	--	--	--	--	--
JA0723	100	N	20	N	700	N	--	--	--	--	--	--	--	--

TABLE 3.--Spectrographic and chemical analyses of stream sediments from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s	Be-ppm s
JA0724	59 0 48	135 24 1	5.0	1.50	1.00	.50	1,000	N	N	N	15	300	N
JA0725	58 59 25	135 23 58	5.0	1.00	1.00	.50	700	N	N	N	20	200	N
JA0726	58 57 40	135 23 35	5.0	1.50	.70	.50	700	<.5	N	N	20	300	N
JA0727	58 55 24	135 22 42	5.0	1.50	1.00	.50	1,000	N	N	N	70	300	N
JA0728	58 55 57	135 29 4	3.0	1.50	1.50	.20	700	N	N	N	10	300	N
JA0729	58 55 55	135 29 9	5.0	1.50	1.50	.30	700	.5	N	N	50	500	N
JA0730	58 55 1	135 28 10	3.0	1.50	1.00	.30	500	N	N	N	20	200	N
JA0731	58 55 7	135 28 13	5.0	2.00	2.00	.30	1,000	<.5	N	N	20	500	N
JA0732	58 56 27	135 18 41	3.0	1.50	1.00	.30	1,000	N	N	N	30	500	N
JA0733	58 49 22	135 17 8	2.0	1.00	.50	.20	700	N	N	N	20	200	N
JA0734	58 35 24	134 51 59	3.0	1.50	.15	.30	700	<.5	300	N	50	200	N
JA0735	58 34 36	134 45 3	2.0	1.50	.70	.20	700	N	N	N	20	300	N
JA0736	58 32 44	134 47 8	3.0	3.00	1.50	.30	1,500	N	N	N	70	500	N
JA0737	58 19 40	134 4 51	2.0	1.00	.50	.20	300	N	N	N	<10	700	N
JA0738	58 18 25	134 8 40	5.0	1.50	1.00	.50	700	N	N	N	10	700	N
JA0739	58 19 3	135 5 16	3.0	1.50	.50	.30	300	N	N	N	50	300	N
JA0740	58 18 59	135 5 26	5.0	2.00	.70	.50	500	7.0	N	N	70	300	N
JA0741	58 17 33	135 6 10	3.0	2.00	.30	.50	700	N	N	N	50	200	N
JA0742	58 17 59	135 5 51	5.0	2.00	.50	.50	500	N	N	N	50	300	N
JA0743	58 14 5	135 6 40	3.0	1.50	.70	.50	700	N	N	N	15	300	N
JA0744	58 13 13	135 9 19	3.0	2.00	.50	.50	300	N	N	N	50	500	N
JA0745	58 48 26	135 20 10	5.0	1.50	.50	.50	700	.5	N	N	50	700	<1.0
JA0746	58 47 7	135 17 16	5.0	1.50	.50	.50	700	N	N	N	30	300	N
JA0747	58 47 8	135 22 46	3.0	1.50	.50	.20	500	N	N	N	50	500	N
JA0748	58 45 5	135 23 8	2.0	1.50	.20	.30	200	N	N	N	50	700	N
JA0749	58 41 38	135 28 59	3.0	2.00	1.50	.20	200	N	N	N	50	700	N
JA0750	58 43 15	135 29 14	2.0	1.50	1.00	.30	200	<.5	N	N	50	500	<1.0
JA0751	58 43 9	135 29 0	2.0	2.00	2.00	.20	200	<.5	N	N	70	300	<1.0
JA0752	58 17 36	134 8 32	3.0	1.50	1.00	.30	700	N	N	N	10	700	1.0
JA0753	58 16 17	134 8 40	5.0	2.00	1.50	.50	500	.5	N	N	10	1,500	1.0
JA0754	58 50 28	135 27 23	3.0	1.50	10.00	.30	500	<.5	N	N	50	500	1.0
JA0755	58 21 56	133 59 28	3.0	.70	.70	.30	500	N	N	N	15	700	1.0
JA0756	58 17 13	134 2 25	3.0	1.50	1.50	.30	1,000	N	N	N	<10	500	1.0
JA0757	58 38 47	133 45 48	3.0	1.00	1.50	.30	700	N	N	N	<10	500	1.0
JA0758	58 36 9	133 49 32	5.0	1.50	1.50	.20	700	N	N	N	<10	700	1.0
JA0759	58 34 53	133 40 12	5.0	1.50	1.00	.50	1,000	N	N	N	30	1,000	1.0
JA0760	58 32 12	133 38 14	3.0	2.00	.70	.50	500	<.5	N	N	70	1,500	1.0
JA0761	58 29 38	133 34 9	5.0	2.00	1.00	.70	700	N	N	N	30	700	<1.0
JA0762	58 28 37	133 38 26	5.0	.70	.70	.20	300	N	N	N	10	700	1.0
JA0763	58 23 18	133 44 35	5.0	1.50	1.50	.30	700	N	N	N	<10	500	<1.0
JA0764	58 23 2	133 44 18	5.0	1.00	1.50	.30	500	N	N	N	<10	500	1.0
JA0765	58 23 51	133 43 28	3.0	.70	.70	.20	300	<.5	N	N	<10	700	1.0
JA0766	58 24 58	133 42 39	3.0	.70	.70	.20	700	N	N	N	<10	700	1.0
JA0767	58 25 40	133 41 1	2.0	1.00	.70	.30	700	N	N	N	50	700	1.0
JA0768	58 26 10	133 40 37	3.0	2.00	1.00	.50	700	N	N	N	50	700	<1.0

TABLE 3.--Spectrographic and chemical analyses of stream sediments from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s
JA0724	N	N	30	70	100	30	N	N	50	10	N	15	N	200
JA0725	N	N	30	70	100	N	N	N	50	N	N	10	N	150
JA0726	N	N	30	70	100	N	N	N	30	30	N	10	N	200
JA0727	N	N	20	70	100	N	N	N	50	<10	N	10	N	200
JA0728	N	N	20	50	150	N	N	N	50	10	N	15	N	200
JA0729	N	N	30	100	150	30	<5	N	70	30	N	15	N	300
JA0730	N	N	20	70	150	N	N	N	50	<10	N	10	N	100
JA0731	N	N	50	100	150	N	N	N	100	20	N	15	N	300
JA0732	N	N	20	100	30	N	N	N	50	<10	N	10	N	200
JA0733	N	N	20	100	50	N	N	N	50	<10	N	10	N	100
JA0734	N	N	30	70	150	N	N	N	30	50	N	10	N	<100
JA0735	N	N	15	50	50	N	N	N	50	<10	N	15	N	150
JA0736	N	N	50	200	100	N	N	N	150	10	N	30	N	200
JA0737	N	N	<5	10	5	50	N	N	N	20	N	5	N	200
JA0738	N	N	20	100	50	50	<5	N	50	<10	N	20	N	300
JA0739	N	N	15	150	70	N	<5	N	50	<10	N	10	N	100
JA0740	N	N	20	500	70	<20	N	N	100	<10	N	10	N	150
JA0741	N	N	20	150	70	N	N	N	100	15	N	10	N	100
JA0742	N	N	15	150	15	N	N	N	70	<10	N	7	N	100
JA0743	N	N	10	150	10	N	N	N	30	<10	N	10	N	100
JA0744	N	N	10	70	20	N	N	N	70	<10	N	15	N	150
JA0745	N	N	50	100	150	30	5	N	100	20	N	20	N	200
JA0746	N	N	50	100	100	<20	N	N	70	<10	N	20	N	100
JA0747	N	<20	20	70	70	N	N	N	70	10	N	15	N	<100
JA0748	N	N	15	70	20	N	N	N	70	10	N	10	N	N
JA0749	N	N	15	50	50	N	N	N	70	10	N	10	N	200
JA0750	N	N	10	50	30	N	<5	N	70	<10	N	7	N	<100
JA0751	N	N	10	70	20	N	N	N	30	20	N	10	N	300
JA0752	N	N	10	50	10	N	N	N	<5	30	N	10	N	200
JA0753	N	N	20	200	50	70	N	N	50	15	N	20	N	300
JA0754	N	N	20	100	30	50	N	N	50	20	N	20	N	300
JA0755	N	N	10	70	5	30	<5	N	N	50	N	10	N	300
JA0756	N	N	20	100	20	50	N	N	20	15	N	20	N	300
JA0757	N	N	15	50	7	50	N	N	7	20	N	20	N	500
JA0758	N	N	15	70	10	70	N	N	15	20	N	20	N	700
JA0759	N	N	20	200	30	30	10	N	70	10	N	20	N	300
JA0760	N	N	20	200	70	70	15	N	100	20	N	20	N	150
JA0761	N	N	20	200	50	50	5	N	100	15	N	20	N	150
JA0762	N	N	10	70	10	200	<5	N	<5	30	N	5	<10	200
JA0763	N	N	20	100	15	70	5	N	30	20	N	20	N	500
JA0764	N	N	15	70	15	100	<5	N	20	10	N	20	N	300
JA0765	N	N	7	50	15	200	N	N	N	30	N	7	N	500
JA0766	N	N	10	30	10	70	N	N	5	10	N	10	N	300
JA0767	N	N	15	100	50	50	5	N	70	<10	N	15	N	150
JA0768	N	N	20	200	70	N	10	N	70	15	N	15	N	100

TABLE 3.--Spectrographic and chemical analyses of stream sediments from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	Hg-ppm inst	Te-ppm aa	As-ppm aa	Zn-ppm aa	Cd-ppm aa	Bi-ppm aa	Sb-ppm aa
JA0724	200	N	20	N	150	N	--	--	--	--	--	--	--	--
JA0725	200	N	20	N	100	N	--	--	--	--	--	--	--	--
JA0726	200	N	15	N	500	N	--	--	--	--	--	--	--	--
JA0727	200	N	15	N	300	N	--	--	--	--	--	--	--	--
JA0728	150	N	20	N	100	N	--	--	--	--	--	--	--	--
JA0729	200	N	20	<200	100	N	--	--	--	--	--	--	--	--
JA0730	200	N	15	N	50	N	--	--	--	--	--	--	--	--
JA0731	300	N	20	<200	70	N	--	--	--	--	--	--	--	--
JA0732	200	N	15	N	150	N	--	--	--	--	--	--	--	--
JA0733	150	N	10	N	100	N	--	--	--	--	--	--	--	--
JA0734	150	N	10	N	70	N	--	--	--	--	--	--	--	--
JA0735	200	N	15	N	700	N	--	--	--	--	--	--	--	--
JA0736	200	N	15	N	500	N	--	--	--	--	--	--	--	--
JA0737	150	N	10	N	300	N	--	--	--	--	--	--	--	--
JA0738	200	N	50	N	700	N	--	--	--	--	--	--	--	--
JA0739	150	N	10	N	150	N	--	--	--	--	--	--	--	--
JA0740	200	N	10	N	1,000	N	--	--	--	--	--	--	--	--
JA0741	150	N	15	N	150	N	--	--	--	--	--	--	--	--
JA0742	200	N	10	N	1,000	N	--	--	--	--	--	--	--	--
JA0743	150	N	10	N	1,000	N	--	--	--	--	--	--	--	--
JA0744	200	N	15	N	700	N	--	--	--	--	--	--	--	--
JA0745	200	N	20	<200	200	N	--	--	--	--	--	--	--	--
JA0746	200	N	15	N	100	N	--	--	--	--	--	--	--	--
JA0747	200	N	10	200	50	N	--	--	--	--	--	--	--	--
JA0748	150	N	10	N	100	N	--	--	--	--	--	--	--	--
JA0749	100	N	10	N	50	N	--	--	--	--	--	--	--	--
JA0750	100	N	10	N	70	N	--	--	--	--	--	--	--	--
JA0751	100	N	20	N	100	N	--	--	--	--	--	--	--	--
JA0752	100	N	20	N	200	N	--	--	--	--	--	--	--	--
JA0753	200	N	30	N	100	N	--	--	--	--	--	--	--	--
JA0754	200	N	30	N	100	N	--	--	--	--	--	--	--	--
JA0755	100	N	20	N	200	N	--	--	--	--	--	--	--	--
JA0756	150	N	30	N	200	N	--	--	--	--	--	--	--	--
JA0757	150	N	30	N	200	<100	--	--	--	--	--	--	--	--
JA0758	100	N	30	N	100	N	--	--	--	--	--	--	--	--
JA0759	150	N	30	N	150	N	--	--	--	--	--	--	--	--
JA0760	150	N	50	N	200	N	--	--	--	--	--	--	--	--
JA0761	100	N	30	N	100	N	--	--	--	--	--	--	--	--
JA0762	100	N	50	N	1,000	N	--	--	--	--	--	--	--	--
JA0763	150	N	50	N	100	N	--	--	--	--	--	--	--	--
JA0764	150	N	50	N	200	N	--	--	--	--	--	--	--	--
JA0765	100	N	20	N	500	N	--	--	--	--	--	--	--	--
JA0766	100	N	30	N	300	N	--	--	--	--	--	--	--	--
JA0767	100	N	20	N	150	N	--	--	--	--	--	--	--	--
JA0768	100	N	20	N	100	N	--	--	--	--	--	--	--	--

TABLE 3.--Spectrographic and chemical analyses of stream sediments from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	P-ppm s	Ba-ppm s	Be-ppm s
JA0770	58 27 32	133 40 36	5.0	2.00	1.00	.50	1,000	N	N	N	10	500	<1.0
JA0771	58 27 24	133 41 12	3.0	2.00	.70	.50	500	N	N	N	50	1,000	1.0
JA0772	58 29 54	133 43 29	5.0	2.00	1.00	1.00	500	N	N	N	70	500	1.0
JA0773	58 24 47	133 48 14	5.0	2.00	1.00	.50	500	N	N	N	10	700	<1.0
JA0774	58 24 57	133 46 45	3.0	.30	1.00	.20	300	N	N	N	10	700	1.5
JA0775	58 27 33	133 45 49	3.0	1.50	1.00	.50	1,000	N	N	N	50	1,000	<1.0
JA0776	58 26 59	133 51 9	7.0	1.00	.50	.20	500	N	N	N	10	700	1.0
JA0777	58 11 12	133 39 21	5.0	2.00	1.50	.30	1,000	N	N	N	<10	1,000	<1.0
JA0778	58 8 37	133 35 19	5.0	2.00	1.50	.30	700	N	N	N	<10	1,000	1.0
JA0779	58 8 41	133 35 1	2.0	.70	1.00	.15	300	N	N	N	<10	1,000	<1.0
JA0780	58 8 52	133 39 28	10.0	1.50	1.50	.50	1,000	N	N	N	<10	1,000	N
JA0781	58 5 29	133 37 50	5.0	1.00	1.50	.20	700	.5	N	N	<10	1,000	<1.0
JA0782	58 5 34	133 38 0	10.0	1.50	1.00	.20	1,000	1.0	N	N	<10	1,000	N
JA0783	58 8 28	133 46 58	5.0	2.00	1.50	.20	1,000	N	N	N	<10	1,000	<1.0
JA0784	58 7 43	133 49 32	5.0	1.50	1.50	.30	700	N	N	N	10	700	<1.0
JA0785	58 2 3	133 48 33	5.0	2.00	1.00	.30	700	<.5	N	N	30	1,000	<1.0
JA0786	58 2 21	133 56 7	5.0	2.00	1.00	.50	700	<.5	N	N	30	1,500	<1.0
JA0787	58 31 38	134 41 29	5.0	2.00	1.50	.50	1,000	N	N	N	20	700	<1.0
JA0788	58 32 8	134 39 47	5.0	1.50	1.50	.30	1,000	N	N	N	10	700	1.0
JA0789	58 31 27	134 38 58	5.0	1.50	2.00	.70	1,000	N	N	N	20	500	1.0
JA0790	58 23 48	134 24 42	5.0	2.00	2.00	.50	1,000	N	N	N	<10	700	1.0
JA0791	58 22 45	134 26 33	5.0	2.00	1.50	.50	1,000	N	N	N	<10	700	<1.0
JA0792	59 5 55	135 11 2	3.0	1.50	1.50	.20	1,000	N	N	N	<10	700	1.5
JA0793	59 5 41	135 11 20	5.0	2.00	2.00	.50	700	N	N	N	<10	700	<1.0
JA0794	59 2 57	135 11 52	2.0	1.00	2.00	.20	700	N	N	N	<10	500	1.0
JA0795	58 52 13	135 22 13	5.0	1.50	.70	.50	700	.7	N	N	50	700	<1.0
JA0796	58 52 18	135 22 8	7.0	2.00	1.50	.70	1,000	.5	N	N	50	700	<1.0
JA0797	58 51 14	135 24 31	7.0	2.00	.70	.50	700	<.5	N	N	30	700	<1.0
JA0798	58 50 52	135 18 39	7.0	2.00	1.00	.50	700	.5	N	N	50	500	<1.0
JA0799	58 46 18	135 36 10	5.0	1.50	.70	.30	200	<.5	N	N	50	300	<1.0
JA0800	58 45 57	135 38 19	3.0	2.00	1.00	.30	200	<.5	N	N	70	500	2.0
JA0801	58 46 24	135 40 22	5.0	2.00	3.00	.30	300	<.5	N	N	50	300	<1.0
JA0802	58 47 3	135 41 17	3.0	1.50	2.00	.30	300	<.5	N	N	50	300	1.0
JA0803	58 49 37	135 38 24	2.0	1.50	10.00	.20	1,000	<.5	N	N	20	2,000	N
JA0804	58 40 55	135 19 51	5.0	2.00	3.00	.30	300	<.5	N	N	70	500	N
JA0805	58 40 23	135 18 28	3.0	2.00	.20	.50	500	<.5	N	N	70	700	1.0
JA0806	58 38 22	135 16 39	3.0	1.50	10.00	.20	500	<.5	N	N	30	300	<1.0
JA0807	58 37 27	135 14 54	3.0	1.50	.70	.30	300	<.5	N	N	70	300	<1.0
JA0808	58 30 9	134 59 45	7.0	2.00	2.00	.50	2,000	N	N	N	15	500	<1.0
JA0809	58 27 39	134 53 32	3.0	1.50	.50	.20	700	N	N	N	50	500	<1.0
JA0810	58 26 50	134 44 12	5.0	1.50	.50	.30	1,000	N	N	N	70	500	1.0
JA0811	58 1 58	134 33 19	5.0	2.00	1.00	>1.00	1,500	N	N	N	10	300	<1.0
JA0812	58 1 54	134 33 22	7.0	3.00	1.00	1.00	1,000	N	N	N	10	200	<1.0
JA0813	58 2 35	134 35 55	5.0	2.00	1.00	.70	1,000	N	N	N	15	300	<1.0
JA0814	57 57 38	134 31 54	5.0	1.50	1.00	.30	700	50.0	N	N	70	>5,000	<1.0

TABLE 3.--Spectrographic and chemical analyses of stream sediments from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s
JA0770	N	N	20	200	50	30	<5	N	70	20	N	20	N	300
JA0771	N	N	50	200	20	N	7	<20	100	10	N	20	N	<100
JA0772	N	N	30	150	30	70	N	20	70	<10	N	20	N	300
JA0773	N	N	10	70	20	100	5	N	15	30	N	20	N	300
JA0774	N	N	10	50	5	150	N	N	N	10	N	5	N	500
JA0775	N	N	50	150	20	<20	<5	N	50	<10	N	20	N	200
JA0776	N	N	10	30	10	50	50	N	10	20	N	10	N	200
JA0777	N	N	20	150	30	150	N	N	30	20	N	20	N	1,000
JA0778	N	N	5	100	15	100	N	N	20	20	N	20	N	700
JA0779	N	N	<5	10	10	100	N	N	<5	50	N	10	N	700
JA0780	N	N	20	100	30	200	N	N	10	10	N	15	N	700
JA0781	N	N	5	15	15	150	N	N	N	30	N	20	N	700
JA0782	N	N	10	50	20	200	N	N	N	20	N	20	N	500
JA0783	N	N	7	70	20	150	N	N	20	20	N	20	N	700
JA0784	N	N	5	30	15	100	N	<20	N	10	N	20	N	700
JA0785	N	N	50	200	20	N	N	<20	70	10	N	20	N	200
JA0786	N	N	50	200	20	50	N	N	100	10	N	30	N	300
JA0787	N	N	30	200	30	N	N	N	70	10	N	20	N	300
JA0788	N	N	20	150	15	100	N	N	30	20	N	20	N	700
JA0789	N	N	7	70	20	70	N	N	7	10	N	20	N	500
JA0790	N	N	20	70	10	100	N	N	30	10	N	15	N	700
JA0791	N	N	20	100	15	N	N	N	30	20	N	15	N	300
JA0792	N	N	15	50	10	200	N	N	10	50	N	15	N	200
JA0793	N	N	20	200	30	150	N	N	50	50	N	20	N	200
JA0794	N	N	10	70	10	70	N	N	15	20	N	15	N	300
JA0795	N	N	30	100	150	70	10	N	50	30	N	20	N	200
JA0796	N	N	50	150	200	100	N	N	50	30	N	50	N	300
JA0797	N	N	50	150	100	50	<5	N	50	30	N	30	N	200
JA0798	N	N	50	150	100	30	N	N	50	30	N	30	N	300
JA0799	<10	N	20	150	30	100	10	N	50	20	N	20	N	200
JA0800	<10	N	15	100	30	70	<5	N	50	30	N	20	N	150
JA0801	N	N	30	100	70	N	N	N	70	50	N	15	N	300
JA0802	N	N	20	100	30	N	N	N	50	20	N	15	N	200
JA0803	N	N	10	30	20	N	N	N	15	70	N	7	N	300
JA0804	N	N	15	150	50	N	5	N	50	20	N	15	N	200
JA0805	N	N	30	300	30	50	N	N	150	30	N	15	N	<100
JA0806	N	N	15	100	30	N	N	N	30	15	N	15	N	700
JA0807	N	N	15	150	30	N	N	N	50	15	N	15	N	<100
JA0808	N	N	30	150	15	N	N	N	20	10	N	30	N	300
JA0809	N	N	20	500	20	N	N	N	30	20	N	15	N	100
JA0810	N	N	20	100	50	N	N	N	30	15	N	20	N	200
JA0811	N	N	30	200	70	N	N	N	50	10	N	30	N	150
JA0812	N	N	50	300	70	N	N	N	70	10	N	30	N	200
JA0813	N	N	20	200	50	N	N	N	50	<10	N	20	N	150
JA0814	N	N	20	150	50	N	20	N	50	1,000	N	15	N	200

TABLE 3.--Spectrographic and chemical analyses of stream sediments from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s	Au-ppm aa	Hg-ppm inst	Te-ppm aa	As-ppm aa	Zn-ppm aa	Cd-ppm aa	Bi-ppm aa	Sb-ppm aa
JA0770	100	N	30	N	150	N	--	--	--	--	--	--	--	--
JA0771	150	N	30	N	70	N	--	--	--	--	--	--	--	--
JA0772	100	N	30	N	100	N	--	--	--	--	--	--	--	--
JA0773	100	N	30	N	100	N	--	--	--	--	--	--	--	--
JA0774	100	N	30	N	500	N	--	--	--	--	--	--	--	--
JA0775	100	N	50	N	70	N	--	--	--	--	--	--	--	--
JA0776	100	N	20	N	100	N	--	--	--	--	--	--	--	--
JA0777	100	N	50	N	150	N	--	--	--	--	--	--	--	--
JA0778	100	N	50	N	100	N	--	--	--	--	--	--	--	--
JA0779	50	N	30	N	100	N	--	--	--	--	--	--	--	--
JA0780	150	N	100	<200	>1,000	N	--	--	--	--	--	--	--	--
JA0781	100	N	30	N	200	N	--	--	--	--	--	--	--	--
JA0782	200	N	70	N	>1,000	N	--	--	--	--	--	--	--	--
JA0783	100	N	50	N	150	N	--	--	--	--	--	--	--	--
JA0784	150	N	50	N	500	N	--	--	--	--	--	--	--	--
JA0785	150	N	30	N	50	N	--	--	--	--	--	--	--	--
JA0786	150	N	30	N	50	N	--	--	--	--	--	--	--	--
JA0787	100	N	20	N	100	N	--	--	--	--	--	--	--	--
JA0788	100	N	30	N	100	N	--	--	--	--	--	--	--	--
JA0789	150	N	30	N	200	N	--	--	--	--	--	--	--	--
JA0790	150	N	30	N	200	N	--	--	--	--	--	--	--	--
JA0791	100	N	30	N	150	N	--	--	--	--	--	--	--	--
JA0792	100	N	70	N	1,000	N	--	--	--	--	--	--	--	--
JA0793	100	N	50	N	300	N	--	--	--	--	--	--	--	--
JA0794	100	N	30	N	300	N	--	--	--	--	--	--	--	--
JA0795	200	N	50	200	150	N	--	--	--	--	--	--	--	--
JA0796	200	N	50	<200	100	N	--	--	--	--	--	--	--	--
JA0797	200	N	50	N	100	N	--	--	--	--	--	--	--	--
JA0798	200	N	50	N	100	N	--	--	--	--	--	--	--	--
JA0799	100	N	30	N	100	N	--	--	--	--	--	--	--	--
JA0800	150	N	30	N	100	N	--	--	--	--	--	--	--	--
JA0801	100	N	50	<200	100	N	--	--	--	--	--	--	--	--
JA0802	150	N	20	N	100	N	--	--	--	--	--	--	--	--
JA0803	100	N	20	N	100	N	--	--	--	--	--	--	--	--
JA0804	100	N	20	N	100	N	--	--	--	--	--	--	--	--
JA0805	150	N	30	N	150	N	--	--	--	--	--	--	--	--
JA0806	100	N	20	N	50	N	--	--	--	--	--	--	--	--
JA0807	100	N	20	N	100	N	--	--	--	--	--	--	--	--
JA0808	200	N	20	N	100	N	--	--	--	--	--	--	--	--
JA0809	150	N	15	N	70	N	--	--	--	--	--	--	--	--
JA0810	150	N	50	200	70	N	--	--	--	--	--	--	--	--
JA0811	150	N	50	N	100	N	--	--	--	--	--	--	--	--
JA0812	150	N	50	N	100	N	--	--	--	--	--	--	--	--
JA0813	150	N	50	N	100	N	--	--	--	--	--	--	--	--
JA0814	100	N	30	1,000	70	N	--	--	--	--	--	--	--	--

TABLE 4.--Spectrographic analyses of heavy-mineral concentrates from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.

[N, not detected; <, detected but below the limit of determination shown; >, determined to be greater than the value shown.]

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
JA0019C	58 30 8	134 59 41	2.00	1.00	3.0	>2.00	700	N	N	N	100	3,000
JA0020C	58 23 3	134 55 3	2.00	1.00	10.0	>2.00	1,500	N	N	N	50	1,000
JA0021C	58 22 20	134 55 5	.50	.70	2.0	>2.00	1,000	N	N	N	50	700
JA0022C	58 20 0	134 54 0	3.00	1.00	2.0	>2.00	500	N	N	N	20	2,000
JA0023C	58 19 14	134 53 8	.50	.70	2.0	>2.00	300	N	N	N	70	1,000
JA0024C	58 19 15	134 53 18	1.50	1.00	2.0	>2.00	500	N	N	N	20	1,000
JA0025C	58 19 10	134 52 30	1.00	1.00	5.0	>2.00	1,000	N	N	N	20	1,000
JA0026C	58 20 25	134 51 15	1.00	1.00	5.0	>2.00	1,500	N	N	N	100	300
JA0027C	58 17 43	134 48 12	10.00	1.00	2.0	2.00	500	N	N	N	200	10,000
JA0028C	58 17 39	134 48 3	2.00	.70	2.0	2.00	500	N	N	150	100	1,500
JA0029C	58 17 37	134 47 56	.50	1.00	2.0	2.00	500	N	N	N	150	1,000
JA0030C	58 15 48	134 45 18	1.00	1.00	2.0	>2.00	700	N	N	N	100	1,000
JA0031C	58 15 22	134 44 59	1.50	1.00	3.0	>2.00	1,000	N	N	N	200	1,000
JA0032C	58 15 11	134 44 58	1.00	1.00	2.0	>2.00	1,000	700.0	N	>1,000	100	700
JA0033C	58 13 37	134 42 38	1.50	1.00	1.5	>2.00	700	N	N	N	50	500
JA0034C	58 11 35	134 44 29	3.00	.70	2.0	>2.00	500	20.0	N	70	50	>10,000
JA0035C	58 11 20	134 45 4	2.00	1.00	1.5	>2.00	500	N	N	N	70	>10,000
JA0036C	58 10 9	134 46 15	3.00	.20	1.5	>2.00	300	50.0	N	100	50	>10,000
JA0038C	58 8 12	134 46 24	10.00	.50	1.5	>2.00	300	N	N	N	100	7,000
JA0039C	58 12 3	134 53 57	2.00	.70	3.0	>2.00	1,000	N	N	N	50	700
JA0040C	58 12 0	134 53 55	1.50	.70	5.0	>2.00	1,500	N	N	N	50	700
JA0041C	58 14 49	134 52 46	1.50	.70	5.0	>2.00	500	N	N	N	20	3,000
JA0043C	58 17 35	134 40 15	1.50	1.00	5.0	>2.00	1,000	N	N	N	100	1,000
JA0044C	58 19 10	134 38 35	10.00	1.50	2.0	>2.00	1,000	N	10,000	N	50	5,000
JA0045C	58 19 20	134 37 0	2.00	1.00	2.0	>2.00	500	N	5,000	N	100	5,000
JA0046C	58 19 50	134 35 35	2.00	3.00	5.0	>2.00	1,000	N	N	N	3,000	5,000
JA0047C	58 20 10	134 34 35	1.00	.70	3.0	>2.00	700	2,000.0	N	>1,000	100	1,000
JA0048C	58 20 20	134 32 50	1.00	.20	1.5	>2.00	200	10.0	N	N	100	2,000
JA0049C	58 20 30	134 31 30	3.00	1.00	5.0	>2.00	1,500	N	N	N	100	1,500
JA0050C	58 20 10	134 52 21	5.00	1.00	2.0	>2.00	1,000	30.0	N	N	50	5,000
JA0051C	58 18 20	134 48 8	2.00	1.00	2.0	>2.00	1,000	N	N	N	50	1,000
JA0052C	58 15 27	134 48 45	5.00	1.00	2.0	>2.00	500	N	N	N	500	10,000
JA0053C	58 15 27	134 48 27	3.00	1.50	2.0	>2.00	500	N	N	N	500	10,000
JA0054C	58 16 8	134 49 34	1.00	1.00	2.0	>2.00	500	N	N	N	50	1,000
JA0055C	58 16 47	134 46 59	2.00	1.50	2.0	>2.00	500	N	N	N	100	10,000
JA0056C	58 13 50	134 43 28	2.00	1.00	2.0	>2.00	1,000	N	N	N	100	700
JA0058C	58 9 23	134 42 24	1.50	.70	1.5	>2.00	500	N	N	N	50	>10,000
JA0059C	58 9 28	134 42 29	.50	.50	1.5	>2.00	300	N	N	N	50	10,000
JA0060C	58 9 28	134 42 9	.70	1.00	2.0	>2.00	1,000	N	N	N	50	10,000
JA0061C	58 10 39	134 45 1	10.00	.20	1.5	2.00	200	N	N	N	20	>10,000
JA0062C	58 9 8	134 46 21	10.00	.70	2.0	2.00	500	N	N	N	50	>10,000
JA0063C	58 6 37	134 46 38	5.00	.70	3.0	>2.00	1,000	N	N	N	50	7,000
JA0064C	58 9 23	134 49 55	10.00	.50	2.0	>2.00	300	N	N	N	50	7,000
JA0065C	58 14 2	134 53 22	3.00	.70	2.0	>2.00	500	N	N	N	50	5,000
JA0066C	58 14 10	134 53 11	3.00	1.00	2.0	>2.00	1,000	N	N	N	100	7,000

TABLE 4.--Spectrographic analyses of heavy-mineral concentrates from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
JA0019C	N	N	N	50	100	10	100	10	100	N	20
JA0020C	N	N	N	70	150	<10	200	N	<50	N	30
JA0021C	N	N	N	10	100	N	100	N	50	N	<20
JA0022C	N	N	N	50	100	N	200	10	100	20	50
JA0023C	N	N	<50	<10	100	N	<50	<10	50	N	150
JA0024C	N	N	N	10	150	N	<50	<10	70	N	20
JA0025C	N	N	N	<10	100	N	500	20	100	N	20
JA0026C	N	N	N	<10	100	N	300	<10	100	N	20
JA0027C	N	N	N	700	70	500	100	N	50	200	100
JA0028C	N	N	N	70	20	N	50	N	50	N	<20
JA0029C	N	N	N	10	50	N	<50	N	50	N	20
JA0030C	N	N	<50	20	50	N	50	N	<50	N	<20
JA0031C	N	1,000	N	20	100	N	500	<10	50	N	100
JA0032C	N	N	N	10	70	N	200	<10	50	N	70
JA0033C	N	N	<50	50	100	N	200	10	50	N	20
JA0034C	N	N	N	20	150	N	50	<10	150	<10	100
JA0035C	N	N	N	20	150	N	50	<10	100	N	20
JA0036C	N	N	N	20	100	N	N	20	150	10	1,000
JA0038C	N	N	N	150	150	20	N	N	100	100	20
JA0039C	N	N	N	50	70	N	50	<10	100	N	200
JA0040C	N	N	N	20	70	N	<50	10	70	N	200
JA0041C	N	N	N	20	150	N	<50	N	70	N	N
JA0043C	N	N	N	20	200	N	500	<10	100	N	50
JA0044C	N	N	N	100	200	10	200	50	200	50	15,000
JA0045C	N	N	N	70	300	10	200	50	200	20	50
JA0046C	N	N	N	20	500	N	200	N	100	20	100
JA0047C	N	N	N	10	100	N	200	30	100	N	50
JA0048C	N	<20	N	20	100	N	100	<10	100	N	<20
JA0049C	N	N	N	70	200	N	300	10	100	N	N
JA0050C	2	N	N	500	200	200	200	20	100	20	50
JA0051C	N	N	N	50	150	200	200	10	100	20	50
JA0052C	N	N	N	100	100	200	200	10	100	100	20
JA0053C	N	N	N	100	100	20	300	10	100	20	50
JA0054C	N	N	N	20	100	N	200	<10	100	N	20
JA0055C	N	N	N	50	150	20	200	<10	100	50	<20
JA0056C	N	N	N	50	100	20	300	10	100	20	50
JA0058C	N	N	N	20	100	N	200	10	200	<10	100
JA0059C	N	N	N	10	100	N	100	N	100	N	<20
JA0060C	N	N	N	10	100	N	300	<10	100	N	20
JA0061C	N	N	N	100	50	N	<50	N	70	150	100
JA0062C	N	N	N	300	200	30	N	N	<50	200	50
JA0063C	N	N	N	100	100	N	100	<10	150	100	100
JA0064C	N	N	N	300	70	500	N	50	70	200	20
JA0065C	N	N	N	70	70	20	50	<10	70	N	70
JA0066C	N	N	N	30	100	N	100	N	100	10	70

TABLE 4.--Spectrographic analyses of heavy-mineral concentrates from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
JA0019C	N	N	20	N	150	N	300	N	>2,000	N
JA0020C	N	20	30	1,000	200	100	1,000	N	>2,000	N
JA0021C	N	20	<20	N	200	100	500	N	>2,000	N
JA0022C	N	<10	50	N	200	100	500	N	>2,000	N
JA0023C	N	20	<20	N	200	200	500	N	>2,000	N
JA0024C	N	20	<20	N	300	100	300	N	>2,000	N
JA0025C	N	20	70	N	500	500	1,000	N	>2,000	N
JA0026C	N	20	30	<200	200	N	700	N	>2,000	N
JA0027C	N	10	N	<200	100	<100	500	N	>2,000	N
JA0028C	N	N	N	<200	100	N	200	N	>2,000	N
JA0029C	N	10	N	<200	100	N	200	N	>2,000	N
JA0030C	N	10	<20	N	100	<100	200	N	>2,000	N
JA0031C	N	20	50	N	100	N	700	N	>2,000	N
JA0032C	N	20	20	N	150	<100	500	N	>2,000	N
JA0033C	N	20	20	N	150	<100	700	N	>2,000	N
JA0034C	N	20	<20	N	200	150	1,000	N	>2,000	N
JA0035C	N	10	50	N	200	N	500	N	>2,000	N
JA0036C	N	15	100	1,500	300	N	200	N	2,000	N
JA0038C	N	<10	N	N	100	N	200	<500	1,000	N
JA0039C	N	10	30	N	200	150	1,000	N	>2,000	N
JA0040C	N	10	50	N	200	N	1,000	<500	>2,000	N
JA0041C	N	10	<20	N	200	N	500	<500	>2,000	N
JA0043C	N	10	50	N	200	N	700	N	>2,000	N
JA0044C	N	10	20	500	300	1,000	500	N	>2,000	N
JA0045C	N	10	<20	N	300	<100	500	N	>2,000	N
JA0046C	N	20	<20	1,000	200	N	300	1,000	>2,000	N
JA0047C	N	10	<20	N	200	500	500	N	>2,000	N
JA0048C	N	15	<20	N	200	150	200	N	>2,000	N
JA0049C	N	20	<20	N	500	N	1,000	N	>2,000	N
JA0050C	N	20	200	<200	500	N	500	N	>2,000	N
JA0051C	N	20	50	500	500	N	500	N	>2,000	N
JA0052C	N	10	50	500	200	N	500	N	>2,000	N
JA0053C	N	20	70	500	300	200	500	N	>2,000	N
JA0054C	N	20	50	N	200	N	500	N	>2,000	N
JA0055C	N	20	<20	500	200	N	500	N	>2,000	<200
JA0056C	N	30	200	500	200	N	500	N	>2,000	200
JA0058C	N	30	20	<200	200	N	500	N	>2,000	200
JA0059C	N	20	N	1,000	200	N	200	N	>2,000	N
JA0060C	N	20	50	500	200	100	500	N	>2,000	200
JA0061C	N	20	N	1,000	200	N	200	<500	2,000	N
JA0062C	N	30	N	700	200	<100	200	<500	500	N
JA0063C	N	20	20	200	300	N	700	N	>2,000	N
JA0064C	N	<10	N	N	100	N	100	<500	200	N
JA0065C	N	<10	N	N	200	N	500	N	>2,000	N
JA0066C	N	20	<20	N	200	100	500	N	>2,000	N

TABLE 4.--Spectrographic analyses of heavy-mineral concentrates from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
JA0067C	58 15 38	134 52 42	1.00	2.00	5.0	>2.00	1,000	N	N	N	50	1,000
JA0068C	58 15 43	134 53 14	1.50	1.50	5.0	>2.00	1,000	N	N	N	50	700
JA0069C	58 21 2	134 57 24	1.00	1.50	5.0	>2.00	1,000	N	N	N	50	500
JA0070C	58 16 32	134 30 41	1.00	1.00	2.0	2.00	500	N	N	N	500	2,000
JA0075C	58 18 43	134 33 45	.50	.50	1.5	>2.00	500	N	N	N	200	>10,000
JA0076C	58 18 47	134 33 49	1.00	.50	1.5	>2.00	700	N	N	N	100	>10,000
JA0078C	58 9 34	134 40 33	1.50	.50	1.5	>2.00	500	N	N	N	50	>10,000
JA0081C	58 8 2	134 30 30	.20	.20	2.0	1.00	200	N	N	N	>5,000	>10,000
JA0082C	58 6 58	134 28 3	.70	.70	2.0	>2.00	300	N	N	N	5,000	>10,000
JA0083C	58 10 31	134 33 18	.70	.70	3.0	>2.00	500	N	N	N	1,500	7,000
JA0084C	58 8 44	134 10 57	1.00	.20	2.0	>2.00	1,000	N	N	N	100	5,000
JA0085C	58 7 25	134 44 57	.70	.70	2.0	>2.00	500	N	N	N	100	3,000
JA0086C	58 4 30	134 46 9	5.00	.70	2.0	>2.00	500	700.0	N	>1,000	50	5,000
JA0087C	58 0 31	134 44 59	1.00	.50	2.0	>2.00	500	N	N	N	50	7,000
JA0088C	58 0 26	134 44 57	1.00	.50	7.0	>2.00	700	N	N	N	100	10,000
JA0089C	58 2 19	134 46 56	1.00	.50	5.0	>2.00	200	N	N	N	200	2,000
JA0092C	58 2 40	134 58 19	5.00	1.50	3.0	>2.00	700	N	N	N	100	>10,000
JA0093C	58 3 9	135 0 49	2.00	1.00	2.0	>2.00	500	N	N	N	70	>10,000
JA0094C	58 3 22	135 4 18	10.00	.70	2.0	2.00	500	N	500	N	100	>10,000
JA0096C	58 19 19	134 28 55	2.00	.50	2.0	>2.00	500	N	1,000	N	2,000	10,000
JA0097C	58 18 17	134 27 10	1.00	1.00	2.0	>2.00	700	N	N	N	70	5,000
JA0098C	58 17 50	134 26 13	3.00	.50	1.5	>2.00	300	N	N	N	100	>10,000
JA0099C	58 16 38	134 24 9	5.00	.70	1.5	>2.00	300	50.0	1,000	500	50	5,000
JA0136C	59 18 43	135 43 32	.15	.05	3.0	2.00	300	N	N	N	500	1,500
JA0140C	59 18 45	135 32 59	.30	.05	5.0	2.00	500	N	N	N	20	1,500
JA0144C	58 15 50	134 22 0	30.00	.05	1.0	.30	30	3.0	N	N	<20	10,000
JA0145C	58 24 30	134 32 56	10.00	.30	5.0	2.00	200	N	N	N	20	7,000
JA0146C	58 23 47	134 37 58	.70	.50	5.0	>2.00	300	200.0	700	1,000	150	1,500
JA0147C	58 20 0	134 27 49	.20	.50	5.0	>2.00	300	N	N	N	70	5,000
JA0150C	58 19 48	134 29 58	1.00	.70	5.0	>2.00	500	500.0	N	1,000	200	7,000
JA0151C	58 22 23	134 57 51	.20	1.00	2.0	1.50	200	N	N	N	500	2,000
JA0152C	58 13 24	134 46 51	2.00	.70	1.5	>2.00	300	N	N	N	20	>10,000
JA0153C	58 9 53	134 37 29	1.00	.50	2.0	>2.00	700	N	N	N	150	5,000
JA0154C	58 10 18	134 27 56	.50	1.00	1.5	>2.00	500	50.0	N	300	150	1,500
JA0155C	58 8 50	134 22 11	.50	.70	2.0	2.00	300	N	N	N	300	2,000
JA0156C	58 8 19	134 16 12	1.00	1.00	3.0	>2.00	1,000	N	N	N	200	5,000
JA0157C	58 8 16	134 16 22	.30	.50	1.5	>2.00	500	N	N	N	500	7,000
JA0158C	58 7 13	134 14 58	.50	1.00	2.0	>2.00	700	N	N	N	300	7,000
JA0160C	58 5 3	134 36 2	.50	.20	.7	>2.00	200	N	N	N	50	>10,000
JA0162C	58 5 11	134 37 4	.20	.50	10.0	.70	500	10.0	N	N	50	>10,000
JA0163C	58 5 10	134 36 57	.50	.20	1.5	>2.00	200	10.0	N	N	500	>10,000
JA0164C	58 5 5	134 37 18	.20	.30	10.0	1.00	300	N	N	N	100	>10,000
JA0165C	58 4 59	135 37 20	1.00	.30	1.5	2.00	200	20.0	N	N	50	>10,000
JA0166C	58 4 42	134 39 30	2.00	.70	2.0	>2.00	500	5.0	N	N	100	>10,000
JA0167C	58 4 38	134 39 23	.20	.20	2.0	2.00	200	2.0	N	N	20	>10,000

TABLE 4.--Spectrographic analyses of heavy-mineral concentrates from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
JA0067C	N	N	N	10	200	N	300	30	150	<10	20
JA0068C	N	N	N	10	200	N	200	10	100	N	<20
JA0069C	N	N	N	10	200	N	200	10	100	N	<20
JA0070C	N	N	N	10	200	N	150	<10	100	N	N
JA0075C	N	N	N	10	100	20	50	N	100	N	<20
JA0076C	N	N	N	20	200	10	50	N	150	N	70
JA0078C	N	N	N	10	150	N	<50	200	100	N	500
JA0081C	N	N	N	N	30	N	N	N	N	N	<20
JA0082C	N	N	N	<10	200	N	50	50	50	10	<20
JA0083C	N	N	N	<10	100	N	100	N	70	N	<20
JA0084C	N	N	N	<10	20	N	<50	10	500	N	20
JA0085C	N	N	N	<10	200	N	<50	N	50	N	500
JA0086C	N	N	N	50	100	50	100	20	50	70	100
JA0087C	N	N	N	<10	100	N	<50	N	100	N	<20
JA0088C	N	N	N	<10	100	N	<50	N	100	N	<20
JA0089C	N	N	N	10	500	N	<50	N	100	N	<20
JA0092C	N	N	N	100	100	20	500	<10	50	20	150
JA0093C	N	N	N	20	200	N	100	N	<50	<10	50
JA0094C	N	N	N	200	50	20	200	N	50	200	200
JA0096C	N	N	N	70	150	N	50	N	50	N	<20
JA0097C	N	N	N	<10	150	N	200	10	100	N	<20
JA0098C	N	N	N	100	100	50	200	<10	100	20	5,000
JA0099C	N	N	N	100	100	100	100	N	<50	20	1,000
JA0136C	N	N	N	N	N	<10	100	N	N	N	N
JA0140C	<2	N	N	10	<20	<10	150	N	<50	N	20
JA0144C	N	N	N	200	N	1,000	N	500	N	150	150
JA0145C	<2	N	N	100	20	150	50	200	50	30	200
JA0146C	<2	N	N	10	70	10	N	N	N	50	1,000
JA0147C	<2	N	N	<10	150	<10	N	15	100	10	<20
JA0150C	N	20	N	20	200	N	70	N	50	N	50
JA0151C	N	N	<50	N	100	N	50	N	<50	N	N
JA0152C	N	N	N	50	100	20	100	N	50	<10	150
JA0153C	N	N	N	10	70	N	<50	N	70	N	50
JA0154C	N	N	100	10	200	N	<50	N	<50	N	100
JA0155C	N	N	N	<10	50	N	<50	10	<50	N	70
JA0156C	N	N	N	10	200	N	200	10	<50	N	70
JA0157C	N	N	200	10	100	N	50	200	50	N	<20
JA0158C	N	<20	<50	10	100	N	100	N	50	N	50
JA0160C	N	N	N	<10	50	N	N	N	<50	N	N
JA0162C	N	N	N	<10	150	20	200	N	<50	<10	N
JA0163C	N	N	N	15	100	N	<50	N	100	N	500
JA0164C	N	N	N	<10	100	10	100	N	<50	N	20
JA0165C	N	N	N	15	200	10	100	50	<50	<10	1,000
JA0166C	N	N	N	70	500	10	50	N	100	100	500
JA0167C	N	N	N	<10	100	N	N	N	<50	N	700

TABLE 4.--Spectrographic analyses of heavy-mineral concentrates from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
JA0067C	N	20	30	200	200	N	500	N	>2,000	N
JA0068C	N	20	30	200	200	N	500	N	>2,000	N
JA0069C	N	20	30	200	200	<100	300	N	>2,000	N
JA0070C	N	10	20	200	200	N	200	N	>2,000	N
JA0075C	N	10	N	1,000	200	N	150	N	>2,000	N
JA0076C	N	<10	N	2,000	300	2,000	150	N	>2,000	N
JA0078C	N	50	N	700	300	500	200	N	>2,000	<200
JA0081C	N	<10	N	5,000	100	300	150	N	700	N
JA0082C	N	30	N	1,000	200	1,000	200	N	>2,000	N
JA0083C	N	30	N	500	200	100	200	N	>2,000	<200
JA0084C	N	10	50	N	200	300	1,000	N	>2,000	N
JA0085C	N	20	N	N	200	N	300	N	>2,000	N
JA0086C	N	20	<20	<200	200	500	300	500	>2,000	N
JA0087C	N	15	N	1,000	200	100	200	N	>2,000	N
JA0088C	N	20	N	1,000	200	<100	300	N	>2,000	N
JA0089C	N	30	N	500	300	<100	500	N	>2,000	N
JA0092C	N	30	50	2,000	200	N	1,000	N	>2,000	N
JA0093C	N	20	N	1,500	200	N	200	N	>2,000	N
JA0094C	N	<10	N	1,500	100	N	200	2,000	>2,000	N
JA0096C	N	20	N	1,000	300	3,000	300	N	>2,000	N
JA0097C	N	20	20	200	300	200	300	N	>2,000	N
JA0098C	N	20	20	1,000	200	N	200	N	>2,000	N
JA0099C	N	20	500	200	300	150	500	<500	>2,000	N
JA0136C	N	15	N	200	100	N	500	N	>2,000	N
JA0140C	N	10	N	500	100	N	200	N	>2,000	N
JA0144C	N	N	N	10,000	50	N	30	N	1,500	N
JA0145C	N	10	N	5,000	100	N	150	N	>2,000	N
JA0146C	N	30	N	1,000	150	N	500	N	>2,000	N
JA0147C	N	15	N	200	500	N	300	N	>2,000	N
JA0150C	N	20	N	1,000	300	150	200	N	>2,000	N
JA0151C	N	<10	<20	N	100	<100	150	N	>2,000	N
JA0152C	N	<10	<20	2,000	200	100	500	N	>2,000	N
JA0153C	N	20	50	N	200	100	1,000	N	>2,000	<200
JA0154C	N	20	50	N	150	100	500	N	>2,000	200
JA0155C	200	10	N	200	70	<100	200	N	>2,000	200
JA0156C	N	20	50	5,000	100	300	500	N	>2,000	N
JA0157C	N	20	N	500	150	N	300	N	>2,000	N
JA0158C	N	20	<20	500	150	N	300	N	>2,000	200
JA0160C	N	10	N	3,000	100	N	100	500	1,000	N
JA0162C	N	<10	N	1,000	100	N	200	<500	500	N
JA0163C	200	20	N	3,000	100	1,000	100	N	>2,000	N
JA0164C	N	<10	N	1,000	100	<100	200	N	700	N
JA0165C	N	20	N	5,000	100	N	200	1,000	500	N
JA0166C	<200	20	N	2,000	300	300	200	N	2,000	N
JA0167C	N	10	N	2,000	100	N	100	N	>2,000	N

TABLE 4.--Spectrographic analyses of heavy-mineral concentrates from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
JA0168C	58 18 45	134 27 41	2.00	.50	1.5	>2.00	300	50.0	N	100	1,500	>10,000
JA0169C	58 17 5	134 24 52	2.00	.30	2.0	>2.00	500	3.0	N	N	100	3,000
JA0170C	58 15 10	134 20 50	1.50	.70	7.0	>2.00	700	N	N	N	500	>10,000
JA0171C	58 26 30	134 38 40	1.00	.50	2.0	>2.00	500	N	N	N	100	5,000
JA0172C	58 26 31	134 38 49	1.00	.50	1.5	>2.00	300	5.0	N	N	1,500	>10,000
JA0174C	58 23 3	134 39 59	1.00	.50	5.0	1.00	1,000	N	N	N	100	2,000
JA0175C	58 23 8	134 39 52	.50	1.00	2.0	>2.00	500	N	N	N	50	2,000
JA0177C	58 13 50	134 15 58	1.00	.30	1.5	1.00	200	N	N	N	20	>10,000
JA0178C	58 12 30	134 9 49	2.00	.20	1.5	2.00	200	2.0	N	N	20	>10,000
JA0179C	58 15 50	134 7 38	.50	.20	7.0	>2.00	700	<1.0	N	N	50	>10,000
JA0180C	58 27 23	134 32 1	.20	.05	3.0	2.00	500	N	N	N	50	700
JA0181C	58 27 47	134 30 0	.20	.10	2.0	2.00	200	N	N	N	50	1,000
JA0182C	58 29 53	134 34 3	1.00	.70	10.0	>2.00	500	N	N	N	50	1,500
JA0184C	58 0 17	134 26 2	.50	.50	15.0	>2.00	500	N	N	N	500	10,000
JA0185C	58 0 18	134 25 56	1.00	.20	5.0	>2.00	500	N	N	N	70	1,000
JA0186C	58 0 5	134 20 45	.70	.70	10.0	>2.00	500	N	N	N	>5,000	>10,000
JA0187C	58 0 2	134 20 22	1.00	5.00	5.0	>2.00	1,000	N	N	N	5,000	10,000
JA0188C	58 3 3	134 21 5	.50	7.00	5.0	2.00	200	N	N	N	200	5,000
JA0189C	58 2 48	134 21 0	.50	1.50	10.0	>2.00	500	N	N	N	3,000	1,000
JA0191C	58 2 43	134 19 41	.50	1.00	1.5	>2.00	200	N	N	N	100	1,000
JA0192C	58 2 48	134 19 50	.50	.70	2.0	>2.00	500	N	N	N	70	1,500
JA0193C	58 7 43	134 2 36	.20	.30	2.0	2.00	200	N	N	N	70	10,000
JA0194C	58 7 27	134 2 12	.50	.50	2.0	>2.00	500	N	N	N	150	>10,000
JA0195C	58 32 14	134 49 54	.70	.50	7.0	1.00	1,000	50.0	N	500	500	>10,000
JA0196C	58 33 30	134 52 1	.50	1.50	7.0	>2.00	500	N	N	N	500	3,000
JA0197C	58 35 54	134 54 28	.50	.70	1.5	1.00	200	N	N	N	200	1,500
JA0198C	58 37 11	134 56 0	.50	1.00	2.0	>2.00	500	N	N	N	70	1,500
JA0201C	58 16 1	134 22 58	3.00	.20	5.0	2.00	500	5.0	N	50	100	>10,000
JA0202C	58 3 32	134 9 18	1.00	.70	10.0	.50	1,000	N	N	N	200	300
JA0203C	58 3 25	134 9 13	.50	.70	2.0	1.00	300	N	N	N	100	2,000
JA0205C	58 1 2	134 11 14	1.50	.50	1.5	>2.00	300	N	N	N	50	2,000
JA0206C	58 1 2	134 11 7	1.00	.50	1.5	2.00	300	N	N	N	50	1,000
JA0207C	58 0 58	134 11 4	1.00	.50	1.5	2.00	200	N	N	N	70	700
JA0208C	58 4 53	134 16 27	2.00	.50	1.5	>2.00	200	10.0	N	N	200	3,000
JA0209C	58 4 52	134 16 17	.50	.50	1.5	>2.00	300	N	N	N	100	3,000
JA0210C	58 4 34	134 15 36	.50	.50	1.5	>2.00	500	N	N	N	100	3,000
JA0212C	58 2 0	134 17 57	.50	.20	1.5	2.00	200	N	N	N	100	1,000
JA0213C	58 2 9	134 18 14	.50	.50	1.5	>2.00	700	N	N	N	100	1,500
JA0214C	58 3 51	134 24 52	1.00	10.00	5.0	2.00	200	N	N	N	200	700
JA0215C	58 2 3	134 20 35	.50	2.00	2.0	>2.00	200	N	N	N	200	100
JA0216C	58 11 50	134 19 21	.50	.50	2.0	1.50	300	N	N	N	200	3,000
JA0217C	58 12 30	134 22 8	1.00	.70	5.0	>2.00	1,000	70.0	N	N	500	5,000
JA0218C	58 12 59	134 23 31	.70	.30	1.5	2.00	300	N	N	N	50	3,000
JA0219C	58 13 35	134 33 33	.70	.20	1.5	1.00	200	N	N	N	50	1,500
JA0220C	58 13 55	134 35 25	.50	.20	1.5	1.50	200	50.0	N	150	50	1,000

TABLE 4.--Spectrographic analyses of heavy-mineral concentrates from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
JA0168C	N	300	N	30	100	20	<50	10	100	N	1,000
JA0169C	N	N	N	20	150	N	100	<10	100	N	20
JA0170C	N	N	100	<10	70	N	300	<10	<50	N	50
JA0171C	N	N	<50	<10	100	N	<50	N	N	N	20
JA0172C	N	N	200	<10	150	1,000	100	N	<50	N	5,000
JA0174C	N	N	N	<10	50	<10	500	N	N	N	100
JA0175C	N	20	50	<10	100	N	100	N	50	N	<20
JA0177C	N	N	N	<10	50	N	50	N	N	N	20,000
JA0178C	N	N	N	50	100	N	N	N	70	10	500
JA0179C	N	N	N	10	100	N	100	<10	<50	N	<20
JA0180C	N	N	<50	50	<20	N	200	10	<50	N	<20
JA0181C	N	N	100	50	50	N	200	<10	<50	N	50
JA0182C	N	N	N	50	50	N	300	20	N	N	100
JA0184C	N	N	N	10	200	N	300	10	50	N	<20
JA0185C	N	N	N	20	70	N	200	10	70	N	50
JA0186C	N	N	N	<10	100	N	50	30	50	N	50
JA0187C	N	N	N	20	100	N	100	100	50	N	<20
JA0188C	N	N	N	10	100	N	50	N	50	N	N
JA0189C	N	N	N	10	70	N	200	20	50	N	<20
JA0191C	N	N	50	<10	70	N	N	N	50	N	<20
JA0192C	N	N	<50	<10	50	N	50	N	<50	N	50
JA0193C	N	N	N	<10	70	N	N	N	<50	N	300
JA0194C	N	N	<50	<10	50	N	N	<10	<50	N	<20
JA0195C	N	N	N	N	<20	50	N	N	N	N	20
JA0196C	N	N	N	10	100	N	200	N	70	N	<20
JA0197C	N	N	N	<10	20	10	N	N	N	N	150
JA0198C	N	N	<50	10	100	N	70	N	<50	N	200
JA0201C	N	30	N	20	100	50	500	30	50	N	10,000
JA0202C	N	N	N	10	70	10	200	N	N	N	200
JA0203C	N	N	<50	<10	50	<10	100	N	<50	N	<20
JA0205C	N	N	<50	<10	70	N	100	20	<50	N	20
JA0206C	N	N	<50	<10	70	20	50	N	<50	N	20
JA0207C	N	N	<50	<10	50	N	50	N	<50	N	20
JA0208C	N	N	<50	70	100	N	50	N	<50	N	20
JA0209C	N	N	<50	<10	70	N	50	N	<50	N	20
JA0210C	N	N	<50	10	100	N	<50	100	<50	<10	70
JA0212C	N	N	N	<10	50	N	<50	<10	<50	N	20
JA0213C	N	N	N	10	70	N	50	500	<50	N	20
JA0214C	N	N	N	10	50	N	50	10	50	N	<20
JA0215C	N	N	N	10	100	N	50	10	50	N	50
JA0216C	N	N	N	<10	50	N	50	N	<50	N	<20
JA0217C	N	N	N	10	70	20	200	<10	<50	N	300
JA0218C	N	N	N	<10	70	N	50	N	50	N	20
JA0219C	N	N	N	<10	30	N	N	N	N	N	20
JA0220C	N	<20	N	20	200	N	<50	N	N	N	300

TABLE 4.--Spectrographic analyses of heavy-mineral concentrates from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
JA0168C	5,000	N	2,000	1,000	200	1,000	200	N	>2,000	N
JA0169C	N	<10	100	500	300	200	200	N	>2,000	N
JA0170C	N	<10	<20	2,000	200	N	200	10,000	>2,000	N
JA0171C	N	30	N	<200	200	N	500	N	>2,000	N
JA0172C	N	30	N	3,000	200	200	500	N	>2,000	N
JA0174C	N	<10	N	1,000	100	N	200	N	>2,000	N
JA0175C	N	20	N	N	100	N	200	N	>2,000	N
JA0177C	N	<10	N	5,000	100	N	200	N	>2,000	N
JA0178C	N	10	N	2,000	300	200	200	N	1,000	N
JA0179C	N	<10	<20	200	200	N	500	N	>2,000	N
JA0180C	N	10	<20	200	100	N	500	N	>2,000	N
JA0181C	N	20	<20	N	100	N	300	N	>2,000	N
JA0182C	N	20	N	2,000	200	N	500	N	>2,000	N
JA0184C	N	20	20	<200	200	100	1,000	N	>2,000	N
JA0185C	N	<10	50	500	100	N	300	N	>2,000	N
JA0186C	N	<10	20	2,000	100	500	200	<500	>2,000	N
JA0187C	N	20	N	700	200	500	300	N	>2,000	N
JA0188C	N	<10	N	N	150	N	200	N	>2,000	N
JA0189C	N	<10	<20	1,000	200	N	300	N	>2,000	N
JA0191C	N	20	N	N	150	N	150	N	>2,000	N
JA0192C	N	20	N	1,000	100	300	300	N	>2,000	N
JA0193C	N	10	N	1,000	100	N	200	N	>2,000	N
JA0194C	N	10	N	<200	200	100	200	N	>2,000	N
JA0195C	N	<10	N	N	100	7,000	70	N	>2,000	N
JA0196C	N	20	20	1,000	150	500	500	N	>2,000	N
JA0197C	N	<10	N	1,000	100	N	100	N	>2,000	N
JA0198C	N	20	20	N	150	N	200	N	>2,000	N
JA0201C	200	<10	20	1,500	200	100	500	N	>2,000	N
JA0202C	N	10	N	2,000	100	N	200	N	>2,000	N
JA0203C	N	10	N	1,000	100	N	200	N	>2,000	200
JA0205C	N	20	20	200	150	100	300	N	>2,000	N
JA0206C	N	20	<20	500	100	150	200	N	>2,000	N
JA0207C	N	20	N	500	100	N	200	N	>2,000	N
JA0208C	N	20	N	200	100	100	300	N	>2,000	N
JA0209C	N	20	N	500	100	<100	200	N	>2,000	N
JA0210C	N	20	<20	<200	100	<100	200	N	>2,000	200
JA0212C	N	10	N	500	70	<100	100	N	>2,000	500
JA0213C	N	10	N	500	100	N	200	N	>2,000	N
JA0214C	N	N	N	200	100	N	200	N	>2,000	N
JA0215C	N	10	20	200	200	N	300	N	>2,000	<200
JA0216C	N	20	N	1,000	100	<100	200	N	>2,000	N
JA0217C	N	20	70	2,000	200	N	300	3,000	>2,000	N
JA0218C	N	10	N	700	200	N	200	N	>2,000	N
JA0219C	N	<10	N	700	100	N	100	N	>2,000	N
JA0220C	N	<10	N	500	150	500	100	N	>2,000	N

TABLE 4.--Spectrographic analyses of heavy-mineral concentrates from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
JA0221C	58 27 50	134 29 16	.50	.10	2.0	>2.00	300	N	N	N	50	700
JA0222C	58 30 2	134 31 58	.50	.05	7.0	2.00	500	N	N	N	50	500
JA0223C	58 31 15	134 31 39	1.00	.20	2.0	2.00	300	5.0	N	N	50	500
JA0224C	58 26 25	134 27 55	.50	.70	1.5	>2.00	200	N	N	N	20	5,000
JA0225C	58 25 47	134 25 44	2.00	1.00	5.0	>2.00	300	N	N	N	50	10,000
JA0226C	58 26 23	134 27 50	.20	.20	2.0	1.50	300	N	N	N	50	1,000
JA0227C	58 4 23	134 31 35	.70	1.00	3.0	2.00	200	N	N	N	100	>10,000
JA0228C	58 4 28	134 31 41	.70	.10	.2	>2.00	100	N	N	N	200	>10,000
JA0229C	58 5 0	134 29 10	.50	5.00	5.0	1.00	500	N	N	N	150	>10,000
JA0230C	58 5 2	134 29 19	.30	.20	1.0	1.50	150	N	N	N	100	>10,000
JA0231C	58 5 30	134 25 25	.10	.10	1.0	>2.00	100	N	N	N	50	3,000
JA0232C	58 5 22	134 25 28	.70	1.00	1.5	>2.00	200	N	N	N	700	>10,000
JA0233C	58 4 23	134 0 40	.50	.20	3.0	2.00	300	N	N	N	50	>10,000
JA0234C	58 4 39	134 0 45	.50	.20	2.0	1.50	200	N	N	N	20	3,000
JA0235C	58 4 41	134 1 11	.50	.50	2.0	>2.00	1,000	10.0	N	30	200	2,000
JA0236C	58 32 22	134 50 28	.50	2.00	5.0	>2.00	500	N	N	N	50	5,000
JA0238C	58 34 19	134 52 57	.50	.50	10.0	1.00	1,000	N	N	N	500	1,500
JA0239C	58 35 36	134 54 0	.70	1.00	3.0	>2.00	700	1.0	N	N	200	5,000
JA0240C	58 12 15	134 4 49	1.00	.30	2.0	>2.00	500	N	N	N	50	10,000
JA0241C	58 28 2	135 7 28	1.00	5.00	7.0	2.00	500	10.0	N	N	1,000	700
JA0242C	58 26 15	135 8 40	1.00	1.50	5.0	>2.00	1,000	N	N	N	50	100
JA0243C	58 22 28	135 13 58	2.00	3.00	10.0	>2.00	1,000	2.0	2,000	N	200	3,000
JA0245C	58 21 5	135 3 29	.50	1.00	2.0	1.50	200	N	N	N	70	10,000
JA0250C	58 5 13	135 11 34	.50	.50	2.0	2.00	300	N	N	N	50	>10,000
JA0251C	58 3 37	135 17 19	1.00	2.00	5.0	2.00	500	N	N	N	50	>10,000
JA0252C	58 3 41	135 17 19	.50	.50	1.5	2.00	500	N	N	N	20	>10,000
JA0253C	58 5 40	135 24 3	.70	.70	2.0	>2.00	500	N	N	N	100	>10,000
JA0255C	58 2 2	135 28 39	2.00	5.00	2.0	>2.00	1,000	N	N	N	100	1,500
JA0256C	58 2 5	135 28 45	2.00	.70	2.0	>2.00	500	N	N	N	700	1,000
JA0257C	58 10 20	135 32 39	3.00	2.00	1.5	2.00	300	N	N	N	50	>10,000
JA0258C	58 0 50	135 33 28	3.00	.70	1.0	>2.00	200	N	7,000	N	150	10,000
JA0260C	58 3 48	135 46 44	3.00	.20	2.0	1.50	200	N	N	N	>5,000	>10,000
JA0261C	58 1 45	135 41 46	2.00	2.00	1.0	>2.00	200	N	N	N	300	3,000
JA0262C	58 2 13	135 42 21	15.00	.50	1.0	.70	200	N	N	N	20	5,000
JA0263C	58 5 48	135 35 20	5.00	1.00	2.0	2.00	300	N	N	N	50	>10,000
JA0264C	58 5 51	135 35 15	3.00	1.00	2.0	>2.00	1,000	N	N	N	70	>10,000
JA0265C	58 6 28	135 32 13	2.00	1.00	5.0	>2.00	1,000	N	N	N	70	>10,000
JA0266C	58 10 53	135 36 41	.50	.50	1.5	2.00	200	N	N	N	50	>10,000
JA0267C	58 13 54	135 43 34	1.00	.70	3.0	2.00	500	N	N	N	100	>10,000
JA0268C	58 13 57	135 43 40	1.00	.70	1.5	2.00	500	N	N	N	50	>10,000
JA0269C	58 14 30	135 44 20	1.50	.50	2.0	>2.00	1,000	N	N	N	200	500
JA0272C	58 26 38	135 15 46	1.00	3.00	3.0	>2.00	1,000	N	N	N	200	200
JA0273C	58 26 58	135 15 34	2.00	3.00	7.0	>2.00	1,000	N	N	N	1,500	200
JA0274C	58 30 16	135 8 15	2.00	1.00	2.0	>2.00	700	N	N	N	50	200
JA0275C	58 32 18	135 12 48	5.00	7.00	10.0	2.00	1,000	N	N	N	200	1,000

TABLE 4.--Spectrographic analyses of heavy-mineral concentrates from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
JA0221C	N	N	N	20	20	N	200	N	N	N	20
JA0222C	N	N	N	10	20	N	200	20	N	N	20
JA0223C	N	50	N	70	<20	N	100	30	N	N	50
JA0224C	N	<20	N	50	200	N	100	100	70	500	100
JA0225C	N	N	N	50	200	N	200	20	100	150	100
JA0226C	N	N	N	N	<20	N	50	N	N	N	30
JA0227C	N	N	N	10	70	N	50	N	<50	N	N
JA0228C	N	N	N	10	20	20	N	N	70	N	<20
JA0229C	N	N	N	10	50	N	100	<10	50	N	20
JA0230C	N	N	N	<10	50	N	N	N	N	N	100
JA0231C	N	N	300	<10	70	N	50	N	N	N	70
JA0232C	N	N	N	10	70	N	100	N	<50	N	150
JA0233C	N	N	N	10	70	N	50	N	70	N	100
JA0234C	N	N	N	15	30	N	N	N	N	N	500
JA0235C	N	N	N	15	70	N	100	N	<50	N	50
JA0236C	N	N	N	10	50	N	100	N	<50	N	20
JA0238C	N	N	N	10	50	10	500	<10	<50	N	<20
JA0239C	N	N	N	20	100	N	100	20	100	N	700
JA0240C	N	N	N	20	70	N	N	N	50	N	50
JA0241C	N	N	N	20	50	N	300	<10	50	N	300
JA0242C	N	N	N	15	50	N	1,000	50	150	N	<20
JA0243C	N	N	N	70	100	20	500	30	70	N	2,000
JA0245C	N	N	<50	<10	70	N	<50	N	N	N	100
JA0250C	N	N	<50	10	100	N	200	N	50	N	N
JA0251C	N	N	N	10	70	10	100	100	100	N	50
JA0252C	N	N	N	<10	70	N	200	N	N	N	N
JA0253C	N	50	N	<10	100	50	300	150	200	N	10,000
JA0255C	N	500	N	30	100	N	200	<10	150	N	500
JA0256C	N	N	N	20	100	N	100	N	50	N	20
JA0257C	N	N	N	100	100	10	200	N	50	N	200
JA0258C	N	N	N	100	100	200	<50	N	50	N	50
JA0260C	N	N	N	70	20	10	700	N	N	20	500
JA0261C	N	N	100	70	150	N	<50	N	<50	N	20
JA0262C	N	N	N	200	20	200	50	N	<50	200	200
JA0263C	N	N	N	100	150	100	300	N	<50	20	150
JA0264C	N	N	N	100	200	20	2,000	N	100	50	70
JA0265C	N	N	N	20	150	100	500	10	100	10	<20
JA0266C	N	N	N	10	50	10	300	N	100	N	100
JA0267C	N	N	300	10	70	N	2,000	N	50	N	50
JA0268C	N	N	<50	20	100	10	500	<10	<50	N	50
JA0269C	N	N	N	20	30	N	1,000	20	100	N	<20
JA0272C	N	N	N	10	50	N	1,000	<10	70	N	N
JA0273C	N	N	N	30	50	20	1,000	20	100	N	N
JA0274C	N	N	N	50	70	N	500	20	150	N	20
JA0275C	N	N	N	70	150	20	200	<10	<50	50	70

TABLE 4.--Spectrographic analyses of heavy-mineral concentrates from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
JA0221C	N	20	20	1,000	150	N	200	N	>2,000	N
JA0222C	N	20	N	1,000	100	N	200	N	>2,000	N
JA0223C	N	30	20	500	150	N	200	N	>2,000	N
JA0224C	N	10	50	N	150	150	200	N	>2,000	N
JA0225C	N	10	50	<200	150	<100	300	N	>2,000	200
JA0226C	N	30	N	1,000	100	N	300	N	>2,000	N
JA0227C	N	10	N	2,000	100	N	150	N	>2,000	N
JA0228C	N	10	N	2,000	100	<100	50	N	700	N
JA0229C	N	N	N	2,000	70	N	70	1,000	>2,000	N
JA0230C	N	<10	N	5,000	100	N	70	700	>2,000	N
JA0231C	N	70	50	N	100	<100	500	N	>2,000	200
JA0232C	N	20	N	3,000	100	<100	200	N	>2,000	N
JA0233C	N	10	100	2,000	150	N	150	N	>2,000	N
JA0234C	N	10	N	700	50	N	100	N	>2,000	N
JA0235C	N	10	N	1,000	200	N	200	N	>2,000	500
JA0236C	N	<10	<20	500	100	N	200	N	>2,000	N
JA0238C	N	10	N	1,000	200	N	200	N	>2,000	N
JA0239C	N	20	700	700	200	N	300	N	>2,000	N
JA0240C	N	10	N	1,000	200	<100	200	N	>2,000	N
JA0241C	N	<10	N	1,000	150	N	150	N	2,000	N
JA0242C	N	20	50	N	200	N	500	N	>2,000	N
JA0243C	N	20	<20	1,000	200	200	200	N	>2,000	N
JA0245C	N	10	N	700	100	150	150	2,000	>2,000	N
JA0250C	N	10	N	5,000	100	N	200	3,000	>2,000	<200
JA0251C	N	10	N	2,000	100	1,000	300	1,000	>2,000	N
JA0252C	N	20	N	>10,000	100	N	150	1,000	>2,000	N
JA0253C	N	20	20	3,000	150	2,000	300	<500	>2,000	N
JA0255C	N	20	N	1,000	200	200	100	N	>2,000	N
JA0256C	N	30	70	N	500	N	200	N	>2,000	N
JA0257C	N	10	N	1,500	100	<100	100	3,000	>2,000	N
JA0258C	N	20	20	<200	300	<100	150	N	>2,000	N
JA0260C	N	<10	N	2,000	100	N	200	N	>2,000	N
JA0261C	N	30	<20	N	200	N	300	N	>2,000	N
JA0262C	N	N	N	700	100	N	500	N	>2,000	N
JA0263C	N	20	<20	>10,000	100	N	200	5,000	2,000	N
JA0264C	N	30	<20	2,000	200	N	200	2,000	>2,000	N
JA0265C	N	20	20	2,000	200	N	500	700	>2,000	N
JA0266C	N	10	500	10,000	50	N	200	N	>2,000	N
JA0267C	N	30	N	10,000	200	N	500	1,500	>2,000	N
JA0268C	N	20	N	3,000	150	<100	300	N	>2,000	700
JA0269C	N	10	50	N	200	N	500	1,000	>2,000	N
JA0272C	N	10	70	N	200	N	500	500	2,000	N
JA0273C	N	20	50	N	200	N	500	500	2,000	N
JA0274C	N	20	70	N	200	100	500	500	>2,000	N
JA0275C	N	50	N	2,000	200	<100	200	<500	>2,000	N

TABLE 4.--Spectrographic analyses of heavy-mineral concentrates from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
JA0276C	58 33 21	135 10 14	2.00	3.00	5.0	>2.00	700	N	N	N	100	1,000
JA0277C	58 35 49	135 13 17	7.00	.70	2.0	2.00	300	N	N	N	50	7,000
JA0278C	58 37 59	134 49 30	30.00	.10	1.0	1.00	300	N	N	N	N	1,500
JA0279C	58 38 2	134 49 32	.50	.10	2.0	>2.00	300	N	N	N	20	500
JA0280C	58 36 41	134 47 39	.70	1.00	2.0	>2.00	700	N	N	N	20	150
JA0281C	58 36 42	134 47 44	5.00	.50	5.0	>2.00	500	N	3,000	N	500	10,000
JA0282C	58 18 3	134 13 32	1.00	2.00	7.0	>2.00	1,000	N	N	N	200	3,000
JA0283C	58 20 22	134 9 48	.50	.50	10.0	>2.00	1,000	N	N	N	20	5,000
JA0284C	58 20 50	134 9 52	1.00	3.00	10.0	>2.00	1,000	N	N	N	20	7,000
JA0285C	58 21 13	134 3 48	.50	.20	10.0	>2.00	1,000	N	N	N	20	1,000
JA0286C	58 23 30	134 5 40	.50	1.00	5.0	>2.00	700	N	N	N	20	1,000
JA0287C	58 22 3	134 11 29	.30	.10	15.0	2.00	1,000	N	N	N	<20	700
JA0288C	58 22 9	134 11 31	.30	.10	10.0	2.00	1,000	N	N	N	20	10,000
JA0289C	58 22 48	134 8 55	.20	.15	15.0	>2.00	1,000	N	N	N	20	2,000
JA0290C	58 24 23	134 12 7	.20	.15	3.0	>2.00	500	N	N	N	50	1,000
JA0291C	58 25 27	134 8 50	.70	10.00	15.0	>2.00	2,000	N	N	N	70	700
JA0292C	58 25 40	134 12 20	.70	.20	5.0	>2.00	500	N	N	N	50	1,500
JA0293C	58 42 21	135 14 10	.20	.50	10.0	1.00	700	N	N	N	50	>10,000
JA0294C	58 44 49	135 14 11	2.00	.50	5.0	1.50	700	50.0	N	500	5,000	>10,000
JA0295C	58 47 29	135 25 5	1.00	.70	5.0	>2.00	700	N	N	N	1,500	>10,000
JA0296C	58 47 31	135 25 0	10.00	5.00	10.0	.50	700	100.0	1,000	N	20	>10,000
JA0297C	58 47 27	135 24 47	5.00	2.00	5.0	.70	200	N	N	N	200	>10,000
JA0298C	58 48 14	135 31 10	15.00	.20	1.5	.50	100	1.0	500	N	20	>10,000
JA0299C	58 48 15	135 31 10	1.00	.50	1.5	2.00	200	N	N	N	100	>10,000
JA0300C	58 16 23	134 19 9	.50	.30	1.5	>2.00	200	70.0	N	N	100	>10,000
JA0301C	58 6 29	134 12 0	.50	.50	2.0	>2.00	500	N	N	N	70	2,000
JA0302C	58 6 36	134 12 11	.70	.20	5.0	>2.00	1,000	N	N	N	100	1,000
JA0303C	58 1 47	134 7 15	.50	1.00	2.0	>2.00	500	N	N	N	150	3,000
JA0304C	58 1 7	134 6 5	.70	1.00	2.0	>2.00	500	N	N	N	200	3,000
JA0305C	58 0 47	134 5 56	.20	.50	1.5	>2.00	150	N	N	N	150	1,500
JA0306C	58 2 32	134 13 31	2.00	.70	2.0	>2.00	300	N	N	N	2,000	3,000
JA0307C	58 3 47	134 14 58	1.00	1.00	2.0	>2.00	700	20.0	N	300	50	3,000
JA0308C	58 6 10	134 20 28	.50	1.00	2.0	>2.00	500	N	N	N	50	10,000
JA0309C	58 2 28	134 19 8	.50	.30	1.5	>2.00	200	N	N	N	50	5,000
JA0310C	58 2 24	134 17 3	.50	.70	3.0	>2.00	500	N	N	N	200	3,000
JA0311C	58 2 19	134 17 5	.30	1.00	2.0	>2.00	300	N	N	N	100	2,000
JA0312C	58 2 46	134 19 55	.30	1.00	2.0	>2.00	300	N	N	N	50	1,000
JA0313C	58 14 47	134 20 12	1.00	.50	5.0	2.00	300	N	N	N	200	>10,000
JA0314C	58 13 48	134 18 25	5.00	.50	5.0	2.00	1,000	10.0	N	N	200	10,000
JA0315C	58 12 45	134 22 50	1.00	1.00	3.0	>2.00	500	N	N	N	50	5,000
JA0316C	58 13 45	134 27 7	.50	.70	1.5	.50	200	150.0	N	300	1,000	5,000
JA0317C	58 13 38	134 29 57	.20	.20	2.0	2.00	100	N	N	N	500	1,000
JA0318C	58 13 41	134 29 41	.70	.70	2.0	>2.00	500	N	N	N	100	1,500
JA0319C	58 15 2	134 37 44	.70	.70	1.5	>2.00	500	N	N	N	500	10,000
JA0320C	58 14 44	134 37 11	.70	.50	2.0	>2.00	700	50.0	N	N	70	1,000

TABLE 4.--Spectrographic analyses of heavy-mineral concentrates from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
JA0276C	N	N	N	30	200	N	100	N	<50	N	20
JA0277C	N	N	N	200	100	50	<50	N	50	200	100
JA0278C	N	N	N	1,000	<20	1,000	N	50	50	200	<20
JA0279C	N	<20	100	<10	<20	N	50	<10	50	N	N
JA0280C	N	N	<50	<10	50	N	100	20	70	N	N
JA0281C	N	N	N	200	100	20	200	20	70	20	1,000
JA0282C	N	N	N	15	150	20	100	<10	100	N	<20
JA0283C	N	N	N	10	20	N	500	10	70	N	20
JA0284C	N	<20	N	20	200	N	500	20	50	N	50
JA0285C	N	N	N	<10	20	N	500	<10	100	N	20
JA0286C	N	N	N	10	100	N	500	20	100	N	50
JA0287C	N	N	N	<10	20	N	1,000	20	N	N	50
JA0288C	N	N	<50	20	30	10	500	10	50	N	<20
JA0289C	N	N	<50	<10	20	N	1,000	20	50	N	<20
JA0290C	N	N	<50	10	50	N	700	100	50	N	150
JA0291C	N	N	N	10	200	<10	500	100	50	N	<20
JA0292C	N	N	N	10	100	N	300	30	70	N	<20
JA0293C	N	N	N	<10	20	<10	200	300	<50	N	N
JA0294C	N	300	<50	20	50	10	500	10	70	N	300
JA0295C	N	<20	N	<10	50	10	300	<10	<50	N	1,000
JA0296C	N	N	N	300	20	50	N	20	N	100	5,000
JA0297C	N	30	150	100	50	100	<50	N	N	50	1,000
JA0298C	N	N	N	200	<20	300	N	N	N	300	700
JA0299C	N	N	<50	10	100	20	100	N	N	N	200
JA0300C	N	N	N	10	100	N	N	N	100	N	200
JA0301C	N	N	<50	<10	100	N	100	N	50	N	50
JA0302C	N	N	N	10	50	N	50	50	150	N	<20
JA0303C	N	N	<50	<10	100	N	50	N	<50	N	50
JA0304C	N	N	N	10	200	N	50	N	100	N	100
JA0305C	N	N	N	<10	50	N	50	50	N	N	<20
JA0306C	N	N	N	70	70	10	50	N	50	N	20
JA0307C	N	N	<50	20	200	N	50	N	70	N	20
JA0308C	N	N	50	10	100	N	100	N	<50	N	20
JA0309C	N	N	N	10	150	N	100	N	50	N	<20
JA0310C	N	N	50	<10	100	N	100	N	N	N	150
JA0311C	N	70	50	10	200	N	50	10	<50	N	150
JA0312C	N	N	50	10	100	N	200	N	<50	N	<20
JA0313C	N	N	<50	20	70	N	100	N	<50	N	200
JA0314C	N	N	300	50	20	200	300	<10	<50	N	1,000
JA0315C	N	N	N	50	100	20	200	N	50	N	N
JA0316C	N	N	N	<10	50	20	N	N	N	N	N
JA0317C	N	N	N	<10	30	N	<50	N	N	N	500
JA0318C	N	N	N	10	200	10	<50	N	N	N	20
JA0319C	N	N	N	10	100	20	<50	N	50	N	<20
JA0320C	N	N	N	10	100	<10	50	N	<50	N	500

TABLE 4.--Spectrographic analyses of heavy-mineral concentrates from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
JA0276C	N	30	<20	1,000	200	N	200	N	>2,000	N
JA0277C	N	<10	N	700	100	N	200	N	2,000	N
JA0278C	N	N	N	N	100	N	200	N	>2,000	N
JA0279C	N	20	N	N	100	150	300	N	>2,000	N
JA0280C	N	20	20	N	200	N	500	N	>2,000	N
JA0281C	N	20	700	N	200	2,000	1,000	N	>2,000	N
JA0282C	N	20	20	700	300	<100	500	<500	500	N
JA0283C	N	20	<20	2,000	100	N	1,000	N	>2,000	N
JA0284C	N	30	70	N	150	N	1,000	N	>2,000	200
JA0285C	N	20	<20	1,500	100	N	1,000	N	>2,000	<200
JA0286C	N	20	70	N	200	100	1,000	N	>2,000	500
JA0287C	N	20	<20	2,000	100	<100	500	N	>2,000	200
JA0288C	N	20	20	1,500	100	200	1,000	N	>2,000	200
JA0289C	N	10	<20	2,000	100	N	500	N	>2,000	<200
JA0290C	N	20	20	1,000	150	300	500	N	>2,000	1,000
JA0291C	N	<10	30	<200	150	<100	1,500	N	>2,000	N
JA0292C	N	10	20	<200	200	N	500	N	>2,000	N
JA0293C	N	10	100	2,000	50	500	200	N	>2,000	N
JA0294C	N	10	N	5,000	200	N	300	N	>2,000	500
JA0295C	N	10	N	5,000	100	200	700	N	>2,000	<200
JA0296C	N	N	N	1,500	100	200	100	500	>2,000	N
JA0297C	N	N	N	2,000	50	N	100	5,000	>2,000	N
JA0298C	N	N	N	1,500	50	<100	100	500	>2,000	N
JA0299C	N	10	N	5,000	100	N	500	500	>2,000	200
JA0300C	N	15	700	3,000	300	200	200	N	>2,000	N
JA0301C	N	10	<20	700	150	100	300	N	>2,000	N
JA0302C	N	<10	50	N	200	1,000	1,000	N	>2,000	N
JA0303C	N	20	<20	700	150	N	300	N	>2,000	N
JA0304C	N	20	20	200	100	N	200	N	>2,000	N
JA0305C	N	20	N	200	100	N	300	N	>2,000	500
JA0306C	N	10	<20	500	100	<100	200	N	>2,000	N
JA0307C	N	20	<20	500	150	N	200	N	>2,000	N
JA0308C	N	30	N	500	150	N	500	N	>2,000	N
JA0309C	N	15	N	500	150	N	200	N	>2,000	1,000
JA0310C	N	30	N	500	100	100	500	1,000	>2,000	500
JA0311C	N	30	N	N	100	200	500	N	>2,000	200
JA0312C	N	30	N	1,000	100	N	500	N	>2,000	N
JA0313C	N	<10	N	2,000	100	100	200	1,500	>2,000	N
JA0314C	N	10	100	10,000	200	N	200	20,000	2,000	N
JA0315C	N	10	N	1,000	200	N	200	N	>2,000	N
JA0316C	N	<10	N	1,000	70	2,000	70	N	>2,000	N
JA0317C	N	10	N	500	100	200	150	N	>2,000	N
JA0318C	N	10	N	700	200	7,000	150	N	>2,000	500
JA0319C	N	N	N	500	200	1,500	150	N	>2,000	N
JA0320C	N	10	N	700	200	N	200	N	>2,000	<200

TABLE 4.--Spectrographic analyses of heavy-mineral concentrates from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
JA0321C	58 23 11	134 39 29	.50	1.00	5.0	>2.00	1,000	N	N	N	50	1,000
JA0322C	58 23 38	134 44 29	.10	.20	1.0	2.00	200	3.0	N	50	50	500
JA0323C	58 28 5	134 46 37	.50	2.00	2.0	>2.00	700	N	N	N	50	2,000
JA0324C	58 29 10	134 46 36	.70	3.00	5.0	>2.00	1,000	2.0	N	N	50	700
JA0325C	58 12 36	134 10 38	.70	.30	2.0	>2.00	300	N	N	N	100	>10,000
JA0326C	58 13 44	134 8 31	2.00	2.00	1.5	>2.00	700	2.0	N	N	200	>10,000
JA0327C	58 13 48	134 8 27	.70	.50	1.5	>2.00	300	N	N	N	300	>10,000
JA0328C	58 17 8	134 9 10	.70	.20	7.0	>2.00	1,000	1.0	N	N	100	>10,000
JA0329C	58 16 55	134 9 7	1.00	.30	7.0	>2.00	1,000	N	N	N	20	1,000
JA0330C	58 0 18	134 27 49	.70	.20	7.0	>2.00	500	N	N	N	1,500	700
JA0331C	58 0 15	134 27 51	.50	.30	10.0	>2.00	500	N	N	N	700	>10,000
JA0332C	58 3 8	134 28 58	.50	3.00	3.0	>2.00	300	N	N	N	20	2,000
JA0333C	58 3 3	134 29 0	.30	.50	15.0	>2.00	1,000	N	N	N	2,000	1,500
JA0334C	58 3 3	134 28 56	.50	.30	10.0	>2.00	300	N	N	N	20	100
JA0335C	58 3 6	134 26 40	.50	.20	15.0	>2.00	700	N	N	N	100	300
JA0336C	58 3 52	134 22 52	.70	10.00	7.0	>2.00	500	N	N	N	100	2,000
JA0337C	58 3 55	134 22 48	1.00	5.00	5.0	>2.00	700	N	N	N	1,000	>10,000
JA0338C	58 4 46	134 23 54	1.50	1.00	2.0	>2.00	500	N	N	N	100	700
JA0339C	58 3 50	134 25 40	.70	7.00	15.0	>2.00	500	N	N	N	100	>10,000
JA0340C	58 9 8	134 4 36	7.00	.50	1.0	2.00	500	N	N	N	50	>10,000
JA0341C	58 11 22	134 4 58	10.00	.50	2.0	>2.00	300	N	N	N	100	5,000
JA0342C	58 13 23	134 3 21	7.00	2.00	5.0	>2.00	500	N	N	N	50	>10,000
JA0343C	58 24 49	135 6 22	2.00	1.00	5.0	>2.00	700	N	N	N	50	2,000
JA0344C	58 24 47	135 6 18	10.00	1.50	5.0	>2.00	500	N	N	N	300	5,000
JA0345C	58 24 43	135 5 25	5.00	1.50	2.0	>2.00	500	N	N	N	100	>10,000
JA0346C	58 22 39	135 6 0	7.00	2.00	5.0	>2.00	500	N	N	N	100	3,000
JA0347C	58 22 44	135 6 3	5.00	5.00	2.0	>2.00	700	N	N	N	100	1,000
JA0348C	58 3 53	135 7 59	5.00	1.00	1.5	>2.00	500	N	N	N	100	>10,000
JA0349C	58 3 50	135 7 59	3.00	.70	3.0	2.00	500	N	N	N	70	>10,000
JA0351C	58 3 13	135 6 20	.15	.20	1.0	1.00	100	N	N	N	50	>10,000
JA0352C	58 1 55	135 16 43	.30	.50	2.0	.15	1,000	<1.0	N	N	50	>10,000
JA0353C	58 1 47	135 16 39	.15	.05	1.5	.01	200	N	N	N	50	>10,000
JA0354C	58 1 48	135 16 32	1.00	3.00	5.0	.30	200	N	500	N	5,000	>10,000
JA0355C	58 2 42	135 17 16	.30	.07	1.0	.05	200	N	N	N	50	>10,000
JA0357C	58 6 58	135 20 25	1.00	.70	3.0	1.00	200	N	N	N	50	>10,000
JA0358C	58 8 8	135 25 48	.15	.10	.7	.20	50	N	N	N	5,000	>10,000
JA0359C	58 4 7	135 22 50	.10	.07	1.5	1.00	70	N	N	N	150	10,000
JA0360C	58 4 6	135 23 0	.20	.10	10.0	.15	200	N	N	N	50	>10,000
JA0361C	58 3 35	135 29 5	.50	.07	15.0	.30	70	N	N	N	50	>10,000
JA0364C	58 4 17	135 44 6	.70	.70	1.0	2.00	150	N	N	N	300	10,000
JA0365C	58 3 3	135 46 58	.20	.10	2.0	.20	50	N	N	N	70	1,500
JA0366C	58 3 5	135 47 0	.15	.70	2.0	2.00	200	N	N	N	500	5,000
JA0367C	58 1 36	135 45 8	1.00	1.00	5.0	.50	200	N	N	N	500	500
JA0368C	58 1 34	135 44 58	1.00	1.00	3.0	.50	200	N	N	N	500	1,000
JA0369C	58 7 12	135 40 31	.20	.10	5.0	1.50	200	N	N	N	500	>10,000

TABLF 4.--Spectrographic analyses of heavy-mineral concentrates from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
JA0321C	N	N	150	<10	100	N	500	N	N	N	100
JA0322C	N	N	<50	<10	20	20	50	N	<50	N	N
JA0323C	N	N	<50	10	70	N	100	N	50	N	N
JA0324C	N	N	<50	15	150	N	500	10	50	N	700
JA0325C	N	N	N	15	200	N	N	N	100	N	<20
JA0326C	N	N	N	70	150	N	100	10	100	N	<20
JA0327C	N	N	N	20	200	N	N	<10	200	N	<20
JA0328C	N	N	N	20	200	N	200	<10	100	N	20
JA0329C	N	N	N	50	200	N	700	20	200	N	<20
JA0330C	N	N	N	100	200	N	300	20	50	N	N
JA0331C	N	N	N	10	150	N	300	N	<50	N	N
JA0332C	N	N	N	20	500	N	300	20	70	N	50
JA0333C	N	N	N	10	100	N	500	10	<50	N	N
JA0334C	N	N	N	10	200	N	500	<10	100	N	N
JA0335C	N	N	N	10	70	N	500	10	70	N	<20
JA0336C	N	N	N	15	100	N	100	N	50	N	<20
JA0337C	N	N	<50	10	150	10	100	N	50	N	20
JA0338C	N	N	100	30	150	N	200	10	<50	N	50
JA0339C	N	N	N	15	50	N	500	50	70	N	<20
JA0340C	N	N	N	500	50	100	N	100	<50	200	<20
JA0341C	N	N	<50	10	50	N	50	70	100	N	<20
JA0342C	N	N	<50	50	70	N	500	20	<50	N	<20
JA0343C	N	N	N	20	50	N	500	<10	50	N	70
JA0344C	N	N	N	20	50	N	500	<10	N	N	20
JA0345C	N	N	N	30	70	N	100	N	50	N	<20
JA0346C	N	N	N	10	70	N	200	N	50	N	<20
JA0347C	N	N	N	10	100	N	200	100	<50	N	<20
JA0348C	N	N	N	10	150	N	200	N	N	N	<20
JA0349C	N	N	700	10	100	10	700	N	50	N	100
JA0351C	N	N	100	N	<20	10	700	N	N	N	150
JA0352C	300	N	N	N	20	200	700	10	50	N	1,000
JA0353C	<2	N	150	N	<20	<10	200	N	<50	N	50
JA0354C	N	500	100	20	50	10	150	N	N	30	70
JA0355C	N	N	N	N	<20	10	200	N	N	N	50
JA0357C	N	N	N	30	20	<10	150	N	N	20	20
JA0358C	N	N	N	N	20	<10	100	N	N	N	20
JA0359C	N	<20	N	N	<20	<10	150	100	<50	N	200
JA0360C	2	N	N	N	<20	<10	150	N	N	N	50
JA0361C	3	N	N	<10	30	<10	150	N	<50	N	30
JA0364C	N	<20	N	30	150	10	100	N	N	20	50
JA0365C	N	<20	N	N	<20	<10	50	N	N	N	30
JA0366C	N	N	N	N	20	N	500	N	N	N	50
JA0367C	N	N	N	70	<20	10	1,000	N	N	20	20
JA0368C	N	N	N	30	<20	<10	300	200	<50	20	70
JA0369C	N	N	50	<10	20	<10	>2,000	N	N	N	20

TABLE 4.--Spectrographic analyses of heavy-mineral concentrates from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
JA0321C	N	20	N	2,000	200	N	500	N	>2,000	700
JA0322C	N	10	N	200	100	N	200	N	>2,000	200
JA0323C	N	N	<20	N	200	500	200	N	>2,000	N
JA0324C	N	20	30	N	200	500	1,000	N	>2,000	200
JA0325C	N	<10	N	1,000	300	1,000	200	N	>2,000	N
JA0326C	N	20	20	1,500	700	<100	500	N	>2,000	N
JA0327C	N	10	20	<200	700	2,000	500	N	>2,000	N
JA0328C	N	<10	50	2,000	300	500	1,000	N	2,000	N
JA0329C	N	10	70	N	300	N	1,500	N	>2,000	N
JA0330C	N	10	20	N	500	N	500	N	>2,000	N
JA0331C	N	10	20	2,000	200	N	500	N	2,000	N
JA0332C	N	20	50	N	200	150	500	N	>2,000	N
JA0333C	N	10	<20	<200	100	N	1,000	N	>2,000	N
JA0334C	N	<10	70	1,000	200	N	500	N	>2,000	N
JA0335C	N	<10	20	N	200	<100	500	N	>2,000	N
JA0336C	N	<10	<20	<200	150	N	200	N	>2,000	N
JA0337C	N	10	N	2,000	200	N	200	500	>2,000	N
JA0338C	N	50	N	N	500	N	700	N	>2,000	N
JA0339C	N	<10	<20	2,000	100	N	500	N	>2,000	N
JA0340C	N	<10	N	200	100	500	200	N	>2,000	500
JA0341C	N	10	<20	N	200	N	500	N	>2,000	N
JA0342C	N	10	N	3,000	200	<100	700	N	>2,000	500
JA0343C	N	<10	N	700	100	N	200	N	>2,000	N
JA0344C	N	20	<20	700	100	N	500	<500	>2,000	N
JA0345C	N	15	<20	2,000	100	N	200	N	>2,000	N
JA0346C	N	10	<20	1,000	100	N	300	N	>2,000	N
JA0347C	N	20	<20	200	100	200	200	N	>2,000	N
JA0348C	N	30	20	3,000	100	N	500	N	>2,000	N
JA0349C	N	15	N	5,000	100	N	200	5,000	>2,000	N
JA0351C	N	<10	N	N	30	N	100	2,000	>2,000	N
JA0352C	N	<10	N	>10,000	50	700	1,000	N	>2,000	N
JA0353C	N	N	N	>10,000	<20	N	100	1,000	>2,000	N
JA0354C	N	<10	N	10,000	50	N	100	3,000	>2,000	N
JA0355C	N	10	N	>10,000	<20	N	100	3,000	>2,000	N
JA0357C	N	10	N	10,000	30	<100	200	2,000	>2,000	N
JA0358C	N	<10	N	10,000	20	N	100	N	>2,000	N
JA0359C	N	10	N	3,000	50	500	150	2,000	>2,000	N
JA0360C	N	N	N	10,000	<20	100	150	N	>2,000	N
JA0361C	N	N	N	2,000	<20	N	150	500	>2,000	N
JA0364C	N	30	N	500	200	N	100	N	>2,000	N
JA0365C	N	<10	N	700	20	N	100	N	>2,000	N
JA0366C	N	20	N	N	100	<100	500	N	>2,000	200
JA0367C	N	15	N	N	50	<100	1,000	N	>2,000	<200
JA0368C	N	10	N	N	50	100	1,000	N	>2,000	200
JA0369C	N	20	N	3,000	100	N	300	500	>2,000	N

TABLE 4.--Spectrographic analyses of heavy-mineral concentrates from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
JA0371C	58 9 12	135 33 38	.30	.20	2.0	1.00	300	N	N	N	20	>10,000
JA0372C	58 9 14	135 33 43	.30	1.00	2.0	1.00	200	N	N	N	<20	>10,000
JA0373C	58 9 10	135 32 5	.70	.20	1.5	1.00	150	N	N	N	200	>10,000
JA0374C	58 13 25	135 39 48	.20	.70	1.5	2.00	300	N	N	N	50	>10,000
JA0375C	58 13 22	135 39 58	.30	1.50	1.5	2.00	150	N	N	N	20	>10,000
JA0376C	58 15 11	135 45 2	.50	1.00	1.5	.70	150	N	N	N	500	>10,000
JA0377C	58 43 51	135 13 51	.30	.70	2.0	.70	200	N	N	N	2,000	5,000
JA0379C	58 44 57	135 18 11	.10	.50	2.0	.50	200	N	N	N	1,500	1,000
JA0380C	58 44 13	135 18 22	.50	5.00	2.0	2.00	150	200.0	N	700	300	1,000
JA0381C	58 33 0	135 10 41	.15	.50	1.5	1.00	100	N	N	N	200	2,000
JA0382C	58 32 39	135 10 40	.20	.50	1.0	.70	100	N	N	N	300	500
JA0385C	58 38 11	135 11 9	.70	1.00	2.0	2.00	200	N	N	N	50	>10,000
JA0386C	58 40 12	135 11 19	.10	.70	1.5	.70	150	N	N	N	300	>10,000
JA0387C	58 39 57	134 51 31	.20	3.00	1.5	2.00	200	N	N	N	70	10,000
JA0388C	58 40 9	134 51 11	.10	1.00	1.0	.70	150	N	N	N	50	2,000
JA0389C	58 38 17	134 54 30	.15	.05	1.0	.70	100	N	N	N	50	1,000
JA0390C	58 38 19	134 54 25	.10	5.00	2.0	1.50	150	N	N	N	50	3,000
JA0391C	58 19 2	134 10 25	.15	1.50	1.5	>2.00	200	30.0	500	<20	100	5,000
JA0392C	58 19 4	134 10 24	.20	2.00	7.0	2.00	200	N	<500	N	20	5,000
JA0393C	58 19 3	134 10 12	.15	3.00	7.0	2.00	200	N	<500	N	20	5,000
JA0394C	58 19 11	134 12 55	.20	1.00	3.0	>2.00	300	N	700	N	100	5,000
JA0395C	58 19 14	134 12 56	.10	1.50	2.0	>2.00	150	N	500	N	70	3,000
JA0396C	58 20 20	134 14 19	.20	5.00	5.0	>2.00	200	50.0	<500	50	50	5,000
JA0397C	58 20 22	134 14 15	.10	1.00	1.5	>2.00	200	200.0	500	300	50	5,000
JA0398C	58 21 29	134 16 52	<.10	.10	1.5	>2.00	150	N	500	N	70	7,000
JA0399C	58 18 3	134 13 40	.30	.70	5.0	>2.00	200	N	500	N	20	3,000
JA0400C	58 43 30	135 14 21	.50	.10	.5	.70	150	N	N	N	20	>10,000
JA0501C	58 43 47	134 51 55	.30	2.00	7.0	>2.00	500	N	<500	N	500	10,000
JA0502C	58 43 3	134 54 31	.20	1.50	7.0	>2.00	200	N	N	N	100	10,000
JA0503C	58 43 0	134 54 36	.30	2.00	7.0	>2.00	200	N	N	N	50	10,000
JA0504C	58 44 17	134 55 50	.50	10.00	10.0	>2.00	200	N	N	N	200	5,000
JA0505C	58 44 52	134 55 56	1.50	2.00	7.0	>2.00	300	150.0	N	700	150	>10,000
JA0506C	58 45 11	134 55 42	.50	3.00	7.0	>2.00	200	1.0	N	N	50	>10,000
JA0508C	58 49 58	134 53 18	.20	.20	7.0	>2.00	300	N	N	N	20	200
JA0509C	58 48 13	134 51 35	.20	.10	7.0	>2.00	300	N	N	N	20	2,000
JA0510C	58 48 18	134 49 9	.15	.20	7.0	>2.00	500	N	N	N	20	>10,000
JA0511C	58 47 40	134 49 10	.20	.20	7.0	>2.00	500	N	N	N	20	50
JA0512C	58 47 58	134 47 44	.30	1.50	10.0	>2.00	500	N	N	N	20	10,000
JA0513C	58 46 7	134 46 15	.30	.50	10.0	>2.00	500	N	N	N	20	10,000
JA0514C	58 47 14	134 46 1	.30	15.00	10.0	2.00	300	N	N	N	30	500
JA0515C	58 45 45	134 43 0	.30	.50	7.0	>2.00	300	N	N	N	50	3,000
JA0516C	58 43 37	134 45 14	.30	2.00	7.0	>2.00	500	N	N	N	50	5,000
JA0517C	58 46 43	134 38 49	.20	3.00	7.0	>2.00	300	N	N	N	20	1,000
JA0518C	58 50 12	134 49 52	.50	.20	7.0	>2.00	500	N	N	N	<20	200
JA0519C	58 50 37	134 49 11	.30	.10	3.0	>2.00	500	N	N	N	<20	200

TABLE 4.--Spectrographic analyses of heavy-mineral concentrates from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
JA0371C	N	N	100	N	<20	<10	300	20	<50	<10	<20
JA0372C	N	N	100	N	<20	100	500	N	N	N	20
JA0373C	N	N	50	<10	20	10	500	N	N	N	70
JA0374C	N	N	N	N	50	<10	500	N	N	N	<20
JA0375C	N	N	50	N	20	10	200	N	N	N	20
JA0376C	N	N	N	50	<20	N	100	10	N	10	N
JA0377C	N	N	N	N	N	<10	500	N	N	N	150
JA0379C	N	N	N	N	N	N	500	30	N	10	30
JA0380C	N	N	N	15	100	10	150	N	N	N	<20
JA0381C	N	N	N	N	N	N	100	N	N	N	N
JA0382C	N	N	N	N	<20	<10	100	N	N	N	<20
JA0385C	N	N	<50	10	70	10	150	N	N	20	1,000
JA0386C	N	N	100	50	N	N	100	N	N	<10	N
JA0387C	N	N	N	10	50	<10	150	N	N	N	50
JA0388C	N	N	N	N	<20	<10	100	N	N	N	30
JA0389C	N	<20	N	N	N	N	50	N	N	N	20
JA0390C	N	N	N	N	100	N	150	N	N	N	<20
JA0391C	N	N	N	10	200	<10	150	N	<50	N	100
JA0392C	N	N	N	N	200	<10	200	50	N	N	20
JA0393C	N	N	N	N	70	N	200	N	N	<10	<20
JA0394C	N	N	N	20	500	10	150	N	200	N	70
JA0395C	N	N	N	20	200	<10	200	N	<50	N	50
JA0396C	N	N	N	20	300	<10	200	N	N	N	30
JA0397C	N	50	N	15	100	N	200	N	50	N	50
JA0398C	N	N	N	20	100	<10	200	10	<50	N	50
JA0399C	N	N	N	50	700	<10	50	N	50	N	70
JA0400C	N	N	N	10	30	10	50	N	N	N	<20
JA0501C	<2	<20	N	50	100	<10	100	N	100	N	50
JA0502C	<2	N	N	N	150	<10	150	N	100	N	N
JA0503C	<2	N	N	N	150	N	150	N	70	N	N
JA0504C	<2	N	N	<10	100	<10	N	N	50	10	N
JA0505C	<2	N	<50	30	70	10	70	<10	70	N	20
JA0506C	<2	N	N	N	100	<10	100	N	50	N	70
JA0508C	N	N	N	<10	20	N	200	10	200	N	<20
JA0509C	N	N	N	<10	20	N	150	<10	150	N	N
JA0510C	N	N	N	<10	150	N	200	<10	100	N	N
JA0511C	N	N	N	10	<20	N	300	15	200	<10	N
JA0512C	<2	N	N	N	50	N	200	20	50	N	N
JA0513C	<2	N	N	<10	100	<10	300	<10	70	N	50
JA0514C	N	N	N	N	30	N	100	N	<50	N	N
JA0515C	N	N	N	<10	100	10	500	N	<50	N	N
JA0516C	<2	N	N	N	100	<10	100	N	50	N	N
JA0517C	<2	N	N	<10	70	<10	100	<10	<50	N	<20
JA0518C	N	N	N	N	<20	N	100	N	<50	N	N
JA0519C	<2	N	N	<10	N	N	200	N	50	N	<20

TABLE 4.--Spectrographic analyses of heavy-mineral concentrates from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
JA0371C	N	<10	N	1,500	50	<100	300	5,000	>2,000	N
JA0372C	N	10	N	10,000	30	N	500	5,000	>2,000	N
JA0373C	N	<10	N	10,000	50	500	200	2,000	>2,000	N
JA0374C	N	20	N	2,000	70	N	300	N	>2,000	N
JA0375C	N	10	N	10,000	50	N	200	1,000	>2,000	N
JA0376C	N	30	N	3,000	50	150	500	700	>2,000	N
JA0377C	N	20	N	N	20	N	500	N	>2,000	N
JA0379C	N	<10	N	N	20	150	200	N	>2,000	<200
JA0380C	N	10	N	N	70	<100	150	N	>2,000	N
JA0381C	N	<10	N	N	20	500	100	N	>2,000	N
JA0382C	N	<10	N	N	50	N	100	N	>2,000	N
JA0385C	N	20	N	2,000	50	300	500	1,500	>2,000	N
JA0386C	N	20	N	3,000	30	300	300	2,000	>2,000	N
JA0387C	N	15	N	N	70	N	300	N	>2,000	N
JA0388C	N	50	N	N	20	N	500	N	>2,000	N
JA0389C	N	30	N	N	20	<100	200	N	>2,000	N
JA0390C	N	10	N	N	50	N	500	N	>2,000	N
JA0391C	N	20	50	N	200	100	500	N	>2,000	N
JA0392C	N	10	30	N	150	100	500	N	>2,000	N
JA0393C	N	20	N	N	70	<100	700	N	>2,000	N
JA0394C	N	20	50	N	300	100	500	N	2,000	N
JA0395C	N	20	50	N	200	<100	500	N	>2,000	N
JA0396C	N	20	50	N	500	100	500	N	>2,000	N
JA0397C	N	30	N	N	100	N	500	N	>2,000	N
JA0398C	N	20	50	N	150	N	300	N	>2,000	N
JA0399C	N	15	30	N	200	<100	200	N	150	N
JA0400C	N	<10	N	>10,000	30	N	50	N	200	N
JA0501C	N	10	20	200	300	N	200	N	>2,000	N
JA0502C	N	10	30	300	300	100	200	N	>2,000	N
JA0503C	N	15	30	200	200	100	300	N	>2,000	N
JA0504C	N	10	<20	<200	150	N	150	N	>2,000	N
JA0505C	N	10	<20	300	200	<100	150	1,000	>2,000	N
JA0506C	N	10	<20	1,000	100	N	150	<500	>2,000	N
JA0508C	N	10	50	<200	200	N	700	N	>2,000	N
JA0509C	N	10	30	<200	100	N	300	N	>2,000	N
JA0510C	N	15	30	200	500	100	500	N	>2,000	N
JA0511C	N	10	50	N	200	N	700	N	>2,000	N
JA0512C	N	15	<20	300	150	N	300	N	>2,000	N
JA0513C	N	15	30	300	200	N	300	N	>2,000	N
JA0514C	N	<10	N	200	100	N	200	N	>2,000	N
JA0515C	N	30	20	300	200	150	500	N	>2,000	N
JA0516C	N	15	20	200	300	N	300	N	>2,000	N
JA0517C	N	10	<20	200	150	<100	200	N	>2,000	700
JA0518C	N	30	30	200	100	N	500	N	>2,000	N
JA0519C	N	50	50	<200	150	N	500	N	>2,000	300

TABLE 4.--Spectrographic analyses of heavy-mineral concentrates from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	P-ppm s	Ba-ppm s
JA0520C	58 51 18	134 47 35	.20	.10	5.0	>2.00	500	N	N	N	150	300
JA0521C	58 51 33	134 46 1	.30	.30	5.0	>2.00	500	N	N	N	20	300
JA0522C	58 51 41	134 45 13	.50	.07	7.0	>2.00	1,000	N	N	N	<20	150
JA0523C	58 51 41	134 43 30	.30	.70	3.0	2.00	200	N	N	N	20	700
JA0524C	58 51 7	134 40 29	.50	.70	5.0	>2.00	500	N	N	N	<20	700
JA0525C	58 50 33	134 41 56	.50	.10	7.0	>2.00	500	N	N	N	<20	70
JA0526C	58 51 9	134 45 0	.20	2.00	5.0	>2.00	500	N	N	N	20	100
JA0527C	58 51 9	134 44 25	.20	3.00	5.0	>2.00	500	N	N	N	<20	70
JA0528C	58 50 38	134 47 18	.30	.05	7.0	>2.00	500	N	N	N	<20	50
JA0530C	58 50 45	134 51 23	.30	.20	7.0	>2.00	500	N	N	N	20	500
JA0531C	58 52 20	134 54 32	.20	3.00	5.0	2.00	300	N	N	N	30	>10,000
JA0532C	58 54 38	134 54 10	.30	.10	5.0	>2.00	1,000	N	N	N	<20	3,000
JA0533C	58 55 36	134 51 0	.70	5.00	5.0	2.00	500	N	N	N	70	>10,000
JA0534C	58 55 30	134 50 19	.30	1.00	5.0	>2.00	500	N	N	N	<20	7,000
JA0535C	58 55 36	134 48 22	.50	3.00	5.0	>2.00	500	N	N	N	100	>10,000
JA0536C	58 55 34	134 47 10	.50	1.50	5.0	>2.00	1,000	N	N	N	50	3,000
JA0537C	58 55 58	134 45 5	.70	5.00	10.0	2.00	300	N	N	N	20	500
JA0538C	58 56 23	134 48 14	.70	2.00	7.0	>2.00	1,000	N	<500	N	100	1,500
JA0539C	58 56 28	134 51 28	.30	.50	2.0	>2.00	1,000	10.0	<500	N	70	2,000
JA0540C	58 56 29	134 52 59	.20	1.00	5.0	>2.00	500	N	N	N	70	10,000
JA0541C	58 57 12	134 57 0	.30	.10	7.0	2.00	500	N	N	N	<20	1,000
JA0542C	58 57 30	134 55 27	.20	1.50	7.0	>2.00	500	N	N	N	20	700
JA0543C	58 57 14	134 57 11	.30	.10	5.0	>2.00	700	N	N	N	<20	700
JA0544C	58 57 37	134 55 38	.30	3.00	7.0	>2.00	200	N	N	N	20	10,000
JA0545C	58 58 0	134 57 46	.20	.30	5.0	>2.00	500	N	N	N	<20	200
JA0546C	58 58 30	134 56 51	.30	1.50	10.0	>2.00	500	N	N	N	<20	5,000
JA0547C	58 58 55	134 58 4	.30	.07	7.0	>2.00	700	N	N	N	<20	700
JA0548C	58 59 3	134 56 55	.20	2.00	3.0	2.00	70	N	N	N	20	1,000
JA0549C	58 55 36	134 56 23	.20	.05	7.0	>2.00	700	N	N	N	<20	<50
JA0550C	58 59 29	134 58 9	.30	.30	7.0	>2.00	500	N	N	N	20	7,000
JA0551C	59 0 25	134 52 26	1.50	5.00	5.0	2.00	500	N	N	N	150	300
JA0552C	58 55 25	134 56 26	.20	.07	5.0	>2.00	500	N	N	N	<20	<50
JA0553C	59 0 14	134 52 55	<.10	.30	3.0	>2.00	300	N	N	N	20	10,000
JA0554C	58 54 0	134 56 11	.30	.50	7.0	>2.00	500	N	N	N	<20	50
JA0555C	59 1 42	134 56 3	1.00	15.00	10.0	1.50	500	N	N	N	100	2,000
JA0556C	58 10 50	135 59 16	.50	.50	5.0	2.00	500	N	N	N	<20	70
JA0557C	58 10 6	135 58 9	.70	.70	5.0	>2.00	700	N	N	N	20	<50
JA0558C	58 8 55	135 55 3	1.00	.50	5.0	2.00	500	N	N	N	<20	<50
JA0559C	58 8 50	135 54 50	1.00	2.00	5.0	2.00	500	N	N	N	50	50
JA0560C	58 7 23	135 51 51	20.00	.70	3.0	2.00	200	N	N	N	3,000	5,000
JA0561C	58 8 38	135 53 11	10.00	.20	5.0	1.50	200	N	2,000	N	2,000	10,000
JA0562C	58 6 27	135 56 20	.70	.50	7.0	>2.00	500	N	N	N	20	<50
JA0563C	58 5 20	135 51 47	3.00	.50	7.0	>2.00	500	N	N	N	<20	<50
JA0564C	58 11 22	135 58 12	30.00	.50	3.0	2.00	200	N	500	N	>5,000	10,000
JA0565C	58 5 8	135 59 4	3.00	5.00	10.0	.70	500	N	N	N	50	1,500

TABLE 4.--Spectrographic analyses of heavy-mineral concentrates from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
JA0520C	<2	N	N	<10	N	<10	200	N	100	N	50
JA0521C	<2	N	N	<10	<20	<10	300	N	100	N	30
JA0522C	N	N	N	10	<20	<10	700	<10	200	<10	70
JA0523C	<2	N	N	N	<20	N	150	10	N	N	<20
JA0524C	<2	N	N	<10	<20	<10	300	<10	N	N	N
JA0525C	<2	N	N	N	<20	N	500	N	50	N	N
JA0526C	<2	N	N	N	20	<10	200	<10	<50	N	<20
JA0527C	<2	N	N	<10	20	N	300	<10	100	N	<20
JA0528C	N	N	N	<10	<20	N	300	N	150	N	N
JA0530C	N	N	N	10	<20	N	500	15	200	N	N
JA0531C	<2	N	N	<10	50	<10	150	N	<50	N	N
JA0532C	N	N	N	10	<20	<10	200	10	300	N	50
JA0533C	<2	N	N	10	70	20	100	N	50	<10	<20
JA0534C	N	N	N	N	<20	N	200	N	50	N	<20
JA0535C	<2	N	N	10	70	<10	200	N	100	N	N
JA0536C	N	N	N	N	30	<10	300	<10	200	N	20
JA0537C	<2	N	N	10	150	10	100	N	N	N	50
JA0538C	N	N	N	20	50	<10	>2,000	N	100	N	150
JA0539C	N	20	N	50	500	20	200	N	500	N	200
JA0540C	<2	N	N	<10	50	N	200	N	50	N	N
JA0541C	<2	N	N	N	N	N	150	N	N	N	N
JA0542C	<2	N	N	<10	30	<10	200	N	50	N	20
JA0543C	N	N	N	10	20	N	300	15	150	<10	N
JA0544C	<2	N	N	<10	200	N	200	<10	100	N	N
JA0545C	N	N	N	<10	20	N	300	<10	150	N	N
JA0546C	<2	N	N	<10	150	<10	200	N	70	N	N
JA0547C	N	N	N	15	<20	N	500	10	200	N	N
JA0548C	<2	N	N	<10	20	<10	50	N	<50	N	50
JA0549C	N	N	N	10	N	N	500	15	200	N	N
JA0550C	N	N	N	10	<20	N	500	10	150	N	<20
JA0551C	N	N	N	50	50	50	200	15	50	50	100
JA0552C	N	N	N	N	<20	N	700	30	150	N	N
JA0553C	N	N	N	10	500	10	100	N	200	N	N
JA0554C	N	N	N	<10	30	N	500	20	150	N	N
JA0555C	<2	N	N	<10	150	<10	100	<10	50	50	N
JA0556C	N	N	N	<10	<20	N	500	N	50	N	N
JA0557C	N	N	N	20	20	N	>2,000	<10	50	N	N
JA0558C	N	N	N	<10	<20	<10	300	100	50	10	N
JA0559C	N	N	N	<10	20	15	200	<10	<50	<10	N
JA0560C	<2	N	N	500	100	150	150	N	50	200	50
JA0561C	N	N	N	200	<20	100	200	<10	N	150	50
JA0562C	N	N	N	30	20	<10	500	<10	100	<10	N
JA0563C	N	N	N	30	<20	10	500	<10	<50	N	N
JA0564C	<2	N	N	200	20	200	50	N	N	150	150
JA0565C	<2	N	N	70	100	15	N	<10	N	50	N

TABLE 4.--Spectrographic analyses of heavy-mineral concentrates from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
JA0520C	N	30	70	<200	70	200	700	N	>2,000	1,000
JA0521C	N	50	100	<200	100	N	1,000	N	>2,000	500
JA0522C	N	20	150	N	100	<100	1,500	N	>2,000	2,000
JA0523C	N	20	<20	300	70	300	500	N	>2,000	300
JA0524C	N	30	<20	300	100	100	500	N	>2,000	200
JA0525C	N	50	20	200	150	N	700	N	>2,000	N
JA0526C	N	50	20	N	100	100	1,000	N	>2,000	500
JA0527C	N	10	50	N	150	<100	500	N	>2,000	200
JA0528C	N	10	50	N	150	<100	1,000	N	>2,000	N
JA0530C	N	10	50	N	200	N	1,000	N	>2,000	N
JA0531C	N	20	<20	500	100	100	300	N	>2,000	200
JA0532C	N	15	150	N	200	N	2,000	N	>2,000	1,000
JA0533C	N	10	<20	500	150	N	200	N	>2,000	<200
JA0534C	N	20	70	<200	200	N	700	N	>2,000	200
JA0535C	N	15	50	300	200	<100	500	N	>2,000	<200
JA0536C	N	20	150	N	200	N	1,500	N	>2,000	1,000
JA0537C	N	20	N	200	150	<100	150	N	>2,000	N
JA0538C	N	30	100	<200	50	200	700	N	>2,000	1,500
JA0539C	N	50	50	N	2,000	200	200	N	2,000	N
JA0540C	N	50	<20	<200	200	N	500	N	>2,000	200
JA0541C	N	50	N	<200	70	N	300	N	>2,000	N
JA0542C	N	50	20	<200	200	N	500	N	>2,000	700
JA0543C	N	15	50	N	200	<100	1,000	N	>2,000	N
JA0544C	N	<10	70	300	200	100	150	N	>2,000	N
JA0545C	N	15	50	N	100	N	700	N	>2,000	N
JA0546C	N	10	70	200	200	N	500	N	>2,000	N
JA0547C	N	15	70	N	150	N	1,500	N	>2,000	N
JA0548C	N	15	<20	200	100	100	200	N	>2,000	1,000
JA0549C	N	15	70	N	100	N	1,500	N	2,000	N
JA0550C	N	20	50	<200	200	N	1,000	N	>2,000	N
JA0551C	N	15	<20	N	200	N	300	N	>2,000	300
JA0552C	N	20	70	N	100	N	1,000	N	>2,000	N
JA0553C	N	70	100	N	1,000	<100	200	N	>2,000	N
JA0554C	N	15	50	N	150	200	700	N	2,000	N
JA0555C	N	15	N	N	500	N	100	N	2,000	N
JA0556C	N	70	<20	N	100	N	700	N	>2,000	N
JA0557C	N	100	20	N	150	N	1,000	N	>2,000	N
JA0558C	N	50	<20	N	100	N	700	N	>2,000	N
JA0559C	N	30	<20	N	150	N	500	N	>2,000	N
JA0560C	N	10	N	200	100	N	200	N	>2,000	<200
JA0561C	N	10	N	300	50	N	500	N	>2,000	200
JA0562C	N	30	20	N	200	N	700	N	>2,000	N
JA0563C	N	30	<20	N	150	N	700	N	>2,000	N
JA0564C	N	20	N	700	100	N	100	<500	>2,000	N
JA0565C	N	10	N	N	100	N	50	N	>2,000	N

TABLE 4.--Spectrographic analyses of heavy-mineral concentrates from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
JA0566C	58 12 31	135 58 20	20.00	2.00	3.0	1.00	500	N	N	N	20	10,000
JA0567C	58 11 8	135 58 19	15.00	1.50	10.0	1.50	700	N	500	N	1,000	700
JA0568C	58 16 8	135 49 54	2.00	.70	3.0	1.50	200	N	N	N	100	>10,000
JA0569C	58 14 17	135 52 50	10.00	2.00	3.0	1.50	500	N	N	N	30	>10,000
JA0570C	58 15 59	135 46 20	1.50	3.00	7.0	2.00	1,000	N	N	N	50	10,000
JA0571C	58 16 18	135 46 39	10.00	.50	5.0	2.00	200	<1.0	1,500	N	50	>10,000
JA0572C	58 9 12	135 41 59	2.00	.15	5.0	2.00	200	N	N	N	1,500	>10,000
JA0573C	58 12 29	135 47 6	2.00	.30	5.0	2.00	300	N	N	N	20	>10,000
JA0575C	58 12 29	135 47 12	3.00	.50	5.0	2.00	300	N	1,500	N	20	10,000
JA0576C	58 0 20	135 55 40	1.00	.50	7.0	1.50	500	N	N	N	300	500
JA0577C	58 0 7	135 47 11	1.50	.70	5.0	2.00	300	N	3,000	N	150	1,000
JA0578C	58 1 12	135 59 15	1.50	3.00	10.0	1.00	700	N	N	N	1,500	2,000
JA0579C	58 4 16	135 53 58	1.00	.50	10.0	>2.00	300	N	7,000	N	200	1,500
JA0580C	58 14 0	135 16 24	2.00	.50	3.0	2.00	100	N	2,000	N	<20	3,000
JA0581C	58 4 18	135 51 1	1.00	3.00	10.0	1.50	500	N	N	N	1,500	10,000
JA0582C	58 16 24	135 20 19	10.00	.50	3.0	2.00	200	<1.0	10,000	N	<20	>10,000
JA0583C	58 14 21	135 14 9	20.00	.70	5.0	>2.00	300	N	500	N	20	>10,000
JA0585C	58 18 40	135 21 43	1.00	1.00	5.0	>2.00	500	N	1,000	N	50	5,000
JA0586C	58 22 50	135 25 21	1.50	1.50	7.0	>2.00	700	N	N	N	200	5,000
JA0587C	58 18 30	135 21 50	1.50	.70	5.0	>2.00	300	N	7,000	N	1,500	>10,000
JA0588C	58 12 53	133 25 25	.50	1.50	5.0	>2.00	500	N	<500	N	50	700
JA0589C	58 12 0	133 25 20	1.50	7.00	7.0	2.00	500	N	<500	N	50	>10,000
JA0590C	58 12 0	133 28 50	.50	5.00	7.0	2.00	700	N	N	N	100	>10,000
JA0591C	58 12 33	133 59 54	.70	1.00	7.0	>2.00	700	10.0	N	N	200	>10,000
JA0592C	58 11 44	133 31 31	.50	5.00	10.0	>2.00	300	N	N	N	50	>10,000
JA0593C	58 12 42	133 32 29	.70	3.00	10.0	2.00	500	N	N	N	20	>10,000
JA0594C	58 10 28	133 35 31	.30	.30	7.0	>2.00	700	N	N	N	50	2,000
JA0595C	58 18 0	133 28 40	.20	.05	1.5	2.00	100	N	N	N	30	300
JA0596C	58 18 6	133 31 40	1.00	.05	5.0	2.00	300	2.0	500	N	20	5,000
JA0597C	58 17 2	133 31 16	1.00	.30	7.0	>2.00	300	N	700	N	30	7,000
JA0598C	58 17 8	133 32 46	.50	.05	7.0	>2.00	1,000	N	N	N	20	300
JA0599C	58 19 19	133 36 18	1.00	.10	7.0	>2.00	500	N	500	N	20	1,500
JA0600C	58 18 7	133 38 40	.30	.05	5.0	2.00	300	N	N	N	20	1,500
JA0601C	58 16 43	133 38 16	.30	.07	5.0	2.00	500	N	N	N	20	10,000
JA0602C	58 14 13	133 41 27	.30	.30	7.0	2.00	300	N	N	N	20	1,000
JA0603C	58 15 33	133 46 26	.10	<.05	5.0	>2.00	500	N	N	N	<20	100
JA0604C	58 14 32	133 46 30	.50	.07	3.0	>2.00	300	N	N	N	20	1,500
JA0605C	58 9 8	133 15 30	.50	.10	2.0	2.00	200	N	N	N	<20	700
JA0606C	58 14 34	133 46 40	.15	<.05	2.0	.70	100	N	N	N	20	1,000
JA0607C	58 11 23	133 17 49	1.00	2.00	7.0	>2.00	500	N	500	N	20	3,000
JA0608C	58 8 49	133 11 59	10.00	.50	2.0	2.00	150	N	1,000	N	<20	700
JA0609C	58 8 37	133 12 4	3.00	.10	2.0	2.00	200	N	1,000	N	<20	200
JA0610C	58 9 41	133 21 21	.30	1.00	7.0	2.00	500	N	N	N	20	<50
JA0611C	58 12 42	133 21 35	1.00	5.00	5.0	>2.00	300	N	<500	N	150	1,500
JA0612C	58 8 10	133 23 40	.70	5.00	10.0	2.00	500	N	N	N	<20	10,000

TABLE 4.--Spectrographic analyses of heavy-mineral concentrates from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
JA0566C	N	N	N	100	20	200	50	<10	N	200	150
JA0567C	<2	N	N	150	100	300	500	N	N	100	50
JA0568C	<2	N	<50	70	50	150	150	<10	<50	70	<20
JA0569C	N	N	<50	100	500	200	500	<10	N	150	50
JA0570C	<2	N	N	50	200	200	300	<10	50	50	<20
JA0571C	N	N	<50	500	20	200	150	N	<50	300	300
JA0572C	2	N	N	150	50	30	700	N	70	100	50
JA0573C	N	N	<50	70	20	15	500	N	N	30	<20
JA0575C	N	N	<50	100	30	150	300	<10	<50	50	<20
JA0576C	N	N	N	50	<20	10	200	N	N	N	<20
JA0577C	<2	300	N	100	20	70	200	10	N	20	50
JA0578C	<2	N	N	10	20	20	70	<10	N	<10	N
JA0579C	<2	N	N	500	30	<10	150	<10	<50	30	70
JA0580C	N	N	<50	150	<20	10	100	N	50	70	N
JA0581C	<2	N	N	20	30	<10	150	<10	<50	N	N
JA0582C	N	N	50	150	20	500	N	N	<50	150	50
JA0583C	N	N	<50	500	50	200	200	<10	100	100	70
JA0585C	<2	N	N	20	70	20	300	<10	50	20	N
JA0586C	N	N	N	10	70	<10	1,500	<10	100	N	N
JA0587C	<2	N	<50	50	70	100	1,000	N	50	20	<20
JA0588C	N	N	N	N	<20	10	500	10	70	N	70
JA0589C	<2	N	N	30	70	200	N	N	N	50	N
JA0590C	<2	N	N	N	70	30	100	N	50	10	N
JA0591C	<2	N	N	10	100	<10	150	N	50	N	50
JA0592C	<2	N	N	N	150	10	N	<10	70	10	N
JA0593C	<2	N	N	15	100	50	100	<10	70	70	N
JA0594C	N	N	N	10	50	<10	200	N	50	N	20
JA0595C	N	N	N	N	N	<10	200	N	N	N	50
JA0596C	N	N	N	50	N	<10	150	N	N	N	70
JA0597C	<2	N	N	70	70	100	200	<10	N	20	200
JA0598C	N	N	N	N	<20	<10	1,000	10	200	N	30
JA0599C	N	N	N	50	<20	100	200	N	<50	20	30
JA0600C	N	N	N	<10	<20	<10	200	<10	<50	N	50
JA0601C	N	N	N	15	N	<10	500	15	50	N	100
JA0602C	N	N	N	<10	<20	<10	500	20	<50	N	30
JA0603C	N	N	N	<10	N	<10	300	N	<50	N	N
JA0604C	N	N	N	20	N	<10	300	<10	70	N	30
JA0505C	N	500	N	<10	<20	<10	100	N	N	N	N
JA0606C	<2	N	N	N	N	<10	N	N	N	N	20
JA0607C	N	N	N	70	30	N	150	10	<50	20	150
JA0608C	N	N	N	200	30	20	<50	20	N	200	50
JA0609C	N	30	N	100	<20	150	150	<10	<50	70	70
JA0610C	2	30	N	<10	100	50	200	<10	N	N	N
JA0611C	N	N	N	<10	200	<10	300	N	50	50	N
JA0512C	2	N	N	N	70	<10	N	N	<50	N	N

TABLE 4.--Spectrographic analyses of heavy-mineral concentrates from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
JA0566C	N	<10	N	300	100	N	100	N	>2,000	N
JA0567C	N	20	N	500	150	N	300	N	>2,000	N
JA0568C	N	15	N	5,000	70	N	150	1,000	>2,000	N
JA0569C	N	30	N	1,500	100	N	100	700	>2,000	N
JA0570C	N	30	<20	1,000	200	N	200	N	>2,000	N
JA0571C	N	N	N	2,000	70	N	300	<500	>2,000	N
JA0572C	N	20	N	5,000	70	N	200	N	>2,000	N
JA0573C	N	20	N	3,000	100	N	500	500	>2,000	N
JA0575C	N	20	N	1,000	100	N	500	<500	>2,000	N
JA0576C	N	20	N	200	70	N	500	N	>2,000	<200
JA0577C	N	30	N	N	100	N	1,000	N	>2,000	200
JA0578C	N	10	<20	200	100	N	100	N	>2,000	N
JA0579C	N	10	N	300	200	N	300	N	>2,000	N
JA0580C	N	10	N	200	70	<100	200	<500	>2,000	200
JA0581C	N	15	N	200	200	N	200	N	>2,000	N
JA0582C	N	N	N	3,000	70	N	300	1,000	>2,000	N
JA0583C	N	10	N	700	200	N	300	1,500	>2,000	N
JA0585C	N	20	<20	500	300	N	500	N	>2,000	N
JA0586C	N	20	20	300	200	<100	500	N	>2,000	N
JA0587C	N	20	N	1,500	150	<100	200	2,000	>2,000	N
JA0588C	N	50	150	N	70	N	1,500	N	>2,000	2,000
JA0589C	N	20	N	<200	500	<100	200	N	>2,000	<200
JA0590C	N	20	<20	200	300	N	500	N	>2,000	<200
JA0591C	N	30	50	200	300	150	700	N	>2,000	700
JA0592C	N	20	N	200	500	N	200	N	>2,000	<200
JA0593C	N	10	N	700	200	500	150	N	>2,000	N
JA0594C	N	30	30	<200	100	100	700	N	>2,000	700
JA0595C	N	70	20	N	20	N	2,000	N	>2,000	5,000
JA0596C	N	30	<20	<200	50	<100	1,000	N	>2,000	5,000
JA0597C	N	50	50	<200	70	<100	1,000	N	>2,000	1,000
JA0598C	N	20	50	N	500	N	2,000	N	>2,000	1,000
JA0599C	N	30	<20	<200	150	150	1,000	N	>2,000	700
JA0600C	N	50	<20	<200	50	100	1,000	N	>2,000	1,500
JA0601C	N	15	30	500	50	300	300	N	>2,000	2,000
JA0602C	N	30	20	700	70	150	500	N	>2,000	300
JA0603C	N	50	20	N	150	N	500	N	>2,000	200
JA0604C	N	10	20	500	70	N	300	N	>2,000	200
JA0605C	N	70	<20	<200	100	200	700	N	>2,000	<200
JA0606C	N	10	N	700	<20	N	150	N	>2,000	300
JA0607C	N	20	20	<200	70	150	700	N	>2,000	1,500
JA0608C	N	30	N	<200	70	200	500	N	>2,000	<200
JA0609C	N	30	<20	N	70	<100	1,000	N	>2,000	<200
JA0610C	N	50	<20	<200	100	500	700	N	>2,000	<200
JA0611C	N	20	20	N	150	150	300	N	>2,000	N
JA0612C	N	10	<20	N	500	<100	150	N	>2,000	N

TABLE 4.--Spectrographic analyses of heavy-mineral concentrates from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
JA0613C	58 8 15	133 20 59	1.00	1.00	7.0	2.00	500	N	N	N	<20	1,500
JA0614C	58 7 21	133 25 52	1.00	1.50	5.0	2.00	700	N	N	N	<20	2,000
JA0615C	58 7 37	133 22 46	1.00	1.50	5.0	>2.00	300	N	N	N	<20	2,000
JA0616C	58 5 40	133 27 38	.50	.30	7.0	>2.00	700	N	N	N	50	150
JA0617C	58 5 55	133 25 44	1.00	1.00	5.0	1.50	100	N	N	N	20	1,000
JA0618C	58 1 48	133 59 51	.70	2.00	7.0	>2.00	500	N	N	N	<20	200
JA0619C	58 3 44	133 31 51	.20	.10	5.0	>2.00	500	N	N	N	20	500
JA0620C	58 1 46	133 29 59	.50	2.00	5.0	>2.00	500	N	N	N	50	100
JA0621C	58 2 59	133 34 1	.50	.15	7.0	>2.00	1,000	N	N	N	<20	50
JA0622C	58 1 30	133 34 20	.50	3.00	7.0	>2.00	500	N	N	N	20	150
JA0623C	58 0 59	133 35 13	.20	.15	5.0	>2.00	200	N	N	N	20	700
JA0624C	58 1 44	133 37 38	.70	.50	5.0	>2.00	500	N	N	N	<20	700
JA0625C	58 0 42	133 36 20	1.00	7.00	7.0	>2.00	500	N	N	N	50	5,000
JA0626C	58 0 28	133 39 40	.20	.50	5.0	>2.00	1,000	N	N	N	20	300
JA0627C	58 1 22	133 44 28	1.50	.50	5.0	>2.00	500	N	2,000	N	30	10,000
JA0628C	58 0 50	133 43 42	.50	.50	10.0	>2.00	500	N	N	N	<20	10,000
JA0630C	58 1 0	133 43 59	.30	5.00	7.0	>2.00	500	N	N	N	20	1,500
JA0631C	58 4 22	133 47 18	.50	.20	10.0	>2.00	500	N	500	N	50	5,000
JA0632C	58 4 17	133 45 10	1.50	5.00	7.0	>2.00	1,000	N	1,000	N	30	10,000
JA0633C	58 59 5	135 2 15	.20	.05	7.0	>2.00	700	N	N	N	20	<50
JA0634C	58 59 20	135 2 50	1.00	.70	5.0	>2.00	500	N	3,000	N	30	300
JA0635C	58 56 59	135 2 25	1.00	1.50	7.0	>2.00	1,000	N	<500	N	50	100
JA0636C	58 58 22	135 2 6	.20	1.00	5.0	>2.00	500	N	N	N	20	1,000
JA0637C	58 55 27	135 0 30	.50	5.00	10.0	>2.00	1,000	N	N	N	20	1,500
JA0638C	58 55 30	135 1 50	.20	.30	7.0	>2.00	500	N	N	N	20	150
JA0639C	58 53 28	135 0 16	.50	.30	7.0	>2.00	500	N	N	N	20	500
JA0640C	58 54 28	135 0 50	.30	.10	5.0	>2.00	700	N	N	N	20	200
JA0641C	58 51 32	135 8 39	2.00	3.00	3.0	>2.00	500	10.0	2,000	50	100	>10,000
JA0642C	58 51 13	135 0 4	1.00	.50	7.0	2.00	700	N	N	N	<20	700
JA0643C	59 1 51	134 56 20	.30	.15	5.0	>2.00	300	N	N	N	<20	700
JA0644C	58 52 9	135 8 20	3.00	1.50	5.0	>2.00	500	100.0	700	N	20	>10,000
JA0645C	59 6 3	134 55 25	.50	.30	3.0	>2.00	150	N	N	N	20	1,000
JA0646C	59 3 57	134 56 19	.20	.70	5.0	>2.00	300	N	N	N	20	700
JA0647C	59 6 17	134 56 10	.50	.30	5.0	>2.00	500	N	N	N	20	150
JA0648C	59 0 28	134 59 45	.20	.10	5.0	>2.00	500	N	N	N	20	500
JA0649C	58 2 28	133 22 51	.20	2.00	7.0	>2.00	500	N	N	N	30	10,000
JA0651C	58 0 32	133 23 35	.70	3.00	7.0	>2.00	500	N	N	N	100	10,000
JA0652C	58 3 49	133 18 23	.30	5.00	7.0	2.00	300	N	N	N	20	10,000
JA0653C	58 2 34	133 26 29	1.00	.70	7.0	>2.00	150	3.0	1,500	N	<20	2,000
JA0654C	58 4 22	133 19 16	.30	.50	5.0	2.00	200	N	N	N	20	3,000
JA0655C	58 2 35	133 26 19	.20	.30	10.0	>2.00	150	N	N	N	20	50
JA0656C	58 6 3	133 11 18	1.00	.50	5.0	2.00	150	N	1,000	N	20	1,000
JA0657C	58 5 57	133 11 9	.30	.07	7.0	1.50	150	N	N	N	20	700
JA0658C	58 5 46	133 9 45	.20	.05	3.0	1.00	100	N	N	N	<20	500
JA0659C	58 5 42	133 9 58	.20	.05	7.0	>2.00	200	N	N	N	<20	300

TABLE 4.--Spectrographic analyses of heavy-mineral concentrates from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
JA0613C	N	N	N	30	<20	<10	150	N	N	N	<20
JA0614C	N	N	N	<10	<20	<10	150	N	<50	N	30
JA0615C	N	N	N	20	20	<10	200	10	50	50	30
JA0616C	N	<20	N	N	<20	N	1,000	20	200	20	N
JA0617C	N	N	N	10	<20	10	N	<10	N	20	20
JA0618C	N	N	N	N	150	N	200	20	70	N	N
JA0619C	N	N	N	N	<20	10	300	10	50	N	N
JA0620C	N	N	N	N	100	N	200	10	150	N	N
JA0621C	N	N	N	N	<20	N	500	10	200	N	<20
JA0622C	N	N	N	N	100	N	300	100	100	N	20
JA0623C	N	N	N	N	<20	N	200	10	50	N	50
JA0624C	N	N	N	20	<20	N	150	70	70	N	<20
JA0625C	N	N	N	10	70	<10	150	N	50	30	N
JA0626C	N	20	N	10	<20	N	700	30	300	N	<20
JA0627C	N	N	N	70	70	<10	200	70	<50	20	70
JA0628C	N	N	N	<10	150	20	300	100	70	20	<20
JA0630C	N	N	N	N	70	N	300	30	70	20	N
JA0631C	N	N	N	20	50	<10	200	10	100	N	N
JA0632C	N	N	N	10	100	10	200	10	100	50	<20
JA0633C	N	N	N	N	<20	N	500	20	200	N	N
JA0634C	<2	N	N	70	200	150	500	<10	70	30	20
JA0635C	<2	N	N	50	150	<10	300	<10	100	20	N
JA0636C	N	N	N	N	50	N	150	<10	<50	N	20
JA0637C	N	N	N	<10	50	<10	1,000	10	<50	10	N
JA0638C	N	N	N	<10	50	N	700	10	70	N	N
JA0639C	N	N	N	10	50	200	150	20	100	N	<20
JA0640C	N	N	N	<10	20	N	500	15	100	N	<20
JA0641C	<2	N	N	50	50	100	50	<10	<50	100	50
JA0642C	N	N	N	<10	<20	10	300	200	N	N	500
JA0643C	N	N	N	<10	50	<10	300	15	<50	20	20
JA0644C	10	<20	N	70	100	200	100	500	50	30	7,000
JA0645C	<2	50	N	50	N	<10	70	<10	70	1,000	70
JA0646C	<2	N	N	<10	<20	N	150	<10	50	N	30
JA0647C	N	N	N	<10	20	10	200	10	50	10	50
JA0648C	N	N	N	<10	50	10	200	<10	50	20	<20
JA0649C	<2	N	N	<10	100	10	150	<10	50	N	N
JA0651C	<2	N	N	<10	150	<10	100	N	100	20	20
JA0652C	<2	N	N	N	100	<10	100	N	50	20	N
JA0653C	<2	<20	N	50	150	<10	100	N	70	20	700
JA0654C	<2	N	N	N	20	N	150	N	N	N	<20
JA0655C	N	N	N	<10	500	N	100	N	150	N	N
JA0656C	<2	<20	N	20	<20	<10	70	<10	N	20	50
JA0657C	<2	50	N	N	N	N	70	N	N	N	N
JA0658C	<2	N	N	N	N	N	70	N	N	50	20
JA0659C	<2	<20	N	N	20	<10	200	N	<50	N	N

TABLE 4.--Spectrographic analyses of heavy-mineral concentrates from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
JA0613C	N	70	<20	200	100	200	1,000	N	>2,000	200
JA0614C	N	50	20	N	100	150	700	N	>2,000	1,000
JA0615C	N	50	20	300	150	N	500	N	>2,000	<200
JA0616C	N	20	50	N	300	N	1,500	N	>2,000	N
JA0617C	N	10	N	700	50	N	100	N	>2,000	N
JA0618C	N	50	70	N	200	500	1,000	N	>2,000	N
JA0619C	N	30	30	<200	200	N	700	N	>2,000	N
JA0620C	N	20	50	N	200	500	500	N	>2,000	N
JA0621C	N	20	150	N	300	<100	2,000	N	>2,000	N
JA0622C	N	20	50	<200	150	700	500	N	>2,000	N
JA0623C	N	15	N	500	100	150	200	N	>2,000	200
JA0624C	N	50	70	N	150	N	700	N	>2,000	N
JA0625C	N	20	20	<200	150	N	300	N	>2,000	<200
JA0626C	N	15	100	N	100	<100	1,500	N	1,500	N
JA0627C	N	20	20	500	200	1,000	500	N	>2,000	<200
JA0628C	N	20	20	200	200	200	500	N	>2,000	N
JA0630C	N	15	20	<200	150	500	200	N	>2,000	200
JA0631C	N	10	30	<200	200	<100	700	N	>2,000	N
JA0632C	N	30	30	<200	200	500	300	N	>2,000	N
JA0633C	N	20	100	N	150	N	1,500	N	2,000	N
JA0634C	N	20	30	<200	200	<100	300	N	>2,000	N
JA0635C	N	20	20	300	150	<100	200	N	>2,000	N
JA0636C	N	30	30	<200	150	200	500	N	>2,000	200
JA0637C	N	30	20	<200	100	<100	1,000	N	>2,000	<200
JA0638C	N	20	50	<200	200	N	700	N	>2,000	N
JA0639C	N	15	50	<200	200	<100	700	N	>2,000	<200
JA0640C	N	15	50	N	200	N	700	N	>2,000	<200
JA0641C	N	10	<20	1,000	100	N	200	2,000	>2,000	N
JA0642C	N	10	N	500	200	N	300	N	>2,000	N
JA0643C	N	50	20	N	70	N	700	N	>2,000	<200
JA0644C	<200	20	>2,000	700	200	500	500	2,000	>2,000	N
JA0645C	N	N	20	7,000	30	N	200	N	>2,000	<200
JA0646C	N	10	30	500	70	100	500	N	>2,000	200
JA0647C	N	20	50	N	200	N	700	N	>2,000	300
JA0648C	N	20	50	300	100	N	500	N	>2,000	200
JA0649C	N	15	<20	300	200	N	500	N	>2,000	300
JA0651C	N	10	N	200	300	150	300	N	>2,000	N
JA0652C	N	<10	<20	200	150	N	150	N	>2,000	N
JA0653C	N	10	30	200	200	300	300	N	>2,000	N
JA0654C	N	50	<20	300	50	<100	500	N	>2,000	<200
JA0655C	N	10	70	300	300	N	500	N	1,000	N
JA0656C	N	20	N	200	70	<100	500	N	>2,000	<200
JA0657C	N	20	N	300	50	100	300	N	>2,000	N
JA0658C	N	30	N	<200	20	N	700	N	>2,000	<200
JA0659C	N	20	N	<200	100	N	500	N	>2,000	N

TABLE 4.--Spectrographic analyses of heavy-mineral concentrates from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
JA0660C	58 7 38	133 45 1	.10	.10	15.0	1.00	200	N	N	N	<20	200
JA0661C	58 36 15	134 43 22	.30	1.00	10.0	1.50	300	N	N	N	20	500
JA0662C	58 42 14	134 39 42	.30	.50	10.0	2.00	500	N	N	N	20	700
JA0663C	58 43 37	134 38 50	.10	<.05	7.0	2.00	200	N	N	N	<20	50
JA0664C	58 42 29	134 35 37	.10	.05	15.0	2.00	500	N	N	N	<20	<50
JA0665C	58 47 10	134 28 35	1.50	.50	5.0	2.00	300	5.0	N	N	<20	1,000
JA0666C	58 47 22	134 28 3	.15	.10	3.0	.70	100	N	N	N	<20	700
JA0667C	58 47 20	134 27 51	3.00	.07	3.0	.30	150	50.0	N	N	<20	5,000
JA0668C	58 47 14	134 27 22	1.50	.20	1.5	.70	100	N	N	N	20	2,000
JA0669C	59 14 33	135 57 0	.70	.15	3.0	.30	100	N	700	N	20	7,000
JA0670C	59 14 54	135 58 25	2.00	1.50	7.0	.50	200	N	1,000	N	20	1,500
JA0671C	59 14 2	135 51 38	1.50	2.00	10.0	.70	500	N	N	N	500	7,000
JA0672C	59 14 18	135 55 23	3.00	.50	5.0	.50	200	N	700	N	50	1,000
JA0673C	59 14 35	135 44 26	.20	.05	1.5	.50	70	N	N	N	<20	200
JA0674C	59 14 28	135 47 52	.20	.50	5.0	.50	200	N	<500	N	<20	>10,000
JA0675C	59 14 37	135 40 0	.50	1.00	10.0	.70	500	N	<500	N	<20	1,500
JA0676C	59 14 40	135 42 54	.30	.05	1.0	1.00	50	N	N	N	<20	200
JA0677C	59 10 13	135 42 22	.30	.15	3.0	.50	150	N	N	N	<20	100
JA0678C	59 11 56	135 38 31	.50	<.05	1.0	.70	50	1.5	N	N	50	200
JA0679C	59 12 54	135 32 10	.20	2.00	5.0	1.50	200	N	N	N	20	200
JA0680C	59 11 50	135 38 25	.30	.30	2.0	2.00	200	N	N	N	20	700
JA0681C	59 9 25	135 30 35	.20	<.05	5.0	1.50	150	N	N	N	<20	<50
JA0682C	59 12 28	135 37 48	.30	.07	3.0	.70	70	N	<500	N	<20	100
JA0683C	59 8 56	135 30 53	.20	.10	7.0	1.50	500	N	N	N	<20	70
JA0684C	59 12 11	135 30 39	.30	5.00	20.0	>2.00	700	N	N	N	20	700
JA0685C	59 8 49	135 30 52	10.00	.10	3.0	1.50	200	N	<500	N	<20	2,000
JA0686C	59 8 16	135 27 38	.50	.20	20.0	2.00	200	N	N	N	<20	7,000
JA0687C	59 4 57	135 25 20	5.00	.50	3.0	1.50	200	N	1,500	N	20	7,000
JA0688C	59 7 43	135 27 8	.70	.50	15.0	>2.00	150	N	N	N	70	700
JA0690C	59 7 1	135 26 48	.50	.50	20.0	>2.00	150	N	N	N	70	<50
JA0691C	59 13 53	135 0 26	.50	10.00	20.0	2.00	300	N	N	N	20	2,000
JA0692C	59 3 18	135 25 1	.50	1.50	15.0	>2.00	200	N	N	N	30	5,000
JA0693C	59 11 57	134 58 42	.30	.20	5.0	>2.00	200	N	N	N	<20	500
JA0694C	59 14 28	134 49 1	.70	1.00	10.0	>2.00	300	N	N	N	<20	3,000
JA0696C	59 13 32	134 56 40	.30	7.00	20.0	>2.00	500	N	N	N	<20	1,000
JA0697C	59 12 52	134 50 15	.50	1.00	5.0	1.50	150	15.0	N	N	<20	300
JA0698C	59 13 40	134 58 20	.30	3.00	7.0	2.00	150	N	N	N	20	1,500
JA0700C	59 12 9	135 0 22	.15	.15	5.0	2.00	150	N	N	N	<20	2,000
JA0701C	59 11 40	135 2 39	.50	1.00	10.0	>2.00	700	N	N	N	<20	700
JA0702C	59 12 27	135 1 58	.20	5.00	10.0	>2.00	500	N	N	N	<20	<50
JA0703C	59 14 43	135 4 22	2.00	2.00	10.0	>2.00	1,000	2.0	500	N	20	10,000
JA0704C	59 13 33	135 4 56	2.00	3.00	7.0	>2.00	1,500	N	N	N	<20	7,000
JA0705C	59 14 7	135 12 34	2.00	5.00	10.0	>2.00	2,000	N	1,000	N	20	1,500
JA0706C	59 13 46	135 5 12	2.00	3.00	7.0	>2.00	1,500	N	N	N	<20	50
JA0707C	59 14 2	135 16 57	1.50	1.00	10.0	>2.00	1,000	N	N	N	<20	700

TABLE 4.--Spectrographic analyses of heavy-mineral concentrates from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
JA0660C	N	N	N	N	<20	N	300	N	N	N	N
JA0661C	N	N	N	10	<20	N	100	N	N	N	N
JA0662C	N	N	N	N	150	N	150	<10	50	N	N
JA0663C	N	N	N	N	<20	N	100	N	N	N	N
JA0664C	N	N	N	N	30	<10	200	<10	<50	N	20
JA0665C	N	N	N	70	<20	10	100	N	N	N	100
JA0666C	<2	N	N	N	<20	N	100	N	N	N	30
JA0667C	N	700	200	150	<20	10	150	500	N	10	2,000
JA0668C	<2	N	N	70	<20	<10	N	10	N	N	50
JA0669C	N	N	N	20	<20	<10	50	20	N	N	N
JA0670C	N	N	N	100	20	15	N	N	N	50	<20
JA0671C	N	N	N	50	<20	<10	N	<10	N	N	N
JA0672C	<2	N	N	150	N	50	N	100	N	30	N
JA0673C	<2	150	N	N	N	<10	N	<10	N	N	70
JA0674C	N	N	N	N	N	<10	70	N	N	N	50
JA0675C	<2	N	N	N	<20	15	100	N	N	N	50
JA0676C	N	N	N	N	N	<10	N	N	N	N	N
JA0677C	N	300	N	10	N	<10	N	50	N	N	<20
JA0678C	N	2,000	N	N	N	<10	N	100	N	N	200
JA0679C	N	N	N	N	<20	10	N	N	N	N	2,000
JA0680C	N	N	N	N	20	<10	150	N	N	N	30
JA0681C	N	N	N	N	N	N	N	N	N	N	N
JA0682C	<2	N	N	10	N	N	N	<10	N	N	<20
JA0683C	N	N	100	N	<20	<10	100	20	N	N	20
JA0684C	N	N	N	<10	70	<10	100	N	<50	N	<20
JA0685C	<2	N	N	1,000	20	200	50	<10	N	70	30
JA0686C	N	N	N	20	30	<10	N	N	<50	N	N
JA0687C	<2	N	N	300	20	50	70	20	N	30	150
JA0688C	N	N	N	50	30	<10	N	N	<50	N	N
JA0690C	N	N	N	10	150	<10	N	N	100	N	<20
JA0691C	<2	N	N	N	200	<10	300	N	<50	20	N
JA0692C	N	N	N	15	50	<10	50	20	<50	N	70
JA0693C	N	N	N	<10	20	<10	150	N	<50	N	<20
JA0694C	N	N	N	20	150	15	200	N	50	N	50
JA0696C	N	N	N	<10	200	<10	500	N	<50	N	200
JA0697C	N	100	N	15	50	100	100	N	N	100	70
JA0698C	<2	N	N	N	70	<10	150	N	N	N	50
JA0700C	N	N	N	N	N	70	100	N	N	N	<20
JA0701C	N	N	N	<10	100	<10	500	<10	70	N	N
JA0702C	N	N	N	N	30	N	300	<10	100	N	N
JA0703C	N	N	N	100	150	200	1,000	<10	100	50	50
JA0704C	N	N	N	<10	70	20	>2,000	<10	100	<10	30
JA0705C	N	<20	N	500	300	<10	100	<10	100	100	<20
JA0706C	N	N	N	30	70	15	1,500	<10	50	<10	<20
JA0707C	N	N	N	20	200	20	700	200	50	N	<20

TABLE 4.--Spectrographic analyses of heavy-mineral concentrates from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
JA0660C	N	10	N	500	30	N	500	N	>2,000	<200
JA0661C	N	20	N	300	50	N	200	N	>2,000	N
JA0662C	N	15	30	<200	100	N	300	N	>2,000	N
JA0663C	N	30	<20	200	50	N	300	N	>2,000	N
JA0664C	N	20	<20	200	20	N	1,000	N	>2,000	N
JA0665C	N	30	<20	N	50	N	1,000	N	>2,000	5,000
JA0666C	N	30	N	<200	20	N	700	N	>2,000	500
JA0667C	N	30	N	<200	20	<100	1,000	1,000	>2,000	1,500
JA0668C	N	10	N	500	50	200	200	N	>2,000	200
JA0669C	N	30	N	300	<20	<100	300	N	>2,000	200
JA0670C	<200	<10	N	200	30	N	150	N	>2,000	<200
JA0671C	N	<10	N	700	100	N	100	N	>2,000	N
JA0672C	N	10	N	500	20	N	200	N	>2,000	<200
JA0673C	N	70	N	<200	20	N	1,000	N	>2,000	700
JA0674C	N	30	N	500	20	N	500	N	>2,000	<200
JA0675C	N	10	N	<200	100	N	200	N	>2,000	<200
JA0676C	N	70	N	N	<20	<100	1,500	N	>2,000	500
JA0677C	N	30	N	200	20	1,000	200	N	>2,000	500
JA0678C	N	70	N	N	<20	100	1,500	N	>2,000	300
JA0679C	N	20	N	200	50	N	200	N	>2,000	N
JA0680C	N	30	<20	<200	100	<100	500	N	>2,000	500
JA0681C	N	20	N	200	50	N	300	N	>2,000	N
JA0682C	N	20	N	<200	20	N	500	N	>2,000	<200
JA0683C	N	15	N	700	50	500	300	1,000	>2,000	N
JA0684C	N	15	20	700	200	100	500	N	>2,000	N
JA0685C	N	<10	N	500	100	150	150	N	>2,000	N
JA0686C	N	N	<20	1,000	70	N	150	N	700	N
JA0687C	N	20	N	500	100	N	500	N	>2,000	<200
JA0688C	N	10	<20	700	70	<100	150	N	2,000	N
JA0690C	N	15	30	700	100	N	500	N	500	N
JA0691C	N	20	<20	300	1,000	N	200	N	>2,000	N
JA0692C	N	20	<20	1,000	100	300	500	N	>2,000	<200
JA0693C	N	50	30	300	100	N	700	N	>2,000	<200
JA0694C	N	50	70	500	150	N	1,000	N	>2,000	300
JA0696C	N	15	50	500	150	150	1,000	N	>2,000	<200
JA0697C	N	30	<20	200	20	N	500	N	>2,000	<200
JA0698C	N	20	<20	700	100	N	200	N	>2,000	<200
JA0700C	N	30	<20	300	20	N	700	N	>2,000	N
JA0701C	N	20	100	N	500	500	1,000	N	>2,000	<200
JA0702C	N	15	50	N	100	<100	1,000	N	>2,000	N
JA0703C	N	20	70	N	300	300	1,000	N	>2,000	<200
JA0704C	N	50	50	N	200	100	1,000	N	>2,000	<200
JA0705C	N	20	50	N	300	<100	1,500	N	>2,000	N
JA0706C	N	50	30	N	150	<100	1,000	N	>2,000	200
JA0707C	N	30	70	<200	200	200	1,000	N	>2,000	<200

TABLE 4.--Spectrographic analyses of heavy-mineral concentrates from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
JA0708C	59 15 4	135 11 32	2.00	3.00	7.0	>2.00	1,500	N	N	N	<20	70
JA0709C	59 13 41	135 19 22	2.00	3.00	10.0	>2.00	1,500	N	N	N	<20	<50
JA0710C	59 12 32	135 16 15	2.00	5.00	7.0	>2.00	2,000	N	N	N	200	1,000
JA0711C	59 9 4	135 10 12	1.50	.50	10.0	>2.00	700	1.0	N	N	<20	1,000
JA0712C	59 11 8	135 16 32	1.00	.70	15.0	>2.00	2,000	N	N	N	<20	50
JA0713C	58 53 53	135 8 47	1.50	5.00	10.0	2.00	1,500	N	N	N	20	150
JA0714C	59 8 48	135 14 40	1.00	.70	10.0	>2.00	1,000	N	N	N	<20	1,000
JA0715C	58 55 28	135 9 55	1.50	1.00	10.0	>2.00	1,000	N	N	N	100	1,500
JA0716C	58 57 43	135 10 18	3.00	3.00	10.0	2.00	1,500	100.0	5,000	N	100	700
JA0717C	58 58 59	135 10 21	5.00	10.00	15.0	1.50	2,000	7.0	700	N	150	50
JA0718C	59 0 18	135 11 0	1.00	1.50	7.0	>2.00	500	N	N	N	50	150
JA0719C	59 2 1	135 12 0	2.00	1.00	7.0	>2.00	500	50.0	7,000	N	20	70
JA0720C	59 24 15	135 0 15	1.50	.70	5.0	>2.00	700	N	N	N	<20	2,000
JA0721C	59 22 17	135 21 18	2.00	5.00	10.0	2.00	700	N	N	N	<20	150
JA0722C	59 20 46	135 21 22	1.00	2.00	7.0	>2.00	700	N	N	N	<20	1,500
JA0723C	59 1 30	135 23 58	5.00	.30	5.0	>2.00	300	<1.0	N	N	20	150
JA0724C	59 0 48	135 24 1	5.00	.50	10.0	>2.00	500	N	1,000	N	<20	5,000
JA0725C	58 59 25	135 23 58	30.00	.50	5.0	2.00	500	5.0	2,000	N	20	1,000
JA0726C	58 57 40	135 23 35	7.00	.20	7.0	2.00	500	2.0	1,500	N	<20	1,000
JA0727C	58 55 24	135 22 42	1.00	.30	10.0	>2.00	500	N	500	N	20	500
JA0728C	58 55 57	135 29 4	50.00	.20	3.0	2.00	200	5.0	5,000	N	<20	1,000
JA0729C	58 55 55	135 29 9	30.00	.50	2.0	.70	300	5.0	2,000	N	<20	700
JA0730C	58 55 1	135 28 10	30.00	.70	3.0	1.00	300	5.0	1,000	N	100	3,000
JA0731C	58 55 7	135 28 13	30.00	.30	2.0	.70	300	5.0	2,000	N	<20	1,500
JA0732C	58 56 27	135 18 41	2.00	1.50	10.0	>2.00	500	N	N	N	20	1,000
JA0733C	58 49 22	135 17 8	7.00	2.00	7.0	>2.00	500	N	N	N	50	5,000
JA0734C	58 35 24	134 51 59	7.00	.50	10.0	>2.00	500	2,000.0	20,000	>1,000	20	<50
JA0735C	58 34 36	134 45 3	1.50	1.50	5.0	>2.00	500	5.0	N	20	20	>10,000
JA0736C	58 32 44	134 47 8	1.50	5.00	10.0	>2.00	1,000	20.0	N	100	3,000	1,000
JA0737C	58 19 40	134 4 51	.50	.20	7.0	>2.00	700	N	N	<20	<20	1,000
JA0738C	58 18 25	134 8 40	1.50	3.00	10.0	>2.00	1,000	7.0	N	30	700	1,500
JA0739C	58 19 3	135 5 16	5.00	1.50	7.0	>2.00	500	N	500	N	100	5,000
JA0740C	58 18 59	135 5 26	2.00	1.50	7.0	>2.00	500	N	<500	N	50	10,000
JA0741C	58 17 33	135 6 10	10.00	1.50	5.0	>2.00	1,000	N	N	N	20	>10,000
JA0742C	58 17 59	135 5 51	1.50	2.00	7.0	>2.00	1,000	N	N	N	100	10,000
JA0743C	58 14 5	135 6 40	2.00	1.00	7.0	>2.00	700	N	N	N	50	2,000
JA0744C	58 13 13	135 9 19	1.00	1.50	7.0	>2.00	700	N	N	N	100	7,000
JA0745C	58 48 26	135 20 10	2.00	.70	20.0	1.00	300	2.0	N	N	500	>10,000
JA0746C	58 47 7	135 17 16	1.50	.30	10.0	1.00	500	N	N	N	2,000	>10,000
JA0747C	58 47 8	135 22 46	.70	.20	15.0	.15	300	<1.0	N	N	2,000	>10,000
JA0748C	58 45 5	135 23 8	1.00	.20	5.0	2.00	100	N	N	N	700	>10,000
JA0749C	58 41 38	135 28 59	20.00	.07	1.0	.20	50	N	2,000	N	<20	>10,000
JA0750C	58 43 15	135 29 14	10.00	.50	5.0	>2.00	100	<1.0	1,500	N	<20	>10,000
JA0803C	58 49 37	135 38 24	5.00	.07	1.0	.30	100	3.0	N	N	<20	>10,000
JA0806C	58 38 22	135 16 39	20.00	.05	2.0	.50	150	70.0	1,500	100	100	>10,000

TABLE 4.--Spectrographic analyses of heavy-mineral concentrates from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
JA0708C	N	N	N	30	300	10	700	10	100	70	<20
JA0709C	N	N	N	20	200	<10	500	70	50	50	N
JA0710C	N	N	N	30	500	<10	700	<10	70	100	<20
JA0711C	N	70	N	50	50	500	500	100	100	N	200
JA0712C	N	N	N	<10	70	200	200	20	200	N	N
JA0713C	N	N	N	30	100	1,000	100	N	<50	10	<20
JA0714C	N	N	N	20	100	500	1,000	30	150	<10	50
JA0715C	N	N	N	70	200	100	500	20	100	15	20
JA0716C	<2	N	N	100	100	150	300	N	50	70	100
JA0717C	2	N	N	50	200	15	700	N	<50	50	50
JA0718C	<2	N	N	10	200	150	1,000	<10	70	20	N
JA0719C	N	N	N	200	100	700	1,500	20	50	100	50
JA0720C	N	N	N	30	50	150	500	N	N	N	20
JA0721C	<2	N	N	20	500	150	1,000	50	<50	100	N
JA0722C	N	N	N	15	150	15	700	70	<50	10	<20
JA0723C	N	150	N	200	N	200	500	10	50	70	100
JA0724C	N	N	N	500	<20	200	300	<10	50	50	50
JA0725C	<2	N	N	700	50	2,000	N	N	N	200	200
JA0726C	N	N	N	300	20	300	200	10	<50	70	200
JA0727C	N	N	N	70	50	100	300	N	50	N	200
JA0728C	N	N	N	1,500	20	1,500	N	N	N	500	200
JA0729C	N	N	N	500	300	1,500	N	N	N	300	300
JA0730C	N	N	N	500	100	2,000	50	N	N	300	500
JA0731C	<2	N	N	700	50	1,500	N	N	N	500	200
JA0732C	<2	N	N	50	70	50	150	N	50	70	30
JA0733C	N	N	N	150	200	300	200	<10	70	100	70
JA0734C	<2	N	N	50	50	200	300	N	50	150	1,000
JA0735C	<2	N	N	70	50	20	70	<10	50	10	100
JA0736C	N	N	N	50	1,500	100	150	10	50	100	30
JA0737C	N	N	N	10	20	<10	1,000	30	200	<10	<20
JA0738C	N	N	N	15	500	20	700	<10	70	15	<20
JA0739C	N	N	N	100	100	100	500	20	50	50	30
JA0740C	<2	150	N	50	100	50	200	10	70	15	<20
JA0741C	N	N	100	200	70	200	200	<10	100	100	100
JA0742C	N	N	N	20	100	20	200	<10	100	10	<20
JA0743C	N	N	N	50	100	15	300	<10	50	15	20
JA0744C	N	N	N	30	150	10	500	<10	<50	10	20
JA0745C	<2	N	N	30	100	20	300	N	N	20	700
JA0746C	<2	N	N	10	100	10	200	N	50	N	N
JA0747C	<2	N	1,000	N	<20	20	700	N	N	10	20
JA0748C	<2	N	N	N	50	15	150	N	<50	<10	20
JA0749C	N	N	200	200	N	700	N	N	N	200	70
JA0750C	N	2,000	1,000	50	100	300	N	N	N	50	2,000
JA0803C	<2	N	200	30	<20	100	N	<10	N	10	1,500
JA0806C	N	N	100	200	N	150	N	N	N	100	1,500

TABLE 4.--Spectrographic analyses of heavy-mineral concentrates from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
JA0708C	N	30	70	<200	300	<100	1,000	N	>2,000	N
JA0709C	N	30	30	200	200	200	500	N	>2,000	N
JA0710C	N	50	50	200	300	<100	700	N	>2,000	N
JA0711C	N	30	50	<200	70	500	1,000	N	>2,000	200
JA0712C	N	10	100	N	300	N	2,000	N	>2,000	N
JA0713C	N	30	<20	200	200	N	300	N	>2,000	<200
JA0714C	N	30	100	<200	150	200	1,500	N	>2,000	200
JA0715C	N	20	70	200	200	N	700	N	>2,000	N
JA0716C	N	15	N	300	200	100	100	<500	2,000	N
JA0717C	N	30	N	200	200	100	150	N	1,500	<200
JA0718C	N	20	20	500	200	<100	300	N	>2,000	N
JA0719C	N	50	20	200	150	150	700	N	>2,000	200
JA0720C	N	50	<20	700	100	<100	700	N	>2,000	300
JA0721C	N	20	50	200	150	100	500	N	>2,000	<200
JA0722C	N	50	30	200	100	N	1,000	N	>2,000	<200
JA0723C	N	15	70	<200	100	200	1,000	N	>2,000	<200
JA0724C	N	10	N	500	100	N	300	N	>2,000	300
JA0725C	N	20	N	300	150	N	150	<500	1,000	N
JA0726C	N	15	N	700	100	N	200	N	>2,000	<200
JA0727C	N	15	N	700	150	200	300	N	>2,000	<200
JA0728C	N	20	N	300	70	N	200	500	300	N
JA0729C	N	10	N	200	70	N	50	2,000	100	N
JA0730C	N	20	N	300	100	N	150	1,000	150	N
JA0731C	N	15	N	200	70	N	70	1,000	200	N
JA0732C	N	15	20	500	150	N	300	500	>2,000	N
JA0733C	N	20	N	700	150	<100	300	N	>2,000	N
JA0734C	200	15	N	700	150	2,000	300	N	2,000	N
JA0735C	N	30	<20	1,000	200	100	500	N	>2,000	N
JA0736C	N	50	30	300	200	150	500	N	>2,000	N
JA0737C	N	30	100	N	300	N	1,500	N	>2,000	<200
JA0738C	N	50	30	300	300	<100	300	N	>2,000	N
JA0739C	N	20	20	500	200	<100	500	N	>2,000	N
JA0740C	N	10	30	700	150	200	300	700	>2,000	N
JA0741C	N	10	20	1,000	200	N	500	5,000	>2,000	N
JA0742C	N	15	20	1,000	200	100	700	N	>2,000	N
JA0743C	N	20	20	<200	200	<100	1,000	N	>2,000	200
JA0744C	N	30	700	500	300	N	700	N	>2,000	N
JA0745C	N	15	N	5,000	100	N	300	N	2,000	N
JA0746C	N	10	N	3,000	300	N	70	N	200	N
JA0747C	N	10	N	7,000	500	N	300	10,000	2,000	N
JA0748C	N	10	N	7,000	70	N	150	10,000	>2,000	N
JA0749C	N	N	N	2,000	<20	N	20	3,000	2,000	N
JA0750C	N	10	N	5,000	100	N	70	5,000	>2,000	N
JA0803C	N	N	N	7,000	<20	N	20	7,000	700	N
JA0806C	N	N	N	1,000	<20	N	200	1,000	>2,000	N

TABLE 4.--Spectrographic analyses of heavy-mineral concentrates from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Latitude	Longitude	Fe-pct. s	Mg-pct. s	Ca-pct. s	Ti-pct. s	Mn-ppm s	Ag-ppm s	As-ppm s	Au-ppm s	B-ppm s	Ba-ppm s
JA0808C	58 30 9	134 59 45	.70	1.00	5.0	>2.00	200	N	N	N	50	2,000
JA0811C	58 1 58	134 33 19	.70	.10	10.0	>2.00	200	N	N	N	200	>10,000
JA0812C	58 1 54	134 33 22	.20	.10	15.0	>2.00	300	N	N	N	70	1,000
JA0813C	58 2 35	134 35 55	.30	.10	10.0	>2.00	300	N	N	N	500	7,000
JA0814C	57 57 38	134 31 54	2.00	<.05	.1	.20	100	50.0	N	N	<20	>10,000

TABLE 4.--Spectrographic analyses of heavy-mineral concentrates from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Be-ppm s	Bi-ppm s	Cd-ppm s	Co-ppm s	Cr-ppm s	Cu-ppm s	La-ppm s	Mo-ppm s	Nb-ppm s	Ni-ppm s	Pb-ppm s
JA0808C	2	N	N	20	30	<10	100	N	<50	N	<20
JA0811C	N	N	N	20	30	<10	200	N	<50	N	<20
JA0812C	N	N	<50	N	50	<10	150	N	<50	N	20
JA0813C	N	N	N	N	70	<10	200	N	<50	N	150
JA0814C	<2	N	150	30	<20	30	N	20	N	30	1,000

TABLE 4.--Spectrographic analyses of heavy-mineral concentrates from the Juneau, Taku River, Atlin and Skagway quadrangles, Alaska, collected in 1983 and 1984.--Continued

Sample	Sb-ppm s	Sc-ppm s	Sn-ppm s	Sr-ppm s	V-ppm s	W-ppm s	Y-ppm s	Zn-ppm s	Zr-ppm s	Th-ppm s
JA0808C	N	15	N	700	100	100	200	N	>2,000	<200
JA0811C	N	15	N	2,000	100	N	300	N	>2,000	N
JA0812C	N	10	N	300	70	N	500	500	>2,000	300
JA0813C	N	20	N	500	100	<100	500	N	>2,000	<200
JA0814C	<200	N	N	5,000	<20	N	<20	20,000	20	N